# NAAC - SSR IV CYCLE

## Criterion I - Curricular Aspects

### 1.1 Curriculum Design & Development

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements
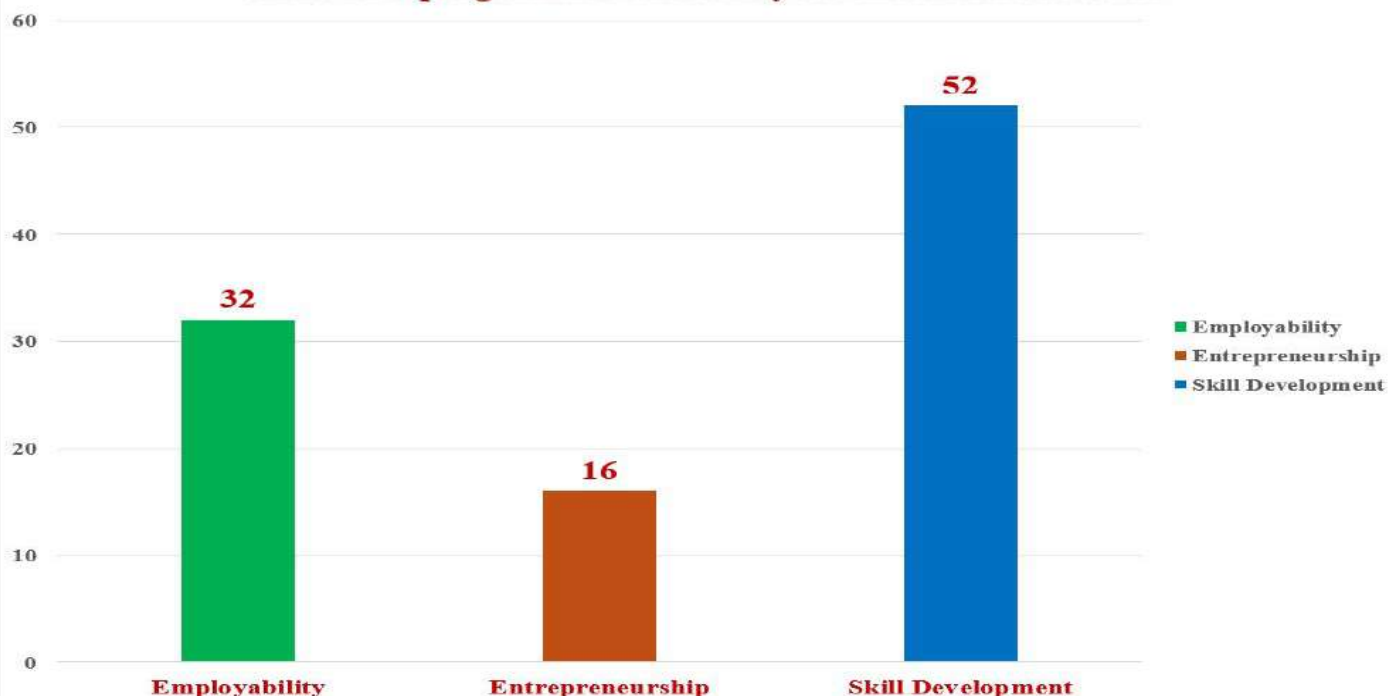
**TOTAL NUMBER OF PROGRAMS : 31**

**TOTAL NUMBER OF COURSES OFFERD BY THE COLLEGE : 2431**

**TOTAL NUMBER OF COURSES RELATED TO 1.1.2 : 2015**

1.1.2: The programmes offered by the institution focus on



- Employability
- Entrepreneurship
- Skill Development

Employability: 32
Entrepreneurship: 16
Skill Development: 52

| Criterion I - Curricular Aspects ☐ | | 1.1 Curriculum Design & Development | |
|---|---|---|---|

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

| S.No | NAME OF THE PROGRAM | RGEULATION NO | PAGE NO |
|---|---|---|---|
| 1 | M.Sc. CHEMISTRY | R22 | 1-3 |
| | | R20 | 4-9 |
| | | R17 | 10-17 |
| 2 | M.SC COMPUTER SCIENCE | R22 | 18-20 |
| | | R20 | 21-26 |
| | | R17 | 27-33 |
| 3 | M.Sc. COMPUTATIONAL DATA SCIENCES | R22 | 34-37 |
| | | R20 | 38-44 |
| 4 | MASTER OF COMMERCE | R20 | 45-54 |
| | | R17 | 55-61 |
| 5 | MA ENGLISH | R20 | 62-67 |
| | | R17 | 68-76 |
| 6 | M.Sc. MATHEMATICS | R22 | 77-81 |
| | | R20 | 82-89 |
| | | R17 | 90-94 |
| 7 | MASTER OF BUSINESS ADMINISTRATION (MBA) | R22 | 95-99 |
| | | R20 | 100-110 |
| | | R17 | 111-121 |
| 8 | MASTER OF COMPUTER APPLICATIONS(MCA) | R22 | 122-125 |
| | | R20 | 126-131 |
| | | R17 | 132-141 |
| 9 | M.Sc. PHYSICS | R22 | 142-144 |
| | | R20 | 145-151 |
| | | R17 | 152-156 |

| S.No | NAME OF THE PROGRAM | RGEULATION NO | PAGE NO |
|------|---------------------|---------------|---------|
| 10 | BSC AIML & MSDS | R20 | 157-172 |
| 11 | BBA (GENERAL) | R20 | 173-184 |
|    |                | R15 | 185-191 |
| 12 | BBA BUSINESS ANALYTICS | R20 | 192-196 |
|    |                | R15 | 197-200 |
| 13 | BSC (BZC) BOTONY | R20 | 201-206 |
|    |                | R15 | 207-211 |
| 14 | BSC (MPC,BZC) CHEMISTRY | R20 | 212-216 |
|    |                | R15 | 217-220 |
| 15 | BCOM(TPP) | R20 | 221-228 |
|    |                | R15 | 235-240 |
| 16 | BCOM( Accounts anf Finance) | R20 | 221-228 |
|    |                | R15 | 235-240 |
| 17 | BCOM( Business Process Management) | R20 | 221-228 |
|    |                | R15 | 235-240 |
| 18 | BCOM(General) | R20 | 228-234 |
|    |                | R15 | 240-245 |
| 19 | BCOM(Computer Applications) | R20 | 228-234 |
|    |                | R15 | 240-245 |
| 20 | BCOM(Banking, Financial Services and Insurance ) | R20 | 228-234 |
|    |                | R15 | 240-245 |

**NAAC - SSR IV CYCLE**

**Criterion I - Curricular Aspects**          **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM: M.Sc. CHEMISTRY**
**REGULATION -22**

| S.NO | Course Code | Name of the Course | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|------|------|------|------|------|
| 1 | 22CH1T1 | General Chemistry | M.Sc. Chemistry | 2022-23 | **Employability :** The context knowledge to secure a teaching job as well as in metal alloy industry, cement ,manufactures, chemical manufacturers. |
| 2 | 22CH1T2 | Inorganic Chemistry | M.Sc. Chemistry | 2022-23 | **Employability / Skill Development :** The context knowledge to secure a teaching job, paint, pharma industry. |
| 3 | 22CH1T3 | Introductory Organic Chemistry | M.Sc. Chemistry | 2022-23 | **Employability / Enterpreneurship :** The context knowledge to secure a teaching job, paint, pharma industry, food & beverages . |
| 4 | 22CH1T4 | Physical Chemistry | M.Sc. Chemistry | 2022-23 | **Employability :** The context knowledge to secure a teaching job, paint, pharma industry, food & beverages and can start own industry |
| 5 | 22CH1L1 | Inorganic Chemistry Practical | M.Sc. Chemistry | 2022-23 | **Enterpreneurship / Skill Development :** The context knowledge to secure a teaching job, paint, pharma industry, food & beverages  and can start own industry |
| 6 | 22CH1L2 | Organic chemistry Practical-I | M.Sc. Chemistry | 2022-23 | **Employability / Enterpreneurship :** Lab courses are intended to impart the skills in the students to make them job reading |
| 7 | 22CH2T1 | Advanced Inorganic Chemistry | M.Sc. Chemistry | 2022-23 | **Employability / Enterpreneurship :** Lab courses are intended to impart the skills in the students to make them job reading and to start own industry knowledge gained through own industry |
| 8 | 22CH2T2 | Adavanced Organic Chemistry | M.Sc. Chemistry | 2022-23 | **Employability:** The content knowledge will help the students to secure teaching jobs. |

| S.NO | Course Code | Name of the Course | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 9 | 22CH2T3 | Advanced Physical Chemistry | M.Sc. Chemistry | 2022-23 | **Employability:** The Content knowledge helps to secure a teaching job as well as in metal alloy industry, cement manufactures, chemical manufacturers etc. |
| 10 | 22CH2E1 | Molecular Spectroscopy | M.Sc. Chemistry | 2022-23 | **Employability / Enterpreneurship :** The Content knowledge will be useful to secure a teaching job, paint industry, pharma industry, food & beverages etc. |
| 11 | 22CH2E2 | Instrumental methods of Analysis | M.Sc. Chemistry | 2022-23 | **Enterpreneurship:** The Content knowledge will help student to secure a teaching job |
| 12 | 22CH2E3 | Analysis of foods & Drugs | M.Sc. Chemistry | 2022-23 | **Skill Development :** Lab courses are intended to impart the skills in the students to make them job ready |
| 13 | 22CH2L1 | Physical chemistry Practical | M.Sc. Chemistry | 2022-23 | **Skill Development :** Lab courses are intended to impart the skills in the students to make them job ready |
| 14 | 22CH2L2 | Organic chemistry Practical-II | M.Sc. Chemistry | 2022-23 | **Employability:** The content knowledge will help the students to securing teaching jobs. |

**Criterion I - Curricular Aspects**     **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM: M.Sc. CHEMISTRY**
**REGULATION -20**

| S.NO | Course Code | Name of the Course | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | 20CH1T1 | General Chemistry | M.Sc. Chemistry | 2020-21 | **Employability** : The content knowledge will help the students to securing teaching jobs. |
| 2 | 20CH1T2 | Inorganic Chemistry-I | M.Sc. Chemistry | 2020-21 | **Employability :**The context knowledge to secure a teaching job as well as in metal alloy industry, cement ,manufactures, chemical manufacturers. |
| 3 | 20CH1T3 | Organic Chemistry-I | M.Sc. Chemistry | 2020-21 | **Employability :**The context knowledge to secure a teaching job, paint, pharma industry, food & beverages . |
| 4 | 20CH1T4 | Physical Chemistry-I | M.Sc. Chemistry | 2020-21 | **Employability :**The context knowledge to secure a teaching job |
| 5 | 20CH1L1 | Inorganic Chemistry | M.Sc. Chemistry | 2020-21 | **Skill development:** Lab courses are intended to impart the skills in the students to make them job reading |

| S.NO | Course Code | Name of the Course | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 6 | 20CH1L2 | Organic chemistry lab-I | M.Sc. Chemistry | 2020-21 | **Skill development:** Lab courses are intended to impart the skills in the students to make them job reading |
| 7 | 20CH2T1 | Organic Spectroscopy | M.Sc. Chemistry | 2020-21 | **Skill development:** The content knowledge will help the students to securing teaching jobs. |
| 8 | 20CH2T2 | Inorganic Chemistry - II | M.Sc. Chemistry | 2020-21 | **Skill development:** The context knowledge to secure a teaching job as well as in metal alloy industry, cement ,manufactures, chemical manufacturers. |
| 9 | 20CH2T3 | Organic Chemistry - II | M.Sc. Chemistry | 2020-21 | **Skill development:** The context knowledge to secure a teaching job, paint, pharma industry, food & beverages . |
| 10 | 20CH2T4 | Physical Chemistry - II | M.Sc. Chemistry | 2020-21 | **Skill development:** The context knowledge to secure a teaching job |

| S.NO | Course Code | Name of the Course | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|-------------|--------------------|--------------------|----------------------|----------------------------------------------------------------------------------------------|
| 11 | 20CH2L1 | Organic Chemistrylab-II | M.Sc. Chemistry | 2020-21 | **Skill development:** Lab courses are intended to impart the skills in the students to make them job reading |
| 12 | 20CH2L2 | Physical Chemistry | M.Sc. Chemistry | 2020-21 | **Skill development:** Lab courses are intended to impart the skills in the students to make them job reading |
| 13 | 20 OECH | Chemistry in daily life | M.Sc. Chemistry | 2020-21 | **Skill development:** Lab courses are intended to impart the skills in the students to make them job reading |
| 14 | 20CH3L1 | Organic Preparations | M.Sc. Chemistry | 2020-21 | **Skill development:** The content knowledge will help the students to securing teaching jobs. |
| 15 | 20CH3L2 | Mixture Analysis | M.Sc. Chemistry | 2020-21 | **Skill development:** The context knowledge to secure a teaching job as well as in metal alloy industry, cement ,manufactures, chemical manufacturers. |

| S.NO | Course Code | Name of the Course | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|-------------|--------------------|--------------------|--------------------|--------------------------------------------------------------|
| 16 | 20CH3T1 | Advanced Organic Spectros | M.Sc. Chemistry | 2020-21 | **Employability/Enterpreneurship :**The context knowledge to secure a teaching job, paint, pharma industry, food & beverages  and can start own industry |
| 17 | 20CH3T2 | Organic Reactions& Mechanisms | M.Sc. Chemistry | 2020-21 | **Employability/Enterpreneurship : T**he context knowledge to secure a teaching job, paint, pharma industry, food & beverages . |
| 18 | 20CH3T3 | Organic Synthesis | M.Sc. Chemistry | 2020-21 | **Enterpreneurship / Skill Development :** The context knowledge to secure a teaching job, paint, pharma industry, food & beverages . |
| 19 | 20CH3T4 | Chemistry of Natural Products | M.Sc. Chemistry | 2020-21 | **Employability / Skill Development :** The context knowledge to secure a teaching job, paint, pharma industry, food & beverages  and can start own industry |
| 20 | 20OET1 | Chemistry in Daily Life | M.Sc. Chemistry | 2020-21 | **Employability :** The context knowledge to secure a teaching job as well as in metal alloy industry, cement ,manufactures, chemical manufacturers. |

| S.NO | Course Code | Name of the Course | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|-------------|--------------------|--------------------|---------------------|---------------------------------------------------------------------------------------------|
| 21 | 20CH4L1 | Organic Estimations | M.Sc. Chemistry | 2020-21 | **Employability / Skill Development :** The context knowledge to secure a teaching job, paint, pharma industry, food & beverages and can start own industry |
| 22 | 20CH4L2 | Project Work | M.Sc. Chemistry | 2020-21 | **Employability / / Skill Development :** The content knowledge will help the students to securing teaching jobs. |
| 23 | 20CH4M1 | MOOCS – Organic Chemistry - I | M.Sc. Chemistry | 2020-21 | **Employability / / Skill Development :** The content knowledge will help the students to securing teaching jobs. |
| 24 | 20CH4T1A | Hetero Cyclic Chemistry | M.Sc. Chemistry | 2020-21 | **Employability / / Skill Development :** The content knowledge will help the students to securing teaching jobs. |
| 25 | 20CH4T1 | Green Chemistry | M.Sc. Chemistry | 2020-21 | **Employability / / Skill Development :** The content knowledge will help the students to securing teaching jobs. |
| 26 | 20CH4T2 | Techniques for Modern Industrial Applications | M.Sc. Chemistry | 2020-21 | **Employability / / Skill Development :** The content knowledge will help the students to securing teaching jobs. |
| 27 | 20CH4T2A | Nano Chemistry | M.Sc. Chemistry | 2020-21 | **Employability / / Skill Development :** The content knowledge will help the students to securing teaching jobs. |
| 28 | 20CH4T3 | Organo Metallic Reagents | M.Sc. Chemistry | 2020-21 | **Employability / / Skill Development :** The content knowledge will help the students to securing teaching jobs. |

**NAAC - SSR IV CYCLE**

**Criterion I - Curricular Aspects**                              **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM: M.Sc. CHEMISTRY
REGULATION -17**

| S.NO | Course Code | Name of the Course | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|-------------|--------------------|---------------------|----------------------|---------------------------------------------------------------------------------------------|
| 1 | CH1T1 | General Chemistry  - I | M.Sc. Chemistry | 2017-18 | **Employability :** The content knowledge will help the students to securing teaching jobs. |
| 2 | CH1T2 | Inorganic Chemistry - I | M.Sc. Chemistry | 2017-18 | **Employability :** The context knowledge to secure a teaching job as well as in metal alloy industry, cement ,manufactures, chemical manufacturers. |
| 3 | CH1T3 | Organic Chemistry - I | M.Sc. Chemistry | 2017-18 | **Employability :** The context knowledge to secure a teaching job, paint, pharma industry, food & beverages . |
| 4 | CH1T4 | Physical Chemistry - I | M.Sc. Chemistry | 2017-18 | **Employability :** The context knowledge to secure a teaching job |
| 5 | CH1L1 | Inorganic Chemistry | M.Sc. Chemistry | 2017-18 | **Skill development:** Lab courses are intended to impart the skills in the students to make them job reading |

| S.NO | Course Code | Name of the Course | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|-------------|--------------------|--------------------|--------------------|----------------------------------------------------------------------------------------------|
| 6 | CH1L2 | Organic Chemistry | M.Sc. Chemistry | 2017-18 | **Skill development:** Lab courses are intended to impart the skills in the students to make them job reading |
| 7 | CH1L3 | Physical Chemistry | M.Sc. Chemistry | 2017-18 | **Skill development:** Lab courses are intended to impart the skills in the students to make them job reading |
| 8 | CH2T1 | General Chemistry – II | M.Sc. Chemistry | 2017-18 | **Skill development:** The content knowledge will help the students to securing teaching jobs. |
| 9 | CH2T2 | Inorganic Chemistry – II | M.Sc. Chemistry | 2017-18 | **Skill development:** The context knowledge to secure a teaching job as well as in metal alloy industry, cement ,manufactures, chemical manufacturers. |
| 10 | CH2T3 | Organic Chemistry – II | M.Sc. Chemistry | 2017-18 | **Skill development:** The context knowledge to secure a teaching job, paint, pharma industry, food & beverages . |

| S.NO | Course Code | Name of the Course | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|-------------|--------------------|--------------------|--------------------|--------------------------------------------------------------------------|
| 11 | CH2T4 | Physical Chemistry – II | M.Sc. Chemistry | 2017-18 | **Skill development:** The context knowledge to secure a teaching job |
| 12 | CH2L1 | Inorganic Chemistry | M.Sc. Chemistry | 2017-18 | **Skill development:** Lab courses are intended to impart the skills in the students to make them job reading |
| 13 | CH2L2 | Organic Chemistry | M.Sc. Chemistry | 2017-18 | **Skill development:** Lab courses are intended to impart the skills in the students to make them job reading |
| 14 | CH2L3 | Physical Chemistry | M.Sc. Chemistry | 2017-18 | **Skill development:** Lab courses are intended to impart the skills in the students to make them job reading |
| 15 | CH3T1 | Organic Spectroscopy | M.Sc. Chemistry | 2017-18 | **Employability :** The content knowledge will help the students to securing teaching jobs. |

| S.NO | Course Code | Name of the Course | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 16 | CH3T2 | Organic Reactions, Mechanisms and Green Chemistry | M.Sc. Chemistry | 2017-18 | **Employability :** The context knowledge to secure a teaching job as well as in metal alloy industry, cement ,manufactures, chemical manufacturers. |
| 17 | CH3T3A | Organic Synthesis | M.Sc. Chemistry | 2017-18 | **Employability / Entrepreneurship** : The context knowledge to secure a teaching job, paint, pharma industry, food & beverages  and can start own industry |
| 18 | CH3T3B | Asymmetric synthesus, phosphorus & sulphur reagents, synthetic polymers, biomolecules & Bio organic chemistry | M.Sc. Chemistry | 2017-18 | **Employability :** The context knowledge to secure a teaching job, paint, pharma industry, food & beverages . |
| 19 | CH3T4A | Environmental Chemistry and Analysis | M.Sc. Chemistry | 2017-18 | **Employability :** The context knowledge to secure a teaching job, paint, pharma industry, food & beverages . |
| 20 | CH3T4B | Organo metallic chemistry, Nano chemistry and Natural Products | M.Sc. Chemistry | 2017-18 |  **Employability / Entrepreneurship :** The context knowledge to secure a teaching job, paint, pharma industry, food & beverages  and can start own industry |

| S.NO | Course Code | Name of the Course | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|-------------|--------------------|--------------------|--------------------|-------------------------------------------------------------------------------------------|
| 21 | CH3L1 | Organic Preparations | M.Sc. Chemistry | 2017-18 | **Skill development:** The context knowledge to secure a teaching job as well as in metal alloy industry, cement ,manufactures, chemical manufacturers. |
| 22 | CH3L2 | Mixture Analysis | M.Sc. Chemistry | 2017-18 | **Skill development:** The context knowledge to secure a teaching job as well as in metal alloy industry, cement ,manufactures, chemical manufacturers. |
| 23 | CH3L3 | Green Organic Preparations | M.Sc. Chemistry | 2017-18 | **Skill development:** The context knowledge to secure a teaching job as well as in metal alloy industry, cement ,manufactures, chemical manufacturers. |
| 24 | AOC01 | Organo metallic chemistry & Metal mediated organic synthesis | M.Sc. Chemistry | 2017-18 | **Employability / Entrepreneurship :** The context knowledge to secure a teaching job, paint, pharma industry, food & beverages and can start own industry |

**15**

| S.NO | Course Code | Name of the Course | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|-------------|--------------------|--------------------|--------------------|------------------------------------------------------|
| 25 | CH4T1 | Advanced Organic Spectroscopy | M.Sc. Chemistry | 2017-18 | **Employability :**The content knowledge will help the students to securing teaching jobs. |
| 26 | CH4T2 | Organic Reactions & Mechanisms | M.Sc. Chemistry | 2017-18 | **Employability / Entrepreneurship :** The context knowledge to secure a teaching job as well as in metal alloy industry, cement ,manufactures, chemical manufacturers. |
| 27 | CH4T3A | Green Chemistry | M.Sc. Chemistry | 2017-18 | **Employability / Entrepreneurship :** The context knowledge to secure a teaching job, paint, pharma industry. |
| 28 | CH4T3B | Antibiotics, Drugs, Vitamins & Steroid Harmones | M.Sc. Chemistry | 2017-18 | **Employability / Entrepreneurship :** The context knowledge to secure a teaching job, paint, pharma industry, food & beverages . |

| S.NO | Course Code | Name of the Course | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 29 | CH4T4A | Techniques for Modern Industrial Applications | M.Sc. Chemistry | 2017-18 | **Employability / Entrepreneurship :** The context knowledge to secure a teaching job, paint, pharma industry, food & beverages and can start own industry |
| 30 | CH4T4B | Separation Techniques & Electro Analytical Techniques | M.Sc. Chemistry | 2017-18 | **Employability :** The context knowledge to secure a teaching job, paint, pharma industry, food & beverages and can start own industry |
| 31 | CH4L1 | Paper And Thin Layer Chromatography Techniques | M.Sc. Chemistry | 2017-18 | **Employability / Skill development :** Lab courses are intended to impart the skills in the students to make them job reading |
| 32 | CH4L2 | Project Work | M.Sc. Chemistry | 2017-18 | **Employability / Skill development :** Lab courses are intended to impart the skills in the students to make them job reading and to start own industry knowledge gained through own industry |

PARVATHANENI BRAHMAYYA
SIDDHARTHA COLLEGE OF ARTS & SCIENCE
Siddhartha Nagar, VIJAYAWADA - 520 010, Andhra Pradesh
Autonomous, NAAC A+ Grade, ISO Certified Institution

**NAAC - SSR IV CYCLE**

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : M.Sc. COMPUTER SCIENCE**

**REGULATION -22**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Problem Solving Using Python Programming | 22CS1T1 | M.Sc. Computer Science | 2022-23 | Employability and skill development in the Field of Information Technology by imparting Skills in Python Programming |
| 2 | Database Management Systems | 22CS1T2 | M.Sc. Computer Science | 2022-23 | Enhance employability and skill development in the Field of Information Technology by acquiring knowledge in Database Management. Promote entrepreneurship and practical skills through hands-on workshops in Database Technologies. |
| 3 | Formal languages and Automata Theory | 22CS1T3 | M.Sc. Computer Science | 2022-23 | Boost employability and skills in IT through knowledge in Formal Languages and Automata Theory. Promote entrepreneurship with hands-on Automata Theory workshops. |
| 4 | Operating systems | 22CS1T4 | M.Sc. Computer Science | 2022-23 | Enhance employability and skill development in IT by acquiring knowledge in Operating Systems nd practical skills through hands-on workshops in Operating Systems. |
| 5 | Problem Solving Using Python Programming lab | 22CS1L1 | M.Sc. Computer Science | 2022-23 | Employability in the Field of Information Technology by imparting Skills in C Programming. |
| 6 | Database Management Systems Lab | 22CS1L2 | M.Sc. Computer Science | 2022-23 | Employability in the Field of Information Technology and imparting Knowledge by conducting Hands on workshops in SQL & PL/SQL. |
| 7 | Computer Networks | 22CS2T1 | M.Sc. Computer Science | 2022-23 | Employability in the Field of Information Technology and Teaching & Networking Institutes and imparting knowledge by providing Hands on Training in Networking. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 8 | Data Structures | 22CS2T2 | M.Sc. Computer Science | 2022-23 | Employability in the Field of Information Technology by acquiring knowledge in the application of Data Structures |
| 9 | Web Technologies | 22CS2T3 | M.Sc. Computer Science | 2022-23 | Employability in the Field of Information Technology and imparting knowledge by providing Hands on Training in Web Technologies. |
| 10 | Software Engineering | 22CS2E1 | M.Sc. Computer Science | 2022-23 | Employability in the Field of Information Technology and imparting knowledge by providing Hands on Training in Software Engineering |
| 11 | Mobile Applications | 22CS2E2 | M.Sc. Computer Science | 2022-23 | Employability in the Field of Information Technology and imparting knowledge by providing Hands on Training in Mobile applications |
| 12 | Unix Programming | 22CS2E3 | M.Sc. Computer Science | 2022-23 | Employability in the Field of Information Technology and imparting knowledge by providing Hands on Training in Unix Programing |
| 13 | Data Structures Lab | 22CS2L1 | M.Sc. Computer Science | 2022-23 | Employability in the Field of Information Technology and imparting Knowledge by conducting Hands on workshops in Data Structures. |
| 14 | Web Technologies Lab | 22CS2L2 | M.Sc. Computer Science | 2022-23 | Employability in the Field of Information Technology and imparting knowledge by providing Hands on Training in Web Technologies |

**NAAC - SSR IV CYCLE**

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : M.Sc. COMPUTER SCIENCE**

**REGULATION -20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Problem Solving Using Python Programming | 20CS1T1 | M.Sc. Computer Science | 2020-21 | Employability and skill development in the Field of Information Technology by imparting Skills in Python Programming |
| 2 | Computer Organization | 20CS1T2 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology by providing Hands on Training on Hardware Technologies. |
| 3 | Software Engineering | 20CS1T3 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology and imparting knowledge by providing Hands on Training in Software Engineering Tools & Methodologies. |
| 4 | Database Management Systems | 20CS1T4 | M.Sc. Computer Science | 2020-21 | Employability and skill development in the Field of Information Technology by acquiring knowledge in Database Management and imparting Knowledge by conducting Hands on workshops in Database Technologies. |
| 5 | Theory of Computation | 20CS1T5 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology by training in providing implementations |
| 6 | Problem Solving Using Python ProgrammingLab | 20CS1L1 | M.Sc. Computer Science | 2020-21 | Employability and skill development in the Field of Information Technology by imparting Skills in Python Programming |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|---------------------------------------------------------------------------------------------|
| 7 | DBMS Lab | 20CS1L2 | M.Sc. Computer Science | 2020-21 | Employability and skill development in the Field of Information Technology by acquiring knowledge in Database Management and imparting Knowledge by conducting Hands on workshops in Database Technologies. |
| 8 | Seminar | 20CS1S1 | M.Sc. Computer Science | 2020-21 | Skill development and Employability in the Field of Information Technology and Teaching. |
| 9 | Computer Networks | 20CS2T1 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology and Teaching & Networking Institutes and imparting knowledge by providing Hands on Training in Networking. |
| 10 | Data Structures | 20CS2T2 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology by acquiring knowledge in the application of Data Structures. |
| 11 | Web Technologies | 20CS2T3 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology and imparting knowledge by providing Hands on Training in Web Technologies. |
| 12 | Operating Systems | 20CS2T4 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology by organizing various workshops on OS Installation and Maintenance. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 13 | Computational Mathematics | 20OE02 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology and imparting knowledge by providing Hands on computational Mathematics |
| 14 | Computer Networks &Operating Systems Lab | 20CS2L1 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology and Teaching & Networking Institutes and imparting knowledge by providing Hands on Training in Networking. |
| 15 | Data Structures Lab | 20CS2L2 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology by acquiring knowledge in the application of Data Structures |
| 16 | Technical Report Writing | 20CS2T5 | M.Sc. Computer Science | 2020-21 | Skill development in the field of Information Technology enhances employability by fostering the ability to communicate research findings effectively, as well as by improving critical thinking, problem-solving, and documentation skills. |
| 17 | Internet of Things (IoT) | 20CS3T1 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology / Hardware Technology and imparting Knowledge by providing Hands on Training on the Applications of Internet of Things. |
| 18 | Cryptography & Network | 20CS3T2 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology and imparting Knowledge by providing training to develop Cryptography & Network Security Algorithms. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 19 | Design & Analysis of Al | 20CS3T3 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology and Teaching. |
| 20 | Data Mining Techniques | 20CS3T4 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on Data Mining Technologies. |
| 21 | English Presentation and soft skills | 20OE05 | M.Sc. Computer Science | 2020-21 | English Communication Skills |
| 22 | Web Technologies Lab | 20CS3L1 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology and imparting knowledge by providing Hands on Training in Web Technologies. |
| 23 | Data Mining Lab | 20CS3L2 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on Data Mining Technologies. |
| 24 | Block Chain & its applications (MOOCS) | 20CS4M1 | M.Sc. Computer Science | 2020-21 | MOOCs (Massive Open Online Courses) certifications can be highly beneficial for enhancing employability in the field of Information Technology |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 25 | Big Data and Analytics Lab | 20CS4L1 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on Big Data and Analytics Technologies. |
| 26 | Big Data and Analytics | 20CS4T1 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on Big Data and Analytics Technologies. |
| 27 | Artificial Intelligence & Machine Learning | 20CS4T2 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology and imparting Knowledge by training in AI and ML tools |
| 29 | Cyber Security | 20CS4T3 | M.Sc. Computer Science | 2020-21 | Employability in the Field of Information Technology and imparting Knowledge by training in AWS and other platforms. |
| 30 | Project Work | 20CS4P1 | M.Sc. Computer Science | 2020-21 | Skill Development and Employability |

**Criterion I - Curricular Aspects**                 **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : M.Sc. COMPUTER SCIENCE**

**REGULATION -17**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|-------------------|-------------|---------------------|---------------------|-----------------------------------------------------------------------------------|
| 1 | OBJECT ORIENTED PROGRAMMING | CS1T1 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology by providing Hands on Workshops on Object Oriented Technologies |
| 2 | COMPUTER ORGANIZATION | CS1T2 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology by providing Hands on Training on Hardware Technologies. |
| 3 | DISCRETE MATHEMATICAL STRUCTURES | CS1T3 | M.Sc. Computer Science | 2017-18 | Employability in Teaching & Software Industries |
| 4 | DATABASE MANAGEMENT SYSTEMS | CS1T4 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology by acquiring knowledge in Database Management and imparting Knowledge by coducting Hands on workshops in Database Technologies. |
| 5 | DATA STRUCTURES | CS1T5 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology by acquiring knowledge in the application of Data Structures |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 6 | DATA STRUCTURES LAB | CS1L1 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology and imparting Knowledge by coducting Hands on workshops in Data Structures. |
| 7 | DBMS LAB | CS1L2 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology by acquiring knowledge in Database Management and imparting Knowledge by coducting Hands on workshops in Database Technologies. |
| 8 | SEMINAR | CS1S1 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology and Teaching. |
| 9 | COMPUTER NETWORKS | CS2T1 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology and Teaching & Newoking Institutes and imparting knowledge by proving Hands on Training in Networking. |
| 10 | OPERATIONS RESEARCH | CS2T2 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology and other domains. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|-------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 11 | THEORY OF COMPUTATION | CS2T3 | M.Sc. Computer Science | 2017-18 | Employability in Compiler Design and Natural Language Processing. |
| 12 | SOFTWARE ENGINEERING | CS2T4 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology and imparting knowledge by proving Hands on Training in Software Engineering Tools & Methodologies. |
| 13 | OPERATING SYSTEMS | CS2T5 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology by organizing various workshop on OS Installation and Maintenance |
| 14 | SOFTWARE ENGINEERING LAB | CS2L1 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology & Networking and imparting knowledge by providing Hands on Training on Data Flow Diagrams,ER-Diagrams and UML Diagrams. |
| 15 | COMPUTER NETWORKS & OPERATING SYSTEMS LAB | CS2L2 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology & Networking and imparting knowledge by providing Hands on Training on OS installation and Networking. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 16 | COMMUNICATION SKILLS | GE01 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology / Teaching and imparting Knowledge by providing Training on communication skills |
| 17 | INTERNET OF THINGS | CS3T1 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology / Hardware Technology and and imparting Knowledge by providing Hands on Training on the Applications of Internet of Things. |
| 18 | DESIGN & ANALYSIS OF ALGORITHMS | CS3T2 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology and Teaching. |
| 19 | DATA WAREHOUSING & DATA MINING | CS3T3 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology and imparting knowledge by proving Hands on Training on Data Mining Tools. |
| 20 | WEB TECHNOLOGIES | CS3T4 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology and imparting knowledge by proving Hands on Training in Web Technologies. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|--------------------|-----------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 21 | MOBILE COMPUTING | CS3T5 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on Distributed Database Technologies. |
| 22 | WEB TECHNOLOGIES LAB | CS3L1 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology and Teaching & Neworking Institutes and imparting knowledge by proving Hands on Training in Networking. |
| 23 | DATA MINING LAB | CS3L2 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on various Software Testing Tools |
| 24 | MINI PROJECT | CS3P1 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology and and imparting Knowledge by providing Hands on Training on Mobile Technologies and Mobile Networking. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 25 | CLOUD COMPUTING | CS4T1 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology by and imparting knowledge by organizing various Hands on workshop on Cloud Services. |
| 26 | ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | CS4T2 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology. |
| 27 | BIG DATA & ANALYTICS | CS4T4 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on .Net Frame Work. |
| 28 | BIG DATA & ANALYTICS LAB | CS4L2 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on Data Science Technologies. |
| 29 | Project Work | CS4P1 | M.Sc. Computer Science | 2017-18 | Employability in the Field of Information Technology and imparting Knowledge by providing Internshipa or Hands on Training on Projects. |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

NAME OF THE PROGRAM : M.Sc. COMPUTATIONAL DATA SCIENCE

REGULATION -22

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | DATA STRUCTURES | 22DS1T1 | M.Sc(CDS) | 2022-23 | Implement and optimize data structures to solve complex computational problems, developing critical thinking and coding skills essential for software development and technical entrepreneurship. |
| 2 | OBJECT ORIENTED PROGRAMMING | 22DS1T2 | M.Sc(CDS) | 2022-23 | Design and develop object-oriented applications to enhance coding proficiency and software design skills, critical for software engineering roles and tech-focused entrepreneurial ventures. |
| 3 | ADVANCED DATABASE MANAGEMENT SYSTEMS | 22DS1T3 | M.Sc(CDS) | 2022-23 | Design and manage complex database systems to develop expertise in data storage, retrieval, and optimization, crucial for careers in database administration and data-driven business solutions. |
| 4 | DATA MINING TECHNIQUES | 22DS1T4 | M.Sc(CDS) | 2022-23 | Apply data mining techniques to extract valuable insights from large datasets, honing skills in analytical thinking and data-driven decision-making essential for careers in data science and business intelligence. |
| 5 | PERSONALITY DEVELOPMENT THROUGH LIFE ENLIGHTENMENT SKILLS | 22PG101 | M.Sc(CDS) | 2022-23 | Developing personal and professional skills such as self-awareness, motivation, effective communication, leadership, teamwork, emotional intelligence, stress management, and holistic growth, to enhance employability and entrepreneurial capabilities. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 6 | DATA STRUCTURES LAB | 22DS1L1 | M.Sc(CDS) | 2022-23 | Develop and test various data structures through hands-on lab exercises to build practical problem-solving skills and coding expertise essential for software development and tech innovation. |
| 7 | OBJECT ORIENTED PROGRAMMING LAB | 22DS1L2 | M.Sc(CDS) | 2022-23 | Create and refine object-oriented software through lab projects to develop practical coding skills and design expertise, crucial for roles in software engineering and tech startups. |
| 8 | ESSENTIALS OF STATISTICS FOR DATA SCIENCE USING R | 22DS2T1 | M.Sc(CDS) | 2022-23 | Apply statistical methods and data analysis techniques using R to derive actionable insights, enhancing skills in data science crucial for analytical roles and data-driven business ventures. |
| 9 | MACHINE LEARNING | 22DS2T2 | M.Sc(CDS) | 2022-23 | Develop and deploy machine learning models to solve real-world problems, building expertise in AI and predictive analytics crucial for data science careers and innovative tech solutions. |
| 10 | WEB TECHNOLOGIES | 22DS2T3 | M.Sc(CDS) | 2022-23 | Design and implement interactive web applications using modern technologies, developing practical skills in web development essential for tech careers and digital entrepreneurship. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 11 | DESIGN & ANALYSIS OF ALGORITHMS | 22DS2E2 | M.Sc(CDS) | 2022-23 | Develop and analyze efficient algorithms to solve complex problems, honing skills in computational thinking and optimization crucial for software development and technology innovation. |
| 12 | Research Methodology & Intellectual Property Rights(IPR) | 22PG201 | M.Sc(CDS) | 2022-23 | Understanding research methodologies, designing and conducting research, data analysis, report writing, and knowledge of intellectual property rights to enhance employability, foster innovation, and develop entrepreneurial skills. |
| 13 | MACHINE LEARNING LAB | 22DS2L1 | M.Sc(CDS) | 2022-23 | Build and evaluate machine learning models through hands-on lab exercises to gain |
| 14 | WEB TECHNOLOGIES LAB | 22DS2L2 | M.Sc(CDS) | 2022-23 | Develop and deploy web applications through practical lab exercises to build skills in web |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : M.Sc. COMPUTATIONAL DATA SCIENCE**

**REGULATION -20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | MATHEMATICAL ESSENTIALS FOR DATA SCIENCE | 21DS1T1 | M.Sc(CDS) | 2021-22 | Logical reasoning,Critical thinking, data interpretation, decision-making based on statistical evidence and strategic planning. |
| 2 | DATA STRUCTURES | 21DS1T2 | M.Sc(CDS) | 2021-22 | Design and implement efficient algorithms for real-world problem, coding proficiency and critical thinking skills essential for software development and entrepreneurial tech ventures. |
| 3 | OBJECT ORIENTED PROGRAMMING | 21DS1T3 | M.Sc(CDS) | 2021-22 | Develop and deploy scalable applications using object-oriented principles to foster advanced software engineering skills vital for professional software development and entrepreneurial innovation. |
| 4 | ADVANCED DATABASE MANAGEMENT SYSTEMS | 21DS1T4 | M.Sc(CDS) | 2021-22 | Design and optimize complex database solutions to handle large-scale data efficiently, equipping students with critical skills for data-driven decision-making and entrepreneurial ventures in data-intensive industries. |
| 5 | DATA MINING | 21DS1T5 | M.Sc(CDS) | 2021-22 | Apply advanced data mining techniques to uncover actionable insights from large datasets, enhancing analytical skills crucial for roles in business intelligence, data-driven entrepreneurship, and strategic decision-making. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 6 | DATA STRUCTURES LAB | 21DS1L1 | M.Sc(CDS) | 2021-22 | Implement and test various data structures through hands-on coding exercises to develop practical problem-solving skills and technical expertise essential for software engineering and tech entrepreneurship. |
| 7 | OBJECT ORIENTED PROGRAMMING LAB | 21DS1L2 | M.Sc(CDS) | 2021-22 | Create and refine object-oriented applications through lab exercises to develop practical coding skills and design patterns expertise critical for software development roles and innovative tech startups. |
| 8 | SEMINARS | 21DS1S1 | M.Sc(CDS) | 2021-22 | Engage in seminars to develop presentation skills , enhancing communication abilities which are critical for career advancement. |
| 9 | ESSENTIALS OF STATISTICS FOR DATA SCIENCE USING R | 21DS2T1 | M.Sc(CDS) | 2021-22 | Analyze real-world datasets using R to master statistical techniques and data visualization skills, crucial for data science roles and data-driven entrepreneurial ventures. |
| 10 | MACHINE LEARNING | 21DS2T2 | M.Sc(CDS) | 2021-22 | Develop and implement machine learning models to solve practical problems, enhancing skills in predictive analytics and AI essential for high-demand tech careers and innovative business solutions. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|--------------------|--------------------|----------------------------------------------------------------------------------------------|
| 11 | INTERNET OF THINGS | 21DS2T3 | M.Sc(CDS) | 2021-22 | Design and prototype IoT systems to gain hands-on experience in connected technologies, fostering skills critical for careers in smart device development and IoT-based entrepreneurial ventures. |
| 12 | DESIGN & ANALYSIS OF ALGORITHMS | 21DS2T4 | M.Sc(CDS) | 2021-22 | Analyze and optimize algorithms for efficiency to develop advanced problem-solving skills and technical expertise essential for software engineering roles and innovative tech startups. |
| 13 | WEB TECHNOLOGIES | 21OE03 | M.Sc(CDS) | 2021-22 | Create and deploy dynamic websites using modern web technologies to develop practical skills in web development and digital innovation, vital for careers in tech and entrepreneurial online ventures. |
| 14 | MACHINE LEANING LAB | 21DS2L1 | M.Sc(CDS) | 2021-22 | Build and evaluate machine learning models through hands-on lab exercises to gain practical experience in model development and data analysis, crucial for data science careers and AI-driven startups. |
| 15 | WEB TECHNOLOGIES LAB | 21DS2L2 | M.Sc(CDS) | 2021-22 | Develop and deploy web applications through practical lab projects to enhance skills in front-end and back-end development, essential for careers in web development and digital entrepreneurship. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 16 | TECHNICAL REPORT WRITING | 21DS2TRW | M.Sc(CDS) | 2021-22 | Create detailed technical reports to effectively communicate complex information, honing writing and documentation skills critical for technical roles and professional project management. |
| 17 | CLOUD COMPUTING | 21DS3T1 | M.Sc(CDS) | 2021-22 | Implement and manage cloud-based solutions to gain expertise in scalable infrastructure and services, crucial for careers in IT and cloud-based entrepreneurial ventures. |
| 18 | CYBER SECURITY | 21DS3T2 | M.Sc(CDS) | 2021-22 | Develop and apply security measures to protect digital assets, building expertise in safeguarding systems against threats, which is essential for cybersecurity careers and tech-focused entrepreneurial endeavors. |
| 19 | BIG DATA AND ANALYTICS | 21DS3T3 | M.Sc(CDS) | 2021-22 | Analyze and interpret large datasets to derive actionable insights, enhancing skills in handling big data technologies and analytics critical for data-driven decision-making and innovative business solutions. |
| 20 | BLOCK CHAIN TECHNOLOGY | 21DS3T4 | M.Sc(CDS) | 2021-22 | enhance employability in the tech sector, foster entrepreneurial opportunities in fintech and blockchain startups, and develop essential skills in emerging technologies. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 21 | DEEP LEARNING | 21OE10 | M.Sc(CDS) | 2021-22 | Build and train advanced neural networks to solve complex problems, enhancing skills in artificial intelligence and deep learning, crucial for roles in AI development and cutting-edge tech ventures. |
| 22 | DEEP LEARNING LAB | 21DS3L1 | M.Sc(CDS) | 2021-22 | Implement and experiment with deep learning models through hands-on lab sessions to gain practical experience in AI techniques and neural network design, essential for careers in advanced machine learning and AI-driven projects. |
| 23 | BIG DATA AND ANALYTICS LAB | 21DS3L2 | M.Sc(CDS) | 2021-22 | Work on real-world big data projects using advanced analytics tools to develop practical skills in data processing and interpretation, crucial for roles in data science and analytics-driven entrepreneurship. |
| 24 | MINI PROJECT | 21DS3P1 | M.Sc(CDS) | 2021-22 | Design and complete a mini project to apply theoretical knowledge to practical problems, developing project management and technical skills vital for career readiness and entrepreneurial initiatives. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 25 | DATA VISUALIZATION | 21DS4T1 | M.Sc(CDS) | 2021-22 | Create interactive visualizations of complex data sets to enhance skills in presenting insights and trends, crucial for roles in data analysis and data-driven business decision-making. |
| 26 | BUSINESS ANALYTICS | 21DS4T2 | M.Sc(CDS) | 2021-22 | Apply analytical techniques to business data to uncover insights and drive strategic decisions, developing skills essential for roles in business intelligence and data-driven entrepreneurial ventures. |
| 27 | PRIVACY AND SECURITY IN ONLINE SOCIAL MEDIA | 21DSM1 | M.Sc(CDS) | 2021-22 | Assess and implement privacy and security measures for online social media platforms to develop expertise in protecting digital identities and data, critical for roles in cybersecurity and digital privacy consulting. |
| 28 | DATA VISUALIZATION LAB | 21DS4L1 | M.Sc(CDS) | 2021-22 | Create and refine interactive data visualizations through lab exercises to enhance skills in data presentation and storytelling, essential for careers in data analysis and visualization-driven business strategies. |
| 29 | PROJECT WORK | 21DS4P1 | M.Sc(CDS) | 2021-22 | Execute comprehensive project work to integrate and apply theoretical knowledge in practical scenarios, developing project management, problem-solving, and technical skills crucial for career success and entrepreneurial ventures. |

**Criterion I - Curricular Aspects**          **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : MASTER OF COMMERCE**

**REGULATION -20**

| S.NO | Name of the Course | Course code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 1 | Management Theory & Practice | 20CO111 | MCOM | 2020-22 | **Employability** to equip the students to become business consultants |
| 2 | Business Economics | 20CO112 | MCOM | 2020-22 | **Employability** to understand the economy of the country and helps in establishing small business. |
| 3 | Business Environment | 20CO113 | MCOM | 2020-22 | **Employability & Entrepreneurship** provides insights to the future entrepreneurs to plan, launch and grow a business venture. |
| 4 | Entrepreneurship Development & Business Models | 20CO114 | MCOM | 2020-22 | **Employability & Entrepreneurship** provides insights in the field of entrepreneurship and able to meet the requirements of upcoming business trends. |
| 5 | Information Technology for Business | 20CO115 | MCOM | 2020-22 | **Employability** to develop Organization's systems, networks, data and applications |
| 6 | Quantitative Techniques for Business Decisions | 20CO116 | MCOM | 2020-22 | **Employability** helps to solve Manegerial problems |
| 7 | Financial Accounting & Packages | 20CO211 | MCOM | 2020-22 | **Employability & Skill Development** provides relevant managerial accounting career skills. |

| S.NO | Name of the Course | Course code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 8 | Financial Management | 20CO212 | MCOM | 2020-22 | **Employability & Skill Development** provides an understanding of the overall role and importance of the finance function and Demonstrates basic finance management knowledge |
| 9 | Human Resources Management | 20CO213 | MCOM | 2020-22 | **Employability** to develop the students' ability to become a trainer in human resource management and development. |
| 10 | Marketing Management | 20CO214 | MCOM | 2020-22 | **Employability** activities such as Case Studies, Market Simulation, Sales Pitch helps the students to get practical perspective and enhances their employability skills. |
| 11 | Business Research Methods | 20CO215 | MCOM | 2020-22 | **Employability & Skill Development** helps to develop Research and Development |
| 12 | E-Commerce | 20CO216 | MCOM | 2020-22 | **Employability & Skill Development** to know how the execute business in online and it also improves the Online Transaction Systems & its Networks. |

| S.NO | Name of the Course | Course code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 13 | Spread Sheet & Computerised Accounting Package | GE07 | MCOM | 2020-22 | **Employability & Skill Development** simplify the data entry work and enables financial statements and automatic charts. |
| 14 | Human Values & Ethics | GE02 | MCOM | 2020-22 | **Employability** shows the essence for positive human behaviour and actions. |
| 15 | Personality Development Lab | GE03 | MCOM | 2020-22 | **Employability & Skill Development** shape up the personality to meet future challenges |
| 16 | Business Communication Skills | 20CO311 | MCOM | 2020-22 | **Employability** improves employability skills |
| 17 | Financial Institutions & Markets | 20CO312 | MCOM | 2020-22 | **Employability** to create awareness among the students to become financial intermediary |
| 18 | Advanced Cost Accounting | 20CO321 | MCOM | 2020-22 | **Employability** provides recommendations to improve the operations of organisations through the application of Cost accounting techniques |
| 19 | Corporate Accounting | 20CO322 | MCOM | 2020-22 | **Employability & Skill Development** imparts knowledge about Quantitative skills which can help to analyze and solve business problems |

| S.NO | Name of the Course | Course code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 20 | Direct Taxes | 20CO323 | MCOM | 2020-22 | **Employability** provides knowledge of Taxation, imposition of compulsory levies on individuals or entities by governments. |
| 21 | Management Control System | 20CO324 | MCOM | 2020-22 | **Employability** provides knowledge for comprehensive use of ERPs |
| 22 | Security Analysis& Portfolio Management | 20CO331 | MCOM | 2020-22 | **Employability & Skill Development** meets industry requirement in providing knowledge about Portfolio management |
| 23 | Bank Management | 20CO332 | MCOM | 2020-22 | **Employability** helps to understand the functioning of banks |
| 24 | Export Finance | 20CO333 | MCOM | 2020-22 | **Employability & Entrepreneurship** provides assistance to connect entrepreneurs to the global market, |
| 25 | Insurance Products and Management | 20CO334 | MCOM | 2020-22 | **Employability** enhances the need of fundamentals in insurance contracts. |
| 26 | International Business Environment | 20CO341 | MCOM | 2020-22 | **Employability** to develop the students to become export and import consultants or establishing export business |

| S.NO | Name of the Course | Course code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 27 | International Accounting | 20CO342 | MCOM | 2020-22 | **Employability** able to achieve international efficiency and remain competitive in its industry. |
| 28 | International Financial Management | 20CO343 | MCOM | 2020-22 | **Employability** imparts knowledge in the Identification and appraisal of investment opportunities in the international environment along with exchange rate fluctuations and develop strategies to deal with them. |
| 29 | International Business Law & Taxation | 20CO344 | MCOM | 2020-22 | **Employability** governs and regulates international transactions. |
| 30 | GST Certification Course | GE04 | MCOM | 2020-22 | **Employability** helps to understand the GST and its implications and become the GST consultant. |
| 31 | Soft and Employability Skills | GE05 | MCOM | 2020-22 | **Employability & Skill Development** to understand individual action plans and training towards event management and various mechanisms of team building and know the importance of team work. |

| S.NO | Name of the Course | Course code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 32 | MOOCS: NPTEL/SWAYAM/edX/Coursera/Stanford Online/Udacity/ OpenClassrooms/ Open2Study/ ALISON/ Khan Academy/ NSE-NCFM/IRDA/NISM/ Any course related to MBA from the | GE06 | MCOM | 2020-22 | **Employability & Skill Development** students are expose to be self learning mode and will be getting certifications by world leading MOOCs.This will be enchance students employbility skills |
| 33 | Project Work | 20CO351 | MCOM | 2020-22 | **Employability & Skill Development** students are expose to pratical knowledge in various outside organizations including Industrial establishment,service organizations,Goverenmental agenices.This will be enchance students employbility skills |
| 34 | Project Planning and Control | 20CO411 | MCOM | 2020-22 | **Employability & Skill Development** develop New ideas and Converted in to reality |
| 35 | Industrial Laws | 20CO412 | MCOM | 2020-22 | **Employability** make the students aware about indutrial laws and helps in managing the small scale industries. |

| S.NO | Name of the Course | Course code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|---------------------|---------------------|--------------------------------------------------------------------------------------------------|
| 36 | Advanced Management Accounting | 20CO421 | MCOM | 2020-22 | **Employability** provides recommendations to improve the operations of organisations through the application of Management accounting techniques |
| 37 | Auditing & Assurance | 20CO422 | MCOM | 2020-22 | **Employability** observes the company's quality standards by providing both internal and external confidence for financial statements. |
| 38 | GST & Customs | 20CO423 | MCOM | 2020-22 | **Employability** provides an understanding of forward charge mechanism, reverse charge mechanism, composite supply, mixed supply and various exemptions under the new Goods |
| 39 | Corporate Tax Planning & Management | 20CO424 | MCOM | 2020-22 | **Employability** able to achieve tax efficiency and remain competitive in its industry. |
| 40 | Financial Derivatives | 20CO431 | MCOM | 2020-22 | **Employability** imparts knowledge of how forward contracts, futures contracts, swaps and options work, how they are used and how they are priced. |

| S.NO | Name of the Course | Course code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 41 | Financial Services | 20CO432 | MCOM | 2020-22 | **Employability** enhances knowledge in financial concepts, theories and tools and to evaluate the legal, ethical and economic environment related to financial services. |
| 42 | Banking and Technology | 20CO433 | MCOM | 2020-22 | **Employability** students will understand the latest technical advancements in banking industry |
| 43 | Insurance and Risk Management | 20CO434 | MCOM | 2020-22 | **Employability** facilitates the spreading of risk from the insured to the insurer if a loss occurs, it is compensated out of funds of the insurer. |
| 44 | Foreign Exchange and Risk Management | 20CO441 | MCOM | 2020-22 | **Employability** defines all the measures devised by businesses or investors to protect the value of their cash flows. |
| 45 | Global Logistics & Supply Chain Mgt. | 20CO442 | MCOM | 2020-22 | **Employability** as the international trade is growing rapidly the exposure in logistics and supply cahin management practces provide employment opportunities in global logistic hubs, supply cahin and service centres |

| S.NO | Name of the Course | Course code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|--------------------------------------------------------------------------------------------|
| 46 | International Business Negotiations | 20CO443 | MCOM | 2020-22 | **Employability** equip the students to become industrial consultant |
| 47 | India's Foreign Trade & Documentation | 20CO444 | MCOM | 2020-22 | **Employability** to faclitate the students to become consultant in foreign business or to establise export and import business |
| 48 | Comprehensive Viva-Voce | 20CO451 | MCOM | 2020-22 | **Employability & Skill Development** outside experts will be testing the concept your understanding of the learner.This will be enchance students employbility skills |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : MASTER OF COMMERCE(MCOM)**

**REGULATION -17**

| S.NO | Name of the Course | COURSE CODE | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|---------------------|---------------------|---------------------------------------------------------------------------------------------|
| 1 | Management Theory & Practice | CO111 | MCOM | 2019-20 | **Employability** to equip the students to become business consultants |
| 2 | Business Economics | CO112 | MCOM | 2019-20 | **Employability** to understand the economy of the country and helps in establishing small business. |
| 3 | Business Environment | CO113 | MCOM | 2019-20 | **Employability & Entrepreneurship** provides insights to the future entrepreneurs to plan, launch and grow a business venture. |
| 4 | Entrepreneurship Development & Business Models | CO114 | MCOM | 2019-20 | **Employability & Entrepreneurship** provides insights in the field of entrepreneurship and able to meet the requirements of upcoming business trends. |
| 5 | Information Technology for Business | CO115 | MCOM | 2019-20 | **Employability** to develop Organization's systems, networks, data and applications |
| 6 | Quantitative Techniques for Business Decisions | CO116 | MCOM | 2019-20 | **Employability** it helps to solve Manegerial problems |
| 7 | **Financial Accounting & Packages** | **CO211** | MCOM | 2019-20 | **Employability & Skill Development** provides relevant managerial accounting career skills. |
| 8 | **Financial Management** | **CO212** | MCOM | 2019-20 | **Employability & Skill Development** provides an understanding of the overall role and importance of the finance function and Demonstrates basic finance management knowledge |
| 9 | **Human Resources Management** | **CO213** | MCOM | 2019-20 | **Employability** to develop the students' ability to become a trainer in human resource management and development. |

| S.NO | Name of the Course | COURSE CODE | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 10 | **Marketing Management** | **CO214** | MCOM | 2019-20 | **Employability** activities such as Case Studies, Market Simulation, Sales Pitch helps the students to get practical perspective and enhances their employability skills. |
| 11 | **Business Research Methods** | **CO215** | MCOM | 2019-20 | **Employability & Skill Development** it helps to develop Research and Development |
| 12 | **E-Commerce** | **CO216** | MCOM | 2019-20 | **Employability & Skill Development** to know how the execute business in online and it also improves the Online Transaction Systems & its Networks. |
| 13 | **Spread Sheet & Computerised Accounting Package** | **GE07** | MCOM | 2019-20 | **Employability & Skill Development** simplify the data entry work and enables financial statements and automatic charts. |
| 14 | Human Values & Ethics | GE02 | MCOM | 2019-20 | **Employability** shows the essence for positive human behaviour and actions. |
| 15 | Personality Development Lab | GE03 | MCOM | 2019-20 | **Employability & Skill Development** shape up the personality to meet future challenges. |
| 16 | Business Communication Skills | CO311 | MCOM | 2019-20 | **Employability** improves employability skills |
| 17 | Financial Institutions & Markets | CO312 | MCOM | 2019-20 | **Employability** to create awareness among the students to become financial intermediary |
| 18 | **Advanced Cost Accounting** | CO321 | MCOM | 2019-20 | **Employability** provides recommendations to improve the operations of organisations through the application of Cost accounting techniques |

| S.NO | Name of the Course | COURSE CODE | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 19 | **Corporate Accounting** | CO322 | MCOM | 2019-20 | **Employability & Skill Development** mparts knowledge about Quantitative skills which can help to analyze and solve business problems |
| 20 | Direct Taxes | CO323 | MCOM | 2019-20 | **Employability** provides knowledge of Taxation, imposition of compulsory levies on individuals or entities by governments. |
| 21 | Management Control System | CO324 | MCOM | 2019-20 | **Employability** provides knowledge for comprehensive use of ERPs |
| 22 | **Security Analysis& Portfolio Management** | CO331 | MCOM | 2019-20 | **Employability & Skill Development** meets industry requirement in providing knowledge about Portfolio management |
| 23 | **Bank Management** | CO332 | MCOM | 2019-20 | **Employability** helps to understand the functioning of banks |
| 24 | Export Finance | CO333 | MCOM | 2019-20 | **Employability & Entrepreneurship** provides assistance to connect entrepreneurs to the global market, |
| 25 | Insurance Products and Management | CO334 | MCOM | 2019-20 | **Employability** enhances the need of fundamentals in insurance contracts. |
| 26 | International Business Environment | CO341 | MCOM | 2019-20 | **Employability** to develop the students to become export and import consultants or establishing export business |
| 27 | International Accounting | CO342 | MCOM | 2019-20 | **Employability** able to achieve international efficiency and remain competitive in its industry. |

| S.NO | Name of the Course | COURSE CODE | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 28 | International Financial Management | CO343 | MCOM | 2019-20 | **Employability** imparts knowledge in the Identification and appraisal of investment opportunities in the international environment along with exchange rate fluctuations and develop strategies to deal with them. |
| 29 | International Business Law & Taxation | CO344 | MCOM | 2019-20 | **Employability** governs and regulates international transactions. |
| 30 | GST Certification Course | GE04 | MCOM | 2019-20 | **Employability** helps to understand the GST and its implications and become the GST consultant. |
| 31 | **Soft and Employability Skills** | GE05 | MCOM | 2019-20 | **Employability & Skill Development** to understand individual action plans and training towards event management and various mechanisms of team building and know the importance of team work. |
| 32 | MOOCS: NPTEL/SWAYAM/edX/Coursera/Stanford Online/Udacity/ OpenClassrooms/ Open2Study/ ALISON/ Khan Academy/ NSE-NCFM/IRDA/NISM/ Any course related to MBA from the | GE06 | MCOM | 2019-20 | **Employability & Skill Development** students are expose to be self learning mode and will be getting certifications by world leading MOOCs.This will be enchance students employbility skills |
| 33 | **Project Work** | CO351 | MCOM | 2019-20 | **Employability & Skill Development** students are expose to pratical knowledge in various outside organizations including Industrial establishment,service organizations,Goverenmental agenices.This will be enchance students employbility skills |
| 34 | **Project Planning and Control** | CO411 | MCOM | 2019-20 | **Employability & Skill Development** develop New ideas and Converted in to reality |

| S.NO | Name of the Course | COURSE CODE | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 35 | **Industrial Laws** | CO412 | MCOM | 2019-20 | **Employability** make the students aware about indutrial laws and helps in managing the small scale industries. |
| 36 | **Advanced Management Accounting** | CO421 | MCOM | 2019-20 | **Employability** provides recommendations to improve the operations of organisations through the application of Management accounting techniques |
| 37 | **Auditing & Assurance** | CO422 | MCOM | 2019-20 | **Employability** observes the company's quality standards by providing both internal and external confidence for financial statements. |
| 38 | GST & Customs | CO423 | MCOM | 2019-20 | **Employability** provides an understanding of forward charge mechanism, reverse charge mechanism, composite supply, mixed supply and various exemptions under the new Goods and Service tax regime. |
| 39 | Corporate Tax Planning & Management | CO424 | MCOM | 2019-20 | **Employability** able to achieve tax efficiency and remain competitive in its industry. |
| 40 | Financial Derivatives | CO431 | MCOM | 2019-20 | **Employability** imparts knowledge of how forward contracts, futures contracts, swaps and options work, how they are used and how they are priced. |
| 41 | Financial Services | CO432 | MCOM | 2019-20 | **Employability** enhances knowledge in financial concepts, theories and tools and to evaluate the legal, ethical and economic environment related to financial services. |
| 42 | **Banking and Technology** | CO433 | MCOM | 2019-20 | **Employability** students will understand the latest technical advancements in banking industry |

| S.NO | Name of the Course | COURSE CODE | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 43 | **Insurance and Risk Management** | CO434 | MCOM | 2019-20 | **Employability** facilitates the spreading of risk from the insured to the insurer if a loss occurs, it is compensated out of funds of the insurer. |
| 44 | Foreign Exchange and Risk Management | CO441 | MCOM | 2019-20 | **Employability** defines all the measures devised by businesses or investors to protect the value of their cash flows. |
| 45 | Global Logistics & Supply Chain Mgt. | CO442 | MCOM | 2019-20 | **Employability** as the international trade is growing rapidly the exposure in logistics and supply cahin management practces provide employment opportunities in global logistic hubs, supply cahin and service centres |
| 46 | International Business Negotiations | CO443 | MCOM | 2019-20 | **Employability** equip the students to become industrial consultant |
| 47 | India's Foreign Trade & Documentation | CO444 | MCOM | 2019-20 | **Employability** to faclitate the students to become consultant in foreign business or to establise export and import business |
| 48 | **Comprehensive Viva-Voce** | CO451 | MCOM | 2019-20 | **Employability & Skill Development** outside experts will be testing the concept your understanding of the learner.This will be enchance students employbility skills |

**NAAC - SSR IV CYCLE**

**Criterion I - Curricular Aspects**      **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : MA ENGLISH**

**REGULATION -20**

| SNO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | LinguisticsandPhonetics | 20EN1T1 | MA ENGLISH | 2017-18 | **Employability:** International Phonetic Alphabet (IPA): Learn a few basic IPA symbols and try to transcribe simple words into IPA. You can find IPA charts online or in dictionaries. Analyze Song Lyrics: Examine the lyrics of a song and identify any interesting features like wordplay, figurative language, or grammatical structures. Analyze Advertisements: Look at advertisements and analyze the language used to persuade or inform the audience. |
| 2 | Introduction to LiteraryStudies | 20EN1T2 | MA ENGLISH | 2017-18 | Reading Literary Terms and Movements in Literature |
| 3 | Poetry-I | 20EN1T3 | MA ENGLISH | 2017-18 | poetry recitation, original poetry writing, and also enable students to analyse poems and critcally appreciate literary master pieces which enhances their writing skills. |
| 4 | Drama-I | 20EN1T4 | MA ENGLISH | 2017-18 | Class Room Roleplays and Skits: Enhances the stage presence skill along with public speaking. |
| 5 | ProseandFiction-I | 20EN1T5 | MA ENGLISH | 2017-18 | Writing small prose pieces for magazines and news papers, which enchaces their imagination and language skills. |
| 6 | ComputerApplicationsforEnglish (ComprehensiveLabcumViva) | 20EN1L1 | MA ENGLISH | 2017-18 | Students are trained in LSRW skills. Activity: Building Vocabulary |

| SNO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 7 | VictorianAge | 20EN2T1 | MA ENGLISH | 2017-18 | Students are trained to speak well with approprite pronunciation. Activity: Writing Essays |
| 8 | Poetry-II | 20EN2T2 | MA ENGLISH | 2017-18 | Poetry recitation and writing origianl poetry enhances the skill of students and this activity is continously conducted to update the creative skills of students. |
| 9 | Drama-II | 20EN2T3 | MA ENGLISH | 2017-18 | students are able to write analysis of the poems which helps them to write magazine articles and produce other contents related to literature. |
| 10 | ProseandFiction-II | 20EN2T4 | MA ENGLISH | 2017-18 | Writing small prose pieces for magazines and news papers, which enchaces their imagination and language skills. |
| 11 | Translation TheoryandPractice | 20EN2T5 | MA ENGLISH | 2017-18 | Students are able to understand the techniques of translation and attempt translation which is in demand now. |
| 12 | DigitalSkillsforEnglish(Comprehensive LabcumViva) | 20EN2L1 | MA ENGLISH | 2017-18 | Students ara equipped with soft skills and personality development.<br>Activity: Note Making, Reading Passage, Presentation. |

| SNO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 13 | EnglishCommunicationSkills (OpenElective-1) | 20EN2L2 | MA ENGLISH | 2017-18 | Students are trained to prepare magazines and be creative in their literary expressions. READING NEWSPAPER: 1. Reading a news article and analysing it. 2. Writing a news article. |
| 14 | Literary Theory and Criticism-I | 20EN3T1 | MA ENGLISH | 1995-96 | Students are trained to analyse a text critically and be creative in their literary expressions. Activity: Interpreting a text. |
| 15 | New Literatures in English | 20EN3T2 | MA ENGLISH | 2010-11 | Students are able to understand colonial and post colonial studies. Activity: Analysis of Post colonial literature. |
| 16 | Indian Literature in Translation | 20EN3T3 | MA ENGLISH | 1995-96 | Students learn Indian Literatures translated in English. Activity: Translating words and sentences |
| 17 | American Literature-I | 20EN3T4 | MA ENGLISH | 1995-96 | Students are trained to understand themes in American literature. Activity: Reading American Poetry. |
| 18 | English Language Teaching -I | 20EN3T5 | MA ENGLISH | 2010-11 | Students are trained in different teaching methodologies. Activity: Bilingual Method. |

| SNO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 19 | English for Academic Purposes (Comprehensive Lab cum Viva) | 20EN3L1 | MA ENGLISH | 2017-18 | Students are trained to develop effective communication and be creative in their writings. Activity: PPT Presentation |
| 20 | English Presentation and Soft Skills (Open Elective -2) | 20EN3L2 | MA ENGLISH | 1995-96 | Students are trained in soft skills to enhance their personality. Activity: Preparing CV, PPT Presentation. |
| 21 | English Language Teaching -II | 20EN4T1 | MA ENGLISH | 1995-96 | Students are trained in peer teaching and also apply different methods of teaching English. Activity: Peer Teaching |
| 22 | American Literature-II | 20EN4T2 | MA ENGLISH | 2010-11 | Students are trained to understand the success, failure and absurdity of American life. Activity: Reading American Plays. |
| 23 | Literary Theory and Criticism-II | 20EN4T3 | MA ENGLISH | 2012-13 | Students learn literary theories and apply the theories to the text. Activity: Applying theory to the text for interpretation. |
| 24 | Indian English Literature | 20EN4T4 | MA ENGLISH | 1995-96 | Students are trained to understand different genres in Indian Writings. Activity: Interpreting characters in the text |

| SNO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 25 | Life Skills (Comprehensive Viva/Lab) | 20EN4L1 | MA ENGLISH | 2017-18 | Students are trained to speak fluently with grammatical perfection and trained to write paragraphs and essays on their own.<br>Activity: SWOT Analysis |
| 26 | Open Elective -1 | 20 EN2E1 | MA ENGLISH | 2019-20 | Students are able to improve their English Language Skills by practicing different exercises in the class.<br>Activity: JAM |
| 27 | Open Elective -2 | 20 EN3E2 | MA ENGLISH | 2019-20 | Students are given training to enhance their personality. Soft skills and life skills are nurtured.<br>Activity: Journaling, Presentation |

**Criterion I - Curricular Aspects**  **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : MA ENGLISH**

**REGULATION -17**

| SNO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | POETRY-I | EN1T2 | MA ENGLISH | 2017-18 | Poetry recitation and writing original poetry enhances the skill of students and this activity is continously conducted to update the creative skills of students. |
| 2 | DRAMA-I | EN1T3 | MA ENGLISH | 2017-18 | Class Room Roleplays and Skits: Enhances the stage presence skill along with public speaking. |
| 3 | PROSE & FICTION-I | EN1T4 | MA ENGLISH | 2017-18 | Writing small prose pieces for magazines and news papers, which enchaces their imagination and language skills. |
| 4 | VICTORIAN AGE | EN1T6 | MA ENGLISH | 2017-18 | Reading activity in the classroom about ancient literature. Creates awareness about past Literature and History. |

| SNO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 5 | INTRODUCTION TO LITERATURE | EN1T7 | MA ENGLISH | 2017-18 | Activites related to life style. Students are able to understand literature is a reflection of life. |
| 6 | PRACTICE COMMUNICATION SKILLS-I | EN1L1 | MA ENGLISH | 2017-18 | Students are trained in LSRW skills. VOCABULARY BUILDING: Students were given several activities to build vocabulary. 1. Making sentences using collocations. 2. Fill in the blanks in the text with appropriate vocabulary.   3. Reading newspaper and writing headlines. 4. Using idioms and phrases in sentences.                      5. Explaining an inspiring story. |

| SNO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 7 | PHONETICS & LINGUISTICS | EN2T1 | MA ENGLISH | 2017-18 | Students are trained to speak well with approprite pronunciation. RECITING PHONETICS: 1. Uttering consonants and vowels. 2. Uttering diphthongs. 3. Practicing pronunciation in words. |
| 8 | POETRY-II | EN2T2 | MA ENGLISH | 2017-18 | Poetry recitation and writing origianl poetry enhances the skill of students and this activity is continously conducted to update the creative skills of students. |
| 9 | DRAMA-II | EN2T3 | MA ENGLISH | 2017-18 | class room roleplays and skits. Enhances the stage presence skill along with public speaking. |
| 10 | PROSE & FICTION-II | EN2T4 | MA ENGLISH | 2017-18 | Writing small prose pieces for magazines and news papers, which enchaces their imagination and language skills. |

| SNO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 11 | INDIAN LITERATURE IN TRANSLATION | EN2T6 | MA ENGLISH | 2017-18 | Writing small prose pieces for magazines and news papers, which enchaces their imagination and language skills. |
| 12 | PRACTICE COMMUNICATION SKILLS-II | EN2L1 | MA ENGLISH | 2017-18 | Students ara equipped with soft skills and personality development. NOTE MAKING: Students were trained to listen actively and make notes using abbrevations. READING: Students were equipped with different types of reading skills by giving practice to read different text. SOFT SKILLS: Interpersonal skills, decision making, stress management, self-confidence, team work, and positive attitude are nurtured. |

| SNO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 13 | LITERARY THEORY & CRITICISM-I | EN3T1 | MA ENGLISH | 2017-18 | Developing the skill of criticism and linguisitic theories |
| 14 | NEW LITERATURES IN ENGLISH-I | EN3T2 | MA ENGLISH | 2017-18 | Students are trained to understand the new trends in third world literatures and are equipped with native literature and its characteristic features. |
| 15 | INDIAN WRITING IN ENGLISH | EN3T3 | MA ENGLISH | 2017-18 | Indian English vocabulary is introduced to the students and new words are used by the students in day to day converstations. |
| 16 | AMERICAN LITERATURE-I | EN3T4 | MA ENGLISH | 2017-18 | Creates exposure to students about the Literary circumstances existed in Developed country like United states of America. |

| SNO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|-----|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 17 | ENGLISH LANGUAGE TEACHING-I | EN3T5 | MA ENGLISH | 2017-18 | Students are trained in different methods of teaching. Grammar Translation Method |
| 18 | PRACTICE COMMUNICATION SKILLS-III | EN3L1 | MA ENGLISH | 2017-18 | Students are trained to prepare magazines and be creative in their literary expressions. READING NEWSPAPER: 1. Reading a news article and analysing it. 2. Writing a news article. 3. Writing Headlines using literary expressions. |
| 19 | LITERARY THEORY & CRITICISM-II | EN4T1 | MA ENGLISH | 2017-18 | Students are trained to appreciate literary texts and criticise the literary pieces in unique way. |
| 20 | NEW LITERATURES IN ENGLISH-II | EN4T2 | MA ENGLISH | 2017-18 | Students are trained to understand the new trends in third world literatures and are equipped with native literature and its characteristic features. |

| SNO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 21 | INDIAN LITERATURE IN TRANSLATION | EN4T3 | MA ENGLISH | 2017-18 | Students are trained to translate small prose pieces. TRANSLATION: 1. Exercises to translate one word from mother tongue to English. 2. Translate one sentence from mother tongue to English. |
| 22 | AMERICAN LITERATURE-II | EN4T4 | MA ENGLISH | 2017-18 | Students are trained to have self reliant life style like Americans and learn to live their life according to their whims and fancies |
| 23 | ENGLISH LANGUAGE TEACHING-II | EN4T5 | MA ENGLISH | 2017-18 | Students are trained to apply different methods of teaching English in the classroom. Peer Teaching: Teaching among the classmates |
| 24 | ENGLISH FOR TECHNICAL COMMUNICATIO | EN4T6 | MA ENGLISH | 2017-18 | English for Technical communication helps students to have technical skills interms of communication and also enhance their Technical vocabulary |

| SNO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 25 | PRACTICE COMMUNICATION SKILLS-IV | EN4L1 | MA ENGLISH | 2017-18 | Students are trained to speak fluently with grammatical perfection and trained to write paragraphs and essays of their own. PROJECT: Students selected a topic from Literature and did research. |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2: The  programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : M.Sc. MATHEMATICS**

**REGULATION -22**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | REAL ANALYSIS- I | 22MA1T1 | M.Sc. MATHEMATICS | 2022-23 | Problem solving skill: It is concerned with limits, continuity, differentiation, and integration problem solving skills laying the groundwork for understanding the calculus and beyond. These concepts are not only foundational for advanced mathematical studies but also have applications in physics, engineering, and economics. |
| 2 | ORDINARY DIFFERENTIAL EQUATIONS | 22MA1T2 | M.Sc. MATHEMATICS | 2022-23 | Problem solving skill: 1.Formulation of differential equations 2. Finding Solutions of differential equations by various techniques |
| 3 | ALGEBRA | 22MA1T3 | M.Sc. MATHEMATICS | 2022-23 | Problem solving skill: verification of relationships between different algebraic structures |
| 4 | TOPOLOGY | 22MA1T4 | M.Sc. MATHEMATICS | 2022-23 | Problem solving skill: solves problems using numerical approximation. It involves designing methods that give approximate but accurate numeric solutions, which is useful in cases where the exact solution is impossible or dificult to calculate. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 5 | C PROGRAMMING | 22MA1T5 | M.Sc. MATHEMATICS | 2022-23 | Problem solving skill:This course imparts Problem Solving Skills in the students using the programming language C by identifying a better data structure that stores and organizes data in a computer so that it can be used efficiently in any given scenario. |
| 6 | C PROGRAMMING LAB | 22MA1L1 | M.Sc. MATHEMATICS | 2022-23 | Problem solving skill |
| 7 | COMPLEX ANALYSIS | 22MA2T1 | M.Sc. MATHEMATICS | 2022-23 | Problem solving skill |
| 8 | NUMERICAL METHODS | 22MA2T2 | M.Sc. MATHEMATICS | 2022-23 | Problem solving skill: develop and analyze numerical methods for solving problems that arise in other areas of mathematics, such as calculus, linear algebra, or differential equations. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 9 | PARTIAL DIFFERENTIAL EQUATIONS | 22MA2T3 | M.Sc. MATHEMATICS | 2022-23 | Problem solving skill: 1.Formulation of partial differential equations 2. Finding Solutions of partial differential equations by various techniques |
| 10 | LATTICE THEORY | 22MA2T4 | M.Sc. MATHEMATICS | 2022-23 | Problem solving skill: Lattice theory, a fundamental component of mathematical structures, delves into how order relationships interact within a set, offering insights into algebraic and geometric principles." |
| 11 | ALGEBRAIC CODING THEORY | 22MA2D1 | M.Sc. MATHEMATICS | 2022-23 | Problem solving skill:Uses algebraic techniques to construct efficient codes and identifies the parameters of a given code. |
| 12 | GRAPH THEORY | 22MA2D2 | M.Sc. MATHEMATICS | 2022-23 | Problem solving skill: Model many types of relations and processes in physical, biological, social and information systems and has a wide range of useful applications. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 13 | DISCRETE MATHEMATICAL STRUCTURES | 22MA2D3 | M.Sc. MATHEMATICS | 2022-23 | Problem solving skill: Solves and analyzes real world problems like for understanding algorithms, creating logical solutions in programming or software system design specifications, etc. |
| 14 | NUMERICAL METHODS LAB | 22MA2L1 | M.Sc. MATHEMATICS | 2022-23 | Problem solving skill&Employability skill |

**Criterion I - Curricular Aspects**            **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : M.Sc. MATHEMATICS**

**REGULATION -20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | REAL ANALYSIS -I | 20MA1T1 | M.Sc. MATHEMATICS | 2020-21 | Problem Solving skill:It is concerned with limits, continuity, differentiation, and integration problem solving skills laying the groundwork for understanding the calculus and beyond. These concepts are not only foundational for advanced mathematical studies but also have applications in physics, engineering, and economics. |
| 2 | ORDINARY DIFFERENTIAL EQUATIONS | 20MA1T2 | M.Sc. MATHEMATICS | 2020-21 | Problem Solving Skill: 1.Formulation of differential equations 2. Finding Solutions of differential equations by various techniques |
| 3 | ALGEBRA | 20MA1T3 | M.Sc. MATHEMATICS | 2020-21 | Problem Solving Skill: verification of relationships between different algebraic structures |
| 4 | TOPOLOGY | 20MA1T4 | M.Sc. MATHEMATICS | 2020-21 | Problem Solving Skill: solves problems using numerical approximation. It involves designing methods that give approximate but accurate numeric solutions, which is useful in cases where the exact solution is impossible or dificult to calculate. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 5 | C PROGRAMMING | 20MA1T5 | M.Sc. MATHEMATICS | 2020-21 | Problem Solving Skill:This course imparts Problem Solving Skills in the students using the programming language C by identifying a better data structure that stores and organizes data in a computer so that it can be used efficiently in any given scenario. |
| 6 | PRACTICAL | 20MA1L1 | M.Sc. MATHEMATICS | 2020-21 | problem solving skill |
| 7 | C PROGRAMMING LAB | 20MA1L2 | M.Sc. MATHEMATICS | 2020-21 | Problem Solving Skill&Employability skill: developes simple console-based programs using C language with features like decision-making statements, loops, functions & arrays. |
| 8 | COMPLEX ANALYSIS | 20MA2T1 | M.Sc. MATHEMATICS | 2020-21 | Problem Solving Skill: solves problems of complex variables and functions. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 9 | NUMERICAL METHODS | 20MA2T2 | M.Sc. MATHEMATICS | 2020-21 | Problem Solving Skill: develop and analyze numerical methods for solving problems that arise in other areas of mathematics, such as calculus, linear algebra, or differential equations. |
| 10 | PARTIAL DIFFERENTIAL EQUATIONS | 20MA2T3 | M.Sc. MATHEMATICS | 2020-21 | Problem Solving Skill: 1.Formulation of partial differential equations 2. Finding Solutions of partial differential equations by various techniques |
| 11 | GRAPH THEORY AND ALGORITHMS | 20MA2T4 | M.Sc. MATHEMATICS | 2020-21 | Problem Solving Skill:In this course we focus on basic graph algorithms. Problems arising in communication networks, social networks and transportation networks are naturally modelled as problems on graphs. Graph algorithms are among the extensively investigated and applied topics in computer science. |
| 12 | LATTICE THEORY | 20MA2T5 | M.Sc. MATHEMATICS | 2020-21 | Problem Solving Skill:Lattice theory, a fundamental component of mathematical structures, delves into how order relationships interact within a set, offering insights into algebraic and geometric principles. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|---------------------|---------------------|---------------------------------------------------------------------------------------------|
| 13 | REAL ANALYSIS -II | 20MA2T6 | M.Sc. MATHEMATICS | 2020-21 | problem solving skill |
| 14 | NUMERICAL METHODS LAB | 20MA2L1 | M.Sc. MATHEMATICS | 2020-21 | Problem solving skill&Employability skill |
| 15 | MEASURE AND INTEGRATION | 20MA3T1 | M.Sc. MATHEMATICS | 2020-21 | Problem Solving Skill: The theory and applications of the Lebesgue integral via measure theory can be used to solve a variety of problems in mathematics. |
| 16 | PROBABILITY AND STATISTICS | 20MA3T2 | M.Sc. MATHEMATICS | 2020-21 | Problem Solving Skill&Employability skill: Solves problems related to hypothesis testing, regression analysis, and experimental design across various disciplines, including science, engineering, social sciences and business. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 17 | GALOIS THEORY | 20MA3T3 | M.Sc. MATHEMATICS | 2020-21 | Problem solving skill: Solves problems related to field extensions and Galois fields. |
| 18 | MATHEMATICAL METHODS | 20MA3T4 | M.Sc. MATHEMATICS | 2020-21 | Problem solving skill |
| 19 | ANALYTICAL NUMBER THEORY | 20MA3T5 | M.Sc. MATHEMATICS | 2020-21 | Problem Solving Skill: Solves problems related to analytic number theory. |
| 20 | RINGS AND MODULES | 20MA4T1 | M.Sc. MATHEMATICS | 2020-21 | Problem Solving Skill: solves systems of linear equations |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 21 | OPERATIONS RESEARCH | 20MA4T2 | M.Sc. MATHEMATICS | 2020-21 | problem solving skill&Employability skill: Solves problems associated with optimization of profits, Minimization of loss, project planning, supply chain management, operations management, scheduling and logistics, etc. |
| 22 | FUNCTIONAL ANALYSIS | 20MA4T3 | M.Sc. MATHEMATICS | 2020-21 | Problem solving skill:Solves some abstract problems in Functional analysis |
| 23 | MATHEMATICAL MODELLING | 20MA4T4 | M.Sc. MATHEMATICS | 2020-21 | Problem Solving Skill &Employability skill: Mathematically describe and understand real-world problems, situations and phenomena in order to find possible solutions and make predictions. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 24 | SEMINAR | 20MA4M1 | M.Sc. MATHEMATICS | 2020-21 | Problem solving skill: Common problems in numerical linear algebra include obtaining matrix decompositions like the singular value decomposition, the QR factorization, the LU factorization, or the eigendecomposition, which can then be used to answer common linear algebraic problems like solving linear systems of equations, locating eigenvalues, or least squares optimisation. |
| 25 | ALGEBRAIC CODING THEORY | 20 MA4T2B | M.Sc. MATHEMATICS | 2020-21 | Analytical &Research skill: Solves problems related to structure theorems for semigroups. |
| 26 | NON COMMUTATIVE RINGS | 20 MA4T2C | M.Sc. MATHEMATICS | 2020-21 | Problem solving skill: Represents vagueness and uncertainty in decision-making allowing  partial truths and have wide range of applications. |

**Criterion I - Curricular Aspects**     **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : M.Sc. MATHEMATICS**

**REGULATION -17**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 1 | REAL ANALYSIS-I | MA1T2 | M.Sc. MATHEMATICS | 2017-18 | Problem solving skill: It is concerned with limits, continuity, differentiation, and integration problem solving skills laying the groundwork for understanding the calculus and beyond. These concepts are not only foundational for advanced mathematical studies but also have applications in physics, engineering, and economics. |
| 2 | ORDINARY DIFFERENTIAL EQUATIONS | MA1T3 | M.Sc. MATHEMATICS | 2017-18 | Problem solving skill: 1.Formulation of differential equations 2. Finding Solutions of differential equations by various techniques |
| 3 | ADVANCED DISCRETE MATHEMATICS | MA1T5 | M.Sc. MATHEMATICS | 2017-18 | Problem solving skill |
| 4 | REAL ANALYSIS-II | MA2T2 | M.Sc. MATHEMATICS | 2017-18 | Problem solving skill: Solves problems related to functions of several variables and differential forms |
| 5 | PARTIAL DIFFERENTIAL EQUATIONS | MA2T3 | M.Sc. MATHEMATICS | 2017-18 | Problem solving skill: 1.Formulation of partial differential equations 2. Finding Solutions of partial differential equations by various techniques |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|---------------------------------------------------------------------------------------------|
| 6 | NUMERICAL METHODS WITH C | MA2T4 | M.Sc. MATHEMATICS | 2017-18 | Problem solving skill: solves problems using numerical approximation. It involves designing methods that give approximate but accurate numeric solutions, which is useful in cases where the exact solution is impossible or dificult to calculate. |
| 7 | COMPLEX ANALYSIS | MA3T2 | M.Sc. MATHEMATICS | 2017-18 | Problem solving skill: Solves problems of complex variables and functions. |
| 8 | LATTICE THEORY | **MA3T4** | M.Sc. MATHEMATICS | 2017-18 | Analytical & Research skill: Lattice theory, a fundamental component of mathematical structures, delves into how order relationships interact within a set, offering insights into algebraic and geometric principles. |
| 9 | OPERATIONS RESEARCH-I | **MA3T5** | M.Sc. MATHEMATICS | 2017-18 | Modelling &Problem solving: Solves problems associated with optimization of profits, Minimization of loss, project planning, supply chain management, operations management, scheduling and logistics, etc. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 10 | ADVANCED MATHEMATICAL TECHNIQUES | AC01 | M.Sc. MATHEMATICS | 2017-18 | Problem solving skill: The calculus of variations is a field of mathematics about solving optimization problems. This is done by minimizing and maximizing functionals. The methods of calculus of variations to solve optimization problems are very useful in |
| 11 | NONCOMMUTATIVE RINGS | MA4T1 | M.Sc. MATHEMATICS | 2017-18 | Analytical & Research skill: verification of relationships between different algebraic structures |
| 12 | MEASURE & INTEGRATION | MA4T2 | M.Sc. MATHEMATICS | 2017-18 | Analytical & Research skill: The theory and applications of the Lebesgue integral via measure theory can be used to solve a variety of problems in mathematics. |
| 13 | FUNCTIONAL ANALYSIS-II | MA4T3 | M.Sc. MATHEMATICS | 2017-18 | Analytical & Research skill: Solves some abstract problems in Functional analysis |
| 14 | ALGEBRAIC CODING THEORY | **MA4T4** | M.Sc. MATHEMATICS | 2017-18 | Modelling &Problem solving : Uses algebraic techniques to construct efficient codes and identifies the parameters of a given code. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 15 | OPERATIONS RESEARCH-II | MA4T5 | M.Sc. MATHEMATICS | 2017-18 | Modelling &Problem solving : Solves problems associated with optimization of profits, Minimization of loss, project planning, supply chain management, operations management, scheduling and logistics, etc. |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : MASTER OF BUSINESS ADMINISTRATION**

**REGULATION -22**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Management Process & Organizational Behavior | 22BA 101 | MBA | 2022-23 | Creating an idea about management and organsation behavioural principles and to become management consultant. |
| 2 | Managerial Economics | 22BA 102 | MBA | 2022-23 | Foudation Course for Different branches of Management |
| 3 | Business Environment | 22BA 103 | MBA | 2022-23 | under Employability. This course offers a comprehensive understanding of the |
| 4 | Financial Reporting and Analysis | 22BA 104 | MBA | 2022-23 | analyzing the financial statements using different techniques of Finanacial |
| 5 | Business Analytics for Managerial Decision Making | 22BA 105 | MBA | 2022-23 | The course Business Analytics for Managerial Decision Making falls under Employability. This course provides students with practical skills in data analysis and interpretation to support strategic decision-making in business contexts. Covering essential tools like data visualization, predictive modeling, and statistical analysis, students learn to transform data into actionable insights that drive business efficiency and growth. Employability Impact By mastering analytics tools and techniques, students become valuable candidates for roles in data-driven fields such as business analysis, management consulting, and operations planning. The course enhances employability by equipping students with in-demand analytical skills essential for making data-informed managerial decisions in today's competitive business environment. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 6 | Managerial Communication | 22BA 106 | MBA | 2022-23 | Improves employability skills |
| 7 | Personality Development through Life Enlightenment Skills | 22PG 101 | MBA | 2022-23 | The course Personality Development falls under Skill Development. This course focuses on enhancing personal attributes, |
| 8 | Legal framework of Business | 22GE02 | MBA | 2022-23 | Make the students aware about indutrial laws and helps in managing the small scale industries. |
| 9 | Emotional Intelligence and Managerial Effectiveness | 22GE03 | MBA | 2022-23 | Emotional Intelligence plays a vital role for balanced decision making |
| 10 | Spread Sheet for Business Analysis | 22BA 1L1 | MBA | 2022-23 | The course Spreadsheet for Business Analysis falls under Skill Development. This course provides hands-on training in using spreadsheets to perform essential business analyses, such as financial forecasting, budgeting, data visualization, and scenario analysis. Students learn functions, formulas, and data organization techniques to solve real-world business problems efficiently. **Skill Development Impact** By developing proficiency in spreadsheet tools, students gain a versatile skill set that enhances their analytical capabilities and attention to detail. This course supports skill development by equipping students with practical data handling and analysis skills that are widely applicable in fields such as finance, marketing, and operations, where spreadsheet proficiency is highly valued. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 11 | Basics of R Programming | 22 VA 1BA1 | MBA | 2022-23 | The course Basic R-Programming falls under Skill Development. This course introduces students to the fundamentals of R, a powerful programming language for statistical computing and data analysis. Students learn to perform data manipulation, visualization, and basic statistical analyses, building a foundation for more advanced data science applications. **Skill Development Impact** By learning R-programming, students acquire technical skills essential for data analytics, research, and statistical modeling roles. This course enhances skill development by equipping students with a sought-after programming skill that is widely applicable in industries like finance, healthcare, and technology, where data-driven decision-making is crucial. |
| 12 | Marketing Management | 22BA 201 | MBA | 2022-23 | Activities such as Case Studies, Market Simulation, Sales Pitch helps the students to get practical perspective and enhances their employability skills. |
| 13 | Human Resource Management | 22BA 202 | MBA | 2022-23 | To develop the students' ability to become a trainer in human resource management and development. |
| 14 | Financial Management | 22BA 203 | MBA | 2022-23 | Provides an understanding of the overall role and importance of the finance function and Demonstrates basic finance management knowledge |
| 15 | Entrepreneurship & Small Business Management | 22BA 204 | MBA | 2022-23 | Employability & Entrepreneurship Impact Students gain skills that are directly applicable to starting their own ventures or managing small businesses, enhancing self-employment opportunities. Additionally, the course nurtures employability in startup ecosystems and small business sectors where versatile, proactive management skills are in demand. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 16 | Research Methodology & IPR | 22PG 201 | MBA | 2022-23 | It falls under Skill Development. This course provides foundational skills in designing research, data analysis, and understanding the principles of intellectual property. Students learn methodologies for conducting effective research, interpreting results, and navigating the essentials of intellectual property laws, patents, trademarks, and copyrights. |
| 17 | Operations Management | 22BA 205 | MBA | 2022-23 | Provides skills in managing inventory, quality, and operations |
| 18 | Any Online Course NPTEL/SWAYAM/edX/Coursera/Stanford Online/ / OpenClassrooms/ UDEMY / Open2Study/ ALISON/ Khan Academy/ NSE-NCFM/IRDA/NISM/ Any course related to MBA from the authentic sources with prior permission. | 22GE06 | MBA | 2022-23 | Students are expose to be self learning mode and will be getting certifications by world leading MOOCs.This will be enchance students employbility skills |
| 19 | Consumer Behavior | 22BA 206(II) | MBA | 2022-23 | Imparts knowledge about consumers and their insights. |
| 20 | Selling & Negotiation skills | 22BA2L1 | MBA | 2022-23 | Exposing students to sell patch and Negotiton skills will enchance their employbility skills |

**99**

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : MASTER OF BUSINESS ADMINISTRATION**

**REGULATION -20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Managing People & Organizations | 20BA111 | MBA | 2020-21 | Creating an idea about management and organsation behavioural principles and to become management consultant. |
| 2 | Managerial Economics | 20BA112 | MBA | 2020-21 | Foudation Course for Different branches of Management |
| 3 | Quantitative Techniques for Business Decisions | 20BA117 | MBA | 2020-21 | It helps to solve Manegerial problems |
| 4 | Business, Government & Society | 20BA114 | MBA | 2020-21 | The dynamics of interplay among Business, Government and Society is explained with Roleplays, Delphi techniques helps the students to be employed in public and private sectors. |
| 5 | Managerial Communication | 20BA115 | MBA | 2020-21 | Improves employability skills |
| 6 | Accounting for Managers | 20BA116 | MBA | 2020-21 | Provides basic Understanding and application of course concepts to analyse common business management problems from a financial perspective |
| 7 | Growth Lab | 20GE01A | MBA | 2020-21 | Activities that persuade and helps in improving the overall personality to meet industry requirements. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 8 | Legal framework of Business | 20GE02 | MBA | 2020-21 | Make the students aware about indutrial laws and helps in managing the small scale industries. |
| 9 | Emotional Intelligence and Managerial Effectiveness | 20GE03 | MBA | 2020-21 | Emotional Intelligence plays a vital role for balanced decision making |
| 10 | Marketing Management | 20BA211 | MBA | 2020-21 | Activities such as Case Studies, Market Simulation, Sales Pitch helps the students to get practical perspective and enhances their employability skills. |
| 11 | Human Resource Management | 20BA212 | MBA | 2020-21 | To develop the students' ability to become a trainer in human resource management and development. |
| 12 | Financial Management | 20BA213 | MBA | 2020-21 | Provides an understanding of the overall role and importance of the finance function and Demonstrates basic finance management knowledge |
| 13 | Operations Management | 20BA214 | MBA | 2020-21 | Provides skills in managing inventory, quality, and operations |
| 14 | Business Research Methods | 20BA217 | MBA | 2020-21 | It helps to develop Research and Development |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 15 | Entrepreneurship Development & Business Models | 20BA216 | MBA | 2020-21 | Creating awareness to the students about entrepreneurship and its importance in the present scenario,and explaining the different business models to become entrepreneurs. |
| 16 | Life Skills | 20GE04 | MBA | 2020-21 | Taking choices of life and balancing with social norms |
| 17 | Industry and Business Domain Analysis | 20GE05 | MBA | 2020-21 | Enhances nalsing ability of any Industry /To Analyze company as well as Industry. |
| 18 | Any Online Course NPTEL/SWAYAM/edX/Coursera/Stanford Online/ / OpenClassrooms/ UDEMY / Open2Study/ ALISON/ Khan Academy/ NSE-NCFM/IRDA/NISM/ Any course related to MBA from the authentic sources with prior permission. | 20GE06 | MBA | 2020-21 | Students are expose to be self learning mode and will be getting certifications by world leading MOOCs.This will be enchance students employbility skills |
| 19 | Spread Sheet & Computerised Accounting Package | 20GE15 | MBA | 2020-21 | Simplify the data entry work and enables financial statements and automatic charts. |
| 20 | Strategic Management | 20BA311 | MBA | 2020-21 | To develop the strategic skills among the students to become a strategic planner and consultany. |
| 21 | Innovation Management | 20BA312 | MBA | 2020-21 | Exposing learners with business models, design thinking, and The Fifth Discipline of Peter Senge helps the learners to be more innovative and entrepreneurial in nature. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 22 | Operations Research | 20BA314 | MBA | 2020-21 | It helps to take Manegerial decision Making. |
| 23 | Consumer Behaviour & Marketing Research | 20BA321A | MBA | 2020-21 | Imparts knowledge about consumers and their insights. |
| 24 | Product and Brand Management | 20BA322 | MBA | 2020-21 | Helps to understand how branding plays a vital role in product management |
| 25 | Services Marketing | 20BA323 | MBA | 2020-21 | Activities such as Case Studies in service marketing helps the students to get practical perspective and enhances their employability skills. |
| 26 | Integrated Marketing Communications | 20BA324 | MBA | 2020-21 | The exposure to ad making, copy design, sales promotin techniques helps students to be placed in marketing jobs |
| 27 | Human Resource Planning | 20BA331 | MBA | 2020-21 | To develop the students' ability to become a trainer in human resource management and development. |
| 28 | Industrial Relations & Employment Laws | 20BA332 | MBA | 2020-21 | make the students aware about indutrial laws and helps in managing the small scale industries. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|--------------------|--------------------|-----------------------------------------------------------------------------------------------|
| 29 | Performance & Reward Management | 20BA333 | MBA | 2020-21 | To develop the students' ability to become a trainer in human resource management and development. |
| 30 | Organization Development and Change | 20BA334 | MBA | 2020-21 | Addresses and build the capacity to change and achieve greater effectiveness. |
| 31 | Financial Institutions & Markets | 20BA341 | MBA | 2020-21 | Enhances strong financial-analytical skills to solve investment problems in the area of financial markets and istruments. |
| 32 | Security Analysis & Portfolio Management | 20BA342 | MBA | 2020-21 | Meets industry requirement in providing knowledge about Portfolio management |
| 33 | Corporate Finance | 20BA343 | MBA | 2020-21 | Imparts knowledge that how corporations deal with funding sources, capital structuring, accounting, and investment decisions. |
| 34 | Mergers & Acquisitions | 20BA344 | MBA | 2020-21 | Case studies of various M&A will be disscussed.Students will be get critical understanding about how to take complex decisions |
| 35 | Business Opportunities in Emerging Economies | 20BA351 | MBA | 2020-21 | Business models, Startup ideas & scanning of Business Environment by contionous observation of Business News helps to students to enchane their entereprenenurial quotionent. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 36 | Basic Management Aspects of Startups and SMEs | 20BA352 | MBA | 2020-21 | conduction of startups satursdays by inveting enternurs helped our students to pursue innovative ideas. |
| 37 | Venture Capital & Private Equity | 20BA353 | MBA | 2020-21 | The Financing options provided by Venture Capital & Private Equity forms are disscussed.This will help in running business succesful |
| 38 | Entrepreneurial Ecosystem in India | 20BA354 | MBA | 2020-21 | To make the students to adapt the aculture of entrepreneurial eco-system |
| 39 | Leadership | 20GE08 | MBA | 2020-21 | To create awareness among the students about leadership traits,styles,theories to lead a business. |
| 40 | Creativity & Innovation | 20GE09 | MBA | 2020-21 | The lateral thinking skills are imparted coupled with simulation games will spur the creative quotient among learners. |
| 42 | MOOCS: NPTEL/SWAYAM/edX/Coursera/Stanfor d Online/Udacity/ OpenClassrooms/ Open2Study/ ALISON/ Khan Academy/ NSE-NCFM/IRDA/NISM/ Any course related to MBA from the authentic sources with prior permission. | 20GE10 | MBA | 2020-21 | Students are expose to be self learning mode and will be getting certifications by world leading MOOCs.This will be enchance students employbility skills |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 43 | Project Work | 20BA361 | MBA | 2020-21 | Students are expose to pratical knowledge in various outside organizations including Industrial establishment,service organizations,Goverenmental agenices.This will be enchance students employbility skills |
| 44 | International Business | 20BA411 | MBA | 2020-21 | Imparts knowlege to work in global business environment |
| 45 | Sales & Distribution Management | 20BA421 | MBA | 2020-21 | Enhances customer satisfaction and earning long-term loyalty by building stronger relationships between business and customer. |
| 46 | Retail Management | 20BA422 | MBA | 2020-21 | Helps to understand the functioning of Retail sector in India and managing retail business |
| 47 | International Marketing | 20BA423 | MBA | 2020-21 | To make the students competent to establish Export and Import business |
| 48 | Logistics and Supply Chain Management | 20BA424 | MBA | 2020-21 | Providespractical insghts in to managing supply chains |
| 49 | Rural &Agri Marketing | 20BA425 | MBA | 2020-21 | The learnings from this course will provide options to pusue career in rural and agri marketing and also opens the door for entrepreneurial ventures |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 50 | Strategic HRM | 20BA431 | MBA | 2020-21 | How HR function is going to align with the strategic goals of the organisation |
| 51 | Leadership& Team Management | 20BA432 | MBA | 2020-21 | To create awareness among the students about leadership traits,styles,theories to lead a business and aquip the students to build a team. |
| 52 | International HRM | 20BA433 | MBA | 2020-21 | Provides insights of administrative services for expatriates |
| 53 | Management of Change & Development | 20BA434 | MBA | 2020-21 | How change is going to play a role in managing the organization and its development |
| 54 | Stress Management | 20BA435 | MBA | 2020-21 | It helps how to manage the stress and live with stress |
| 55 | Financial Services | 20BA441 | MBA | 2020-21 | Enhances knowledge in financial concepts, theories and tools and to evaluate the legal, ethical and economic environment related to financial services. |
| 56 | Commodity Markets & Derivatives | 20BA442 | MBA | 2020-21 | enhances need of the hour skills in managing assets and liability risks |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|---------------------------------------------------------------------------------------------|
| 57 | Strategic Cost Management | 20BA443 | MBA | 2020-21 | Enhances specialised level of knowledge to reduce total costs while improving the strategic position of a business. |
| 58 | International Financial Management | 20BA444 | MBA | 2020-21 | Imparts knowledge in the Identification and appraisal of investment opportunities in the international environment along with exchange rate fluctuations and develop strategies to deal with them. |
| 59 | Financial Risk Management | 20BA445 | MBA | 2020-21 | Demonstrate knowledge of the range of financial and financial related risks facing organisations. |
| 60 | Family Business Management | 20BA451 | MBA | 2020-21 | Develops entreprenuerial skills,soft and hard skills,mangerial skills ,decision making skills etc to run the family business among the students. |
| 61 | Social Entrepreneurship | 20BA452 | MBA | 2020-21 | Creating awareness to the students about entrepreneurship and its importance in the present scenario,and making students to become social entrepreneurs. |
| 62 | Corporate Entrepreneurship | 20BA453 | MBA | 2020-21 | Meets the requirements of corporate trends and challenges. |
| 63 | Entrepreneurial Leadership | 20BA454 | MBA | 2020-21 | Develops the context of entrepreneurial leadership by achieving organisational innovation. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 64 | Global Entrepreneurial Ecosystem | 20BA455 | MBA | 2020-21 | Creating awareness to the students about entrepreneurship to become global leaders. |
| 65 | Employability Skills | 20GE11 | MBA | 2020-21 | To equip the students to develop soft and hard skille to fit into the present entrepreneurial environment with allround personality development. |
| 66 | MOOCS: NPTEL/SWAYAM/edX/Course era/Stanford Online/Udacity/ OpenClassrooms/ UDEMY Open2Study/ ALISON/ Khan Academy/ NSE-NCFM/IRDA/NISM/ Any course prior permission.related to MBA from the authentic sources with | 20GE12 | MBA | 2020-21 | Students are expose to be self learning mode and will be getting certifications by world leading MOOCs.This will be enchance students employbility skills |
| 67 | Selling & Negotiation Skills Lab | 20GE13 | MBA | 2020-21 | Exposing students to sell patch and Negotiton skills will enchance their employbility skills |
| 68 | Statistical Software Applications Lab | 20GE14 | MBA | 2020-21 | Traninig students to Solve help them with computerzied applicatios |
| 69 | Comprehensive Viva-voce | 20BA461 | MBA | 2020-21 | Outside experts will be testing the concept your understanding of the learner.This will be enchance students employbility skills |

**Criterion I - Curricular Aspects**        **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : MASTER OF BUSINESS ADMINISTRATION**

**REGULATION -17**

| S.NO | TITLE OF THE PAPER | COURSE CODE | Programme Name | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|----------------|----------------------|----------------------------------------------------------------------------------------------|
| 1 | Managing People & Organizations | BA111 | MBA | 2017-18 | Creating an idea about management and organsation behavioural principles and to become management consultant. |
| 2 | Managerial Economics | BA112 | MBA | 2017-18 | Foudation Course for Different branches of Management |
| 3 | Quantitative Techniques for Business Decisions | BA117 | MBA | 2017-18 | It helps to solve Manegerial problems |
| 4 | Business, Government & Society | BA114 | MBA | 2017-18 | The dynamics of interplay among Business, Government and Society is explained with Roleplays, Delphi techniques helps the students to be employed in public and private sectors. |
| 5 | Managerial Communication | BA115 | MBA | 2017-18 | Improves employability skills |
| 6 | Accounting for Managers | BA116 | MBA | 2017-18 | Provides basic Understanding and application of course concepts to analyse common business management problems from a financial perspective |
| 7 | Growth Lab | GE01A | MBA | 2017-18 | Activities that persuade and helps in improving the overall personality to meet industry requirements. |
| 8 | Legal framework of Business | GE02 | MBA | 2017-18 | Make the students aware about indutrial laws and helps in managing the small scale industries. |
| 9 | Emotional Intelligence and Managerial Effectiveness | GE03 | MBA | 2017-18 | Emotional Intelligence plays a vital role for balanced decision making |
| 10 | Marketing Management | BA211 | MBA | 2017-18 | Activities such as Case Studies, Market Simulation, Sales Pitch helps the students to get practical perspective and enhances their employability skills. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|---------------------|---------------------|---------------------------------------------------------------------------------------------|
| 11 | Human Resource Management | BA212 | MBA | 2017-18 | To develop the students' ability to become a trainer in human resource management and development. |
| 12 | Financial Management | BA213 | MBA | 2017-18 | Provides an understanding of the overall role and importance of the finance function and Demonstrates basic finance management knowledge |
| 13 | Operations Management | BA214 | MBA | 2017-18 | Provides skills in managing inventory, quality, and operations |
| 14 | Business Research Methods | BA217 | MBA | 2017-18 | It helps to develop Research and Development |
| 15 | Entrepreneurship Development & Business Models | BA216 | MBA | 2017-18 | Creating awareness to the students about entrepreneurship and its importance in the present scenario,and explaining the different business models to become entrepreneurs. |
| 16 | Life Skills | GE04 | MBA | 2017-18 | Taking choices of life and balancing with social norms |
| 17 | Industry and Business Domain Analysis | GE05 | MBA | 2017-18 | Enhances nalsing ability of any Industry /To Analyze company as well as Industry. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 18 | Any Online Course NPTEL/SWAYAM/edX/Coursera/Stanford Online/ / OpenClassrooms/ UDEMY / Open2Study/ ALISON/ Khan Academy/ NSE-NCFM/IRDA/NISM/ Any course related to MBA from the authentic sources with prior permission. | GE06 | MBA | 2017-18 | Students are expose to be self learning mode and will be getting certifications by world leading MOOCs.This will be enchance students employbility skills |
| 19 | Spread Sheet & Computerised Accounting Package | GE15 | MBA | 2017-18 | Simplify the data entry work and enables financial statements and automatic charts. |
| 20 | Strategic Management | BA311 | MBA | 2017-18 | To develop the strategic skills among the students to become a strategic planner and consultany. |
| 21 | Innovation Management | BA312 | MBA | 2017-18 | Exposing learners with business models, design thinking, and The Fifth Discipline of Peter Senge helps the learners to be more innovative and entrepreneurial in nature. |
| 22 | Business Analytics for Decision Making | BA313 | MBA | 2017-18 | It helps to take Manegerial decision Making. |
| 23 | Consumer Behaviour & Marketing Research | BA321 | MBA | 2017-18 | Imparts knowledge about consumers and their insights. |
| 24 | Product and Brand Management | BA322 | MBA | 2017-18 | Helps to understand how branding plays a vital role in product management |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|---------------------|---------------------|---------------------------------------------------------------------------------------------|
| 25 | Services Marketing | BA323 | MBA | 2017-18 | Activities such as Case Studies in service marketing helps the students to get practical perspective and enhances their employability skills. |
| 26 | Integrated Marketing Communications | BA324 | MBA | 2017-18 | The exposure to ad making, copy design, sales promotin techniques helps students to be placed in marketing jobs |
| 27 | Human Resource Planning | BA331 | MBA | 2017-18 | To develop the students' ability to become a trainer in human resource management and development. |
| 28 | Industrial Relations & Employment Laws | BA332 | MBA | 2017-18 | make the students aware about indutrial laws and helps in managing the small scale industries. |
| 29 | Performance & Reward Management | BA333 | MBA | 2017-18 | To develop the students' ability to become a trainer in human resource management and development. |
| 30 | Organization Development and Change | BA334 | MBA | 2017-18 | Addresses and build the capacity to change and achieve greater effectiveness. |
| 31 | Financial Institutions & Markets | BA341 | MBA | 2017-18 | Enhances strong financial-analytical skills to solve investment problems in the area of financial markets and istruments. |
| 32 | Security Analysis & Portfolio Management | BA342 | MBA | 2017-18 | Meets industry requirement in providing knowledge about Portfolio management |
| 33 | Corporate Finance | BA343 | MBA | 2017-18 | Imparts knowledge that how corporations deal with funding sources, capital structuring, accounting, and investment decisions. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 34 | Mergers & Acquisitions | BA344 | MBA | 2017-18 | Case studies of various M&A will be disscussed.Students will be get critical understanding about how to take complex decisions |
| 35 | Business Opportunities in Emerging Economies | BA351 | MBA | 2017-18 | Business models, Startup ideas & scanning of Business Environment by contionous observation of Business News helps to students to enchane their entereprenenurial quotionent. |
| 36 | Basic Management Aspects of Startups and SMEs | BA352 | MBA | 2017-18 | conduction of startups satursdays by inveting enternurs helped our students to pursue innovative ideas. |
| 37 | Venture Capital & Private Equity | BA353 | MBA | 2017-18 | The Financing options provided by Venture Capital & Private Equity forms are disscussed.This will help in running business succesful |
| 38 | Entrepreneurial Ecosystem in India | BA354 | MBA | 2017-18 | To make the students to adapt the aculture of entrepreneurial eco-system |
| 39 | Leadership | GE08 | MBA | 2017-18 | To create awareness among the students about leadership traits,styles,theories to lead a business. |
| 40 | Creativity & Innovation | GE09 | MBA | 2017-18 | The lateral thinking skills are imparted coupled with simulation games will spur the creative quotient among learners. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 42 | <u>MOOCS :NPTEL/SWAYAM/edX/Coursera/Stanford Online/Udacity/ OpenClassrooms/ Open2Study/ ALISON/ Khan Academy/ NSE-NCFM/IRDA/NISM/ Any course related to MBA from the authentic sources</u> | GE10 | MBA | 2017-18 | Students are expose to be self learning mode and will be getting certifications by world leading MOOCs.This will be enchance students employbility skills |
| 43 | Project Work | BA361 | MBA | 2017-18 | Students are expose to pratical knowledge in various outside organizations including Industrial establishment,service organizations,Goverenmental agenices.This will be enchance students employbility skills |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|---------------------------------------------------------------------------------------------|
| 44 | International Business | BA411 | MBA | 2017-18 | Imparts knowlege to work in global business environment |
| 45 | Sales & Distribution Management | BA421 | MBA | 2017-18 | Enhances customer satisfaction and earning long-term loyalty by building stronger relationships between business and customer. |
| 46 | Retail Management | BA422 | MBA | 2017-18 | Helps to understand the functioning of Retail sector in India and managing retail business |
| 47 | International Marketing | BA423 | MBA | 2017-18 | To make the students competent to establish Export and Import business |
| 48 | Logistics and Supply Chain Management | BA424 | MBA | 2017-18 | Providespractical insghts in to managing supply chains |
| 49 | Rural &Agri Marketing | BA425 | MBA | 2017-18 | The learnings from this course will provide options to pusue career in rural and agri marketing and also opens the door for entrepreneurial ventures |
| 50 | Strategic HRM | BA431 | MBA | 2017-18 | How HR function is going to align with the strategic goals of the organisation |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 51 | Leadership& Team Management | BA432 | MBA | 2017-18 | To create awareness among the students about leadership traits,styles,theories to lead a business and aquip the students to build a team. |
| 52 | International HRM | BA433 | MBA | 2017-18 | Provides insights of administrative services for expatriates |
| 53 | Management of Change & Development | BA434 | MBA | 2017-18 | How change is going to play a role in managing the organization and its development |
| 54 | Stress Management | BA435 | MBA | 2017-18 | It helps how to manage the stress and live with stress |
| 55 | Financial Services | BA441 | MBA | 2017-18 | Enhances knowledge in financial concepts, theories and tools and to evaluate the legal, ethical and economic environment related to financial services. |
| 56 | Commodity Markets & Derivatives | BA442 | MBA | 2017-18 | enhances need of the hour skills in managing assets and liability risks |
| 57 | Strategic Cost Management | BA443 | MBA | 2017-18 | Enhances specialised level of knowledge to reduce total costs while improving the strategic position of a business. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|---------------------------------------------------------------------------------------------|
| 58 | International Financial Management | BA444 | MBA | 2017-18 | Imparts knowledge in the Identification and appraisal of investment opportunities in the international environment along with exchange rate fluctuations and develop strategies to deal with them. |
| 59 | Financial Risk Management | BA445 | MBA | 2017-18 | Demonstrate knowledge of the range of financial and financial related risks facing organisations. |
| 60 | Family Business Management | BA451 | MBA | 2017-18 | Develops entreprenuerial skills,soft and hard skills,mangerial skills ,decision making skills etc to run the family business among the students. |
| 61 | Social Entrepreneurship | BA452 | MBA | 2017-18 | Creating awareness to the students about entrepreneurship and its importance in the present scenario,and making students to become social entrepreneurs. |
| 62 | Corporate Entrepreneurship | BA453 | MBA | 2017-18 | Meets the requirements of corporate trends and challenges. |
| 63 | Entrepreneurial Leadership | BA454 | MBA | 2017-18 | Develops the context of entrepreneurial leadership by achieving organisational innovation. |
| 64 | Global Entrepreneurial Ecosystem | BA455 | MBA | 2017-18 | Creating awareness to the students about entrepreneurship to become global leaders. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 65 | Employability Skills | GE11 | MBA | 2017-18 | To equip the students to develop soft and hard skille to fit into the present entrepreneurial environment with allround personality development. |
| 66 | MOOCS: NPTEL/SWAYAM/edX/Course era/Stanford Online/Udacity/ OpenClassrooms/ UDEMY Open2Study/ ALISON/ Khan Academy/ NSE-NCFM/IRDA/NISM/ Any course prior permission.related to MBA from the authentic sources with | GE12 | MBA | 2017-18 | Students are expose to be self learning mode and will be getting certifications by world leading MOOCs.This will be enchance students employbility skills |
| 67 | Selling & Negotiation Skills Lab | GE13 | MBA | 2017-18 | Exposing students to sell patch and Negotiton skills will enchance their employbility skills |
| 68 | Statistical Software Applications Lab | GE14 | MBA | 2017-18 | Traninig students to Solve  help them with computerzied applicatios |
| 69 | Comprehensive Viva-voce | BA461 | MBA | 2017-18 | Outside experts will be testing the concept your understanding of the learner.This will be enchance students employbility skills |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2: The  programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : MASTER OF COMPUTER APPLICATIONS**

**REGULATION -22**

## NAME OF THE PROGRAM : MASTER OF COMPUTER APPLICATIONS REGULATIONS  R22

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Problem Solving Using Python Programming | 22CA1T1 | MCA | 2022-23 | Employability in the Field of Information Technology by imparting  Skills  in PYTHON Programming. |
| 2 | Database Management Systems | 22CA1T2 | MCA | 2022-23 | Employability and skill development in the Field of Information Technology by acquiring knowledge in Database Management and imparting Knowledge by conducting Hands on workshops in Database Technologies. |
| 3 | Mathematical &Statistical Foundations | 22CA1T3 | MCA | 2022-23 | Employability in Teaching & Software Industries |
| 4 | Operating systems | 22CA1T4 | MCA | 2022-23 | Employability in the Field of Information Technology by organizing various workshop on OS Installation and Maintenance |
| 5 | Problem Solving Using Python Programming lab | 22CA1L1 | MCA | 2022-23 | Employability in the Field of Information Technology  and imparting Knowledge by conducting Hands on workshops in SQL & PL/SQL. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-----------|--------------------|--------------------|------------------------------------------------------|
| NAME OF THE PROGRAM : MASTER OF COMPUTER APPLICATIONS REGULATIONS  R22 | | | | | |
| 6 | Database Management Systems  Lab | 22CA1L2 | MCA | 2022-23 | Employability in the Field of Information Technology  and Teaching & Newoking Institutes and imparting knowledge by proving Hands on Training in Networking. |
| 7 | Computer Networks | 22CA2T1 | MCA | 2022-23 | Employability in the Field of Information Technology by acquiring knowledge in the application of Data Structures. |
| 8 | Data Structures | 22CA2T2 | MCA | 2022-23 | Employability in the Field of Information Technology  and imparting knowledge by proving Hands on Training in Web Technologies. |
| 9 | Web Technologies | 22CA2T3 | MCA | 2022-23 | Employability in the Field of Information Technology  and imparting knowledge by proving Hands on Training in Software Engineering Tools & Methodologies. |
| 10 | Software Engineering | 22CA2E1 | MCA | 2022-23 | Employability in the Field of Information Technology  and imparting knowledge by proving Hands on Training in software engineering . |

124

## NAME OF THE PROGRAM : MASTER OF COMPUTER APPLICATIONS REGULATIONS  R22

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 11 | Mobile applications | 22CA2E2 | MCA | 2022-23 | Employability in the Field of Information Technology  and imparting Knowledge by coducting Hands on workshops in Data Structures. |
| 12 | Unix Programming | 22CA2E3 | MCA | 2022-23 | Employability in the Field of Information Technology  and imparting Knowledge by coducting Hands on workshops in UNIX programming |
| 13 | Data Structures Lab | 22CA2L1 | MCA | 2022-23 | Employability in the Field of Information Technology  and imparting Knowledge by coducting Hands on workshops in Data Structures Lab |
| 14 | Web Technologies Lab | 22CA2L2 | MCA | 2022-23 | Employability in the Field of Information Technology  and imparting Knowledge by coducting Hands on workshops in Web technologies |

**Criterion I - Curricular Aspects**          **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : MASTER OF COMPUTER APPLICATIONS**

**REGULATION -20**

| | NAME OF THE PROGRAM : MASTER OF COMPUTER APPLICATIONS REGULATIONS R20 | | | | |
|---|---|---|---|---|---|
| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
| 1 | Computer Organization | 20CA1T2 | MCA | 2020-21 | Employability and skill development in the Field of Information Technology by imparting Skills in Python Programming |
| 2 | Software Engineering | 20CA1T3 | MCA | 2020-21 | Employability in the Field of Information Technology by providing Hands on Training on Hardware Technologies. |
| 3 | Database Management Systems | 20CA1T4 | MCA | 2020-21 | Employability in the Field of Information Technology and imparting knowledge by providing Hands on Training in Software Engineering Tools & Methodologies. |
| 4 | Discrete Mathematical Structures | 20CA1T5 | MCA | 2020-21 | Employability in the Field of Information Technology and imparting knowledge by providing Hands on Training in Software Engineering Tools & Methodologies. |
| 5 | Probabitlity &Statistics | 20CA1T6 | MCA | 2020-21 | Employability in Teaching & Software Industries |
| 6 | Problem Solving Using Python ProgrammingLab | 20CA1L1 | MCA | 2020-21 | Employability in Teaching & Software Industries |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|---------------------|---------------------------------------------------------------------------------------------|
| **NAME OF THE PROGRAM : MASTER OF COMPUTER APPLICATIONS REGULATIONS  R20** ||||||
| 7 | DBMS Lab | 20CA1L2 | MCA | 2020-21 | Employability in the Field of Information Technology by imparting Skills in Python Programming |
| 8 | Seminar | 20CA1S1 | MCA | 2020-21 | Employability in the Field of Information Technology and imparting Knowledge by conducting Hands on workshops in SQL & PL/SQL. |
| 9 | Data Mining Techniques | 20CA2T1 | MCA | 2020-21 | Employability in the Field of Information Technology and Teaching. |
| 10 | Operating Systems | 20CA2T2 | MCA | 2020-21 | Employability in the Field of Information Technology and imparting knowledge by providing Hands on Training on Data Mining Tools. |
| 11 | Data Structures | 20CA2T3 | MCA | 2020-21 | Employability in the Field of Information Technology by organizing various workshop on OS Installation and Maintenance |
| 12 | Computer Networks | 20CA2T4 | MCA | 2020-21 | Employability in the Field of Information Technology by acquiring knowledge in the application of Data Structures. |

| | NAME OF THE PROGRAM : MASTER OF COMPUTER APPLICATIONS REGULATIONS R20 | | | | |
|---|---|---|---|---|---|
| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
| 13 | Web Technologies | 20CA2T5 | MCA | 2020-21 | Employability in the Field of Information Technology and Teaching &Networking Institutes and imparting knowledge by providing Hands on Training in Networking. |
| 14 | Technical Report Writing | 20CA2T6 | MCA | 2020-21 | Employability in the Field of Information Technology and imparting knowledge by providing Hands on Training in Web Technologies. |
| 15 | English Communication Skills | 20OE01 | MCA | 2020-21 | Skill development |
| 16 | Web technologies Lab | 20CA2L1 | MCA | 2020-21 | Skill development |
| 17 | Data Structures Lab | 20CA2L2 | MCA | 2020-21 | Employability and skill develpment in the Field of Information Technology and imparting knowledge by providing Hands on Training in Web Technologies. |
| 18 | Big Data and Analytics | 20CA3T1 | MCA | 2020-21 | Employability in the Field of Information Technology and imparting knowledge by providing Hands on Training in Web Technologies. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-------------------------------------------------------------------------------------------|
| | **NAME OF THE PROGRAM : MASTER OF COMPUTER APPLICATIONS REGULATIONS R20** | | | | |
| 19 | Artificial Intelligence & Mach | 20CA3T2 | MCA | 2020-21 | Employability in the Field of Information Technology and Teaching. |
| 20 | Design & Analysis of Algorith | 20CA3T3 | MCA | 2020-21 | Employability in the Field of Information Technology. |
| 21 | Cloud Computing | 20CA3T4 | MCA | 2020-21 | Employability in the Field of Information Technology and Teaching. |
| 22 | Block Chain technology | 20CA3T4i | MCA | 2020-21 | Employability Skill |
| 23 | Cryptography and Network security | 20CA3T5 | MCA | 2020-21 | Employability in the Field of Information Technology by and imparting knowledge by organizing various Hands on workshop on Cloud Services. |
| 24 | Internet of Things(IoT) | 20CA3T5i | MCA | 2020-21 | Employability Skill |
| 25 | Big Data and Analytics Lab | 20CA3L1 | MCA | 2020-21 | Employability in the Field of Information Technology by and imparting knowledge by organizing various guest lectures |
| 26 | Data Mining Lab | 20CA3L2 | MCA | 2020-21 | Employability in the Field of Information Technology by and imparting knowledge by organizing various Hands on workshop on Cloud Services. |

| | NAME OF THE PROGRAM : MASTER OF COMPUTER APPLICATIONS REGULATIONS  R20 | | | | |
|---|---|---|---|---|---|
| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
| 27 | Optimization Techniques | 20OE09 | MCA | 2020-21 | Employability in the Field of Information Technology by and imparting knowledge by  organizing various Hands on  workshop on Cloud Services. |
| 28 | Block Chain and its Application | 20CA4M1 | MCA | 2020-21 | Employability in the Field of Information Technology by and imparting knowledge by  organizing various Hands on  workshop on Cloud Services. |
| 29 | Data Wrangling and Data Visualization | 20CA4T1 | MCA | 2020-21 | Skill Development |
| 30 | Applied Data Analysis | 20CA4T2 | MCA | 2020-21 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on   Data Wrangling and Data Visualization Technologies. |
| 31 | Deep Learning | 20CA4T3 | MCA | 2020-21 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on   Applied Data Analysis Technologies. |
| 32 | Project Work | 20CA4P1 | MCA | 2020-21 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on   Deep Learning Technologies. |

**Criterion I - Curricular Aspects**           **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : MASTER OF COMPUTER APPLICATIONS**

**REGULATION -17**

| NAME OF THE PROGRAM : MASTER OF COMPUTER APPLICATIONS REGULATIONS  R 17 | | | | | |
|---|---|---|---|---|---|
| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
| 1 | Introduction to Information Technology | CA1T1 | MCA | 2017-18 | Employability in the Field of Information Technology by providing Hands on Workshop on Office Automation Tools, Computer Hardware & Networking |
| 2 | C Programming and Problem Solving | CA1T2 | MCA | 2017-18 | Employability in the Field of Information Technology by imparting  Skills  in C Programming |
| 3 | Computer Organization | CA1T3 | MCA | 2017-18 | Employability in the Field of Information Technology by providing Hands on Training on Hardware Technologies. |
| 4 | Discrete Mathematical Structures | CA1T4 | MCA | 2017-18 | Employability in Teaching & Software Industries |
| 5 | Accounting & Financial Management | CA1T5 | MCA | 2017-18 | Employability in the fields of Information Technology and Accounting Firms. |
| 6 | Information Technology Lab | CA1L1 | MCA | 2017-18 | Employability in the Field of Information Technology by providing Knowledge  on Office Automation Tools, Computer Hardware & Networking. |

| | | | | | |
|---|---|---|---|---|---|
| 7 | C Programming Lab | CA1L2 | MCA | 2017-18 | Employability in the Field of Information Technology by imparting  Skills  in C Programming. |
| 8 | Certification Course offered by MOOCS provides such as NPTEL/Swayam/Edx/Coursera/Udacity/Udemy etc. | CA1M1 | MCA | 2017-18 | Skill enhancement for Employability in the field of Information Technology |
| 9 | Operating Systems | CA2T1 | MCA | 2017-18 | Employability in the Field of Information Technology by organizing various workshop on OS Installation and Maintenance |
| 10 | Object Oriented Programming | CA2T2 | MCA | 2017-18 | Employability in the Field of Information Technology by providing Hands on Workshops on Object Oriented Technologies |
| 11 | Data Structures | CA2T3 | MCA | 2017-18 | Employability in the Field of Information Technology by acquiring knowledge in the application of Data Structures |
| 12 | Database Management Systems | CA2T4 | MCA | 2017-18 | Employability in the Field of Information Technology by acquiring knowledge in Database Management and imparting Knowledge by coducting Hands on workshops in Database Technologie. |

| NAME OF THE PROGRAM : MASTER OF COMPUTER APPLICATIONS REGULATIONS  R 17 | | | | | |
|---|---|---|---|---|---|
| 13 | Probability & Statistics | CA2T5 | MCA | 2017-18 | Employability in the Field of Information Technolgy & Statistics. |
| 14 | Data Structures Lab using JAVA | CA2L1 | MCA | 2017-18 | Employability in the Field of Information Technology and imparting Knowledge by coducting Hands on workshops in Data Structures. |
| 15 | DBMS Lab | CA2L2 | MCA | 2017-18 | Employability in the Field of Information Technology and imparting Knowledge by coducting Hands on workshops in SQL & PL/SQL. |
| 16 | Seminar II | CA2S1 | MCA | 2017-18 | Employability in the Field of Information Technology and Teaching. |
| 17 | Design and Analysis of Algorithms | CA3T1 | MCA | 2017-18 | Employability in the Field of Information Technology and Teaching. |
| 18 | Computer Networks | CA3T2 | MCA | 2017-18 | Employability in the Field of Information Technology and Teaching & Newoking Institutes and imparting knowledge by proving Hands on Training in Networking. |

| 19 | Web Technologies | CA3T3 | MCA | 2017-18 | Employability in the Field of Information Technology  and imparting knowledge by proving Hands on Training in Web Technologies. |
|---|---|---|---|---|---|
| 20 | Software Engineering | CA3T4 | MCA | 2017-18 | Employability in the Field of Information Technology  and imparting knowledge by proving Hands on Training in Software Engineering Tools & Methodologies. |
| 21 | Operations Research | CA3T5 | MCA | 2017-18 | Employability in the Field of Information Technology  and other domains. |
| 22 | Computer Networks and Operating Systems Lab | CA3L1 | MCA | 2017-18 | Employability in the Field of Information Technology & Networking and imparting knowledge  by providing Hands on Training on OS installation and Networking |
| 23 | Web Technologies Lab | CA3L2 | MCA | 2017-18 | Employability in the Field of Information Technology  and imparting knowledge by proving Hands on Training in Web Technologies. |
| 24 | Seminar III | CA3S1 | MCA | 2017-18 | Employability in the Field of Information Technology  and Teaching. |

| | NAME OF THE PROGRAM : MASTER OF COMPUTER APPLICATIONS REGULATIONS  R 17 | | | | |
|---|---|---|---|---|---|
| 25 | Data Mining Techniques | CA4T1 | MCA | 2017-18 | Employability in the Field of Information Technology  and imparting knowledge by proving Hands on Training on Data Mining Tools. |
| 26 | Mobile Computing | CA4T2 | MCA | 2017-18 | Employability in the Field of Information Technology  and Electronics and imparting Knowledge by providing Hands on Training on Mobile Technologies. |
| 27 | Cryptography & Network Security | CA4T3 | MCA | 2017-18 | Employability in the Field of Information Technology  and imparting Knowledge by providing training to develop Cryptography & Network Security Algorithms. |
| 28 | Theory of Computation | CA4T4 | MCA | 2017-18 | Employability in Compiler Design and Natural Language Processing. |
| 29 | Advanced Database Management System | CA4T5A | MCA | 2017-18 | Employability in the Field of Information Technology  and imparting Knowledge by providing Hands on  Training on Advanced Database Technologies. |
| 30 | TCP/IP | CA4T5B | MCA | 2017-18 | Employability in the Field of Information Technology  and Netwoking and imparting Knowledge by provinding Hands on Training on writing TCP/IP Protocols. |

| 31 | Software Testing | CA4T5C | MCA | 2017-18 | Employability in the Field of Information Technology  and Netwoking and imparting Knowledge by provinding Hands on Training on Teting Tools. |
| 32 | Distributed Operating Systems | CA4T5D | MCA | 2017-18 | Employability in the Field of Information Technology and imparting knowledge by organizing various workshop on OS Installation and Maintenance. |
| 33 | Cloud Computing | CA4T5E | MCA | 2017-18 | Employability in the Field of Information Technology by and imparting knowledge by organizing various Hands on  workshop on Cloud Services. |
| 34 | Microprocessors and Interfacing | CA4T5F | MCA | 2017-18 | Employability in the Field of information Technology by organizing various Hands on workshop on Cloud Services. |
| 35 | Data Mining Lab | CA4L1 | MCA | 2017-18 | Employability in the Field of Information Technology  and imparting knowledge by proving Hands on Training on Data Mining Tools. |
| 36 | Mobile Computing Lab | CA4L2 | MCA | 2017-18 | Employability in the Field of Information Technology  and Electronics and imparting Knowledge by providing Hands on Training on Mobile Technologies. |

| NAME OF THE PROGRAM : MASTER OF COMPUTER APPLICATIONS REGULATIONS  R 17 | | | | | |
|---|---|---|---|---|---|
| 37 | Mini Project I | CA4P1 | MCA | 2017-18 | Employability in the Field of Information Technology  and imparting Knowledge by providing Internships / Project Based Training. |
| 38 | Data Sciences | CA5T1 | MCA | 2017-18 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on  Data Science Technologies. |
| 39 | Dot Net Programming | CA5T2 | MCA | 2017-18 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on .Net Frame Work. |
| 40 | Artifical Intelligence & Machine Learning | CA5T3 | MCA | 2017-18 | Employability in the Field of Information Technology. |
| 41 | Prinicples of Distributed Databases | CA5T4A | MCA | 2017-18 | Employability in the Field of Information Technology  and imparting Knowledge by providing Hands on  Training on Distributed  Database Technologies. |
| 42 | Mobile Adhoc Networks | CA504.216 | MCA | 2017-18 | Employability in the Field of Information Technology  and  and imparting Knowledge by providing Hands on Training on Mobile Technologies and Mobile Networking. |

| 43 | Software Design Patterns | CA504.316 | MCA | 2017-18 | Employability in the Field of Information Technology  and  and imparting Knowledge by providing Hands on Training on Pattern Recognization Algorithms. |
| 44 | Neural Networks | CA5T4D | MCA | 2017-18 | Employability in the Field of Information Technology  and  and imparting Knowledge by providing Hands on Training on Neural Networks Algorithms. |
| 45 | Image Processing | CA504.516 | MCA | 2017-18 | Employability in the Field of Information Technology  and  and imparting Knowledge by providing Hands on Training on Image Processing Algorithms. |
| 46 | Compiler Design | CA504.616 | MCA | 2017-18 | Employability in the Field of  Hardware Technology  and  and imparting Knowledge by providing Hands on Training on the design of Compiler. |
| 47 | Embedded Systems | CA505.116 | MCA | 2017-18 | Employability in the Field of  Hardware Technology  and  and imparting Knowledge by providing Hands on Training on the Embedded Systems. |
| 48 | Information Systems Auditing | CA505.216 | MCA | 2017-18 | Employability in the Field of  Information Technology  and  and imparting Knowledge by providing Hands on Training on Information System Audit Procedures. |

| 49 | Internet of Things | CA5T5i | MCA | 2017-18 | Employability in the Field of  Information Technology / Hardware Technology and  and imparting Knowledge by providing Hands on Training on the Applications of Internet of Things. |
| 50 | Vedic Computing | CA505.416 | MCA | 2017-18 | Employability in the Field of  Information Technology / Vedic Sciences. |
| 51 | Simulation and Analysis | CA505.516 | MCA | 2017-18 | Employability in the Field of Information Technology  and  and imparting Knowledge by providing Hands on Training on Simutation & Analysis Tools. |
| 52 | Dot Net Programming Lab | CA5L1 | MCA | 2017-18 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on .Net Frame Work. |
| 53 | Data Sciences Lab | CA5L2 | MCA | 2017-18 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on  Data Science  Technologies. |
| 54 | Technical Report Writing | CA508P16 | MCA | 2017-18 | Employability in the Field of Research & Development of Information Technology   and in Teaching. |
| 55 | Project Work(Industry Campus) | CA5P1 | MCA | 2017-18 | Employability in the Field of Information Technology and imparting Knowledge by providing Internshipa or Hands on Training  on Projects. |

**Criterion I - Curricular Aspects**  **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : M.Sc. PHYSICS**

**REGULATION -22**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | CLASSICAL MECHANICS | 22PH1T1 | MSC PHYSICS | 2022-23 | The student learns basic laws of physics applied at macroscopic level |
| 2 | MATHEMATICAL PHYSICS | 22PH1T2 | MSC PHYSICS | 2022-23 | Different mathematical methods will improve the skill of student to solve problems |
| 3 | ATOMIC AND MOLECULAR PHYSICS | 22PH1T3 | MSC PHYSICS | 2022-23 | Learn different atomic & molecular spectroscopic techniques |
| 4 | ELECTRONICS | 22PH1T4 | MSC PHYSICS | 2022-23 | Understands the theory of opamp, digital circuits and microprocessor |
| 5 | PERSONALITY DEVELOPMENT THROUGH LIFE ENLIGHTENMENT SKILLS | 22PG101 | MSC PHYSICS | 2022-23 | Helps the student to develop life skills |
| 6 | GENERAL PHYSICS LAB-I | 22PH1L1 | MSC PHYSICS | 2022-23 | Learns working on equipment related to theory |
| 7 | ELECTRONICS LAB-I | 22PH1L2 | MSC PHYSICS | 2022-23 | Learns different experiments which may help for employment |
| 8 | STATISTICAL MECHANICS | 22PH2T1 | MSC PHYSICS | 2022-23 | Learns different particle distributions which will help in other courses also |
| 9 | QUANTUM MECHANICS-I | 22PH2T2 | MSC PHYSICS | 2022-23 | Learns about different quantum mechanical systems |
| 10 | SOLIDSTATE PHYSICS | 22PH2T3 | MSC PHYSICS | 2022-23 | Learns the internal strucure of solids and properties |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 11 | RESEARCH METHODOLOGY& IPR | 22PG201 | MSC PHYSICS | 2022-23 | Student learns methods of research |
| 12 | COMPUTATIONAL METHODS & C PROGRAMMING | 22PH2D1 | MSC PHYSICS | 2022-23 | Learns C programming and different numerical methods which may help in employment |
| 13 | GENERAL PHYSICS LAB-II | 22PH2L1 | MSC PHYSICS | 2022-23 | To apply the theoritical principless of physics to relevent equipment which may help in employment |
| 14 | C – PROGRAMMING AND MICROPROCESSOR | 22PH2L2 | MSC PHYSICS | 2022-23 | Student learns C-programming & microprocessor programming |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : M.Sc. PHYSICS**

**REGULATION -20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 1 | CLASSICAL MECHANICS | 20PH1T1 | MSC PHYSICS | 2020-21 | The student learns basic laws of physics applied at macroscopic level |
| 2 | MATHEMATICAL PHYSICS | 20PH1T2 | MSC PHYSICS | 2020-21 | Different mathematical methods will improve the skill of student to solve problems |
| 3 | ATOMIC AND MOLECULAR SPECROSCOPY | 20PH1T3 | MSC PHYSICS | 2020-21 | Learn different atomic & molecular spectroscopic techniques |
| 4 | ELECTRONICS | 20PH1T4 | MSC PHYSICS | 2020-21 | Understands the theory of opamp, digital circuits and microprocessor |
| 5 | GENERAL PHYSICS LAB-I | 20PH1L1 | MSC PHYSICS | 2020-21 | Learns working on equipment related to theory |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 6 | ELECTRONICS LAB-I | 20PH1L2 | MSC PHYSICS | 2020-21 | Learns different experiments which may help for employment |
| 7 | STATISTICAL MECHANICS | 20PH2T1 | MSC PHYSICS | 2020-21 | Learns different particle distributions which will help in other courses also |
| 8 | QUANTUM MECHANICS-I | 20PH2T2 | MSC PHYSICS | 2020-21 | Learns about different quantum mechanical systems |
| 9 | COMPUTATIONAL METHODS & C PROGRAMMING | 20PH2T3 | MSC PHYSICS | 2020-21 | Learns C programming and different numerical methods which may help in employment |
| 10 | SOLIDSTATE PHYSICS | 20PH2T4 | MSC PHYSICS | 2020-21 | Learns the internal strucure of solids and properties |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|---------------------------------------------------------------------------------------------|
| 11 | GENERAL PHYSICS LAB-II | 20PH2L1 | MSC PHYSICS | 2020-21 | To apply the theoritical princlpless of physics to relevent equipment which may help in employment |
| 12 | C – PROGRAMMING AND MICROPROCESSOR | 20PH2L2 | MSC PHYSICS | 2020-21 | Student learns C-programming & microprocessor programming |
| 13 | QUANTUM MECHANICS-II | 20PH3T1 | MSC PHYSICS | 2020-21 | Learns about 3D problems and molecular quantum mechanics |
| 14 | ELECTRO MAGNETIC THEORY ,LASERS AND MODERN OPTICS | 20PH3T2 | MSC PHYSICS | 2020-21 | Learns the basics of  electromagnetic theory, lasers and modern optics |
| 15 | NUCLEAR AND PARTICAL PHYSICS | 20PH3T3 | MSC PHYSICS | 2020-21 | To learn the basic concepts of Nuclear physics |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 16 | CONDENSED MATTER PHYSICS-I | 20PH3T4 | MSC PHYSICS | 2020-21 | To understand the different properties of materials |
| 17 | ELECTRONIC DEVICES | 20PH3T4B | MSC PHYSICS | 2020-21 | To understand the working of various electronic devices |
| 18 | DIGITAL ELECTRONICS | 20PH3T4B | MSC PHYSICS | 2020-21 | Learns about all digital circuits |
| 19 | FUNDAMENTALS OF ANALYTICAL INSTRUMENTS | 20PH3T5 | MSC PHYSICS | 2020-21 | To learn the instrumentation of different techniques |
| 20 | ADVANCED PHYSICS AND OPTICS LAB | 20PH3L1 | MSC PHYSICS | 2020-21 | To gain kolwledge through experimentaion in optics and general physics |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 21 | ELECTRONICS IC VERSION LAB | 20PH3L2 | MSC PHYSICS | 2020-21 | Design and construct the circuits with integratd circuits |
| 22 | ANALYTICAL TECHNIQUES | 20PH4T1 | MSC PHYSICS | 2020-21 | To unserstand the basic principals of analytical instruments |
| 23 | ADVANCES IN MATERIALS SCIENCE | 20PH4T2 | MSC PHYSICS | 2020-21 | To study the properties of different materials throgh analytical methods |
| 24 | THERMAL PHYSICS (ELECTIVE THROUGH MOOCS) | 20PH4T3 | MSC PHYSICS | 2020-21 | To learn the basics of thermal physics |
| 25 | ANLOG AND DIGITAL COMMUNICATION | 20PH4T3B | MSC PHYSICS | 2020-21 | To learn the different processes of analog and digital communication system |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 26 | CONDENSED MATTER PHYSICS-II | 20PH4T4 | MSC PHYSICS | 2020-21 | To understand the concepts of advanced materials |
| 27 | MICRO PROCESSOR AND CONTROLLERS | 20PH4T4B | MSC PHYSICS | 2020-21 | To study the architecture of microprocessors and controller |
| 28 | CONDENSED MATTER PHYSICS LAB | 20PH4L1 | M.Sc PHYSICS | 2020-21 | aquiring knowedge through experimens related to theory |
| 29 | PROJECT WORK | 20PH4P1 | MSC PHYSICS | 2020-21 | To gain koledge through study or theoritical projects with outside class roo m |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : M.Sc. PHYSICS**

**REGULATION -17**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 1 | MATHEMATICAL PHYSICS | PH1T1 | M.Sc PHYSICS | 2017-18 | skill development : Different mathematical methods will improve the skill of student to solve problems |
| 2 | CLASSICAL MECHANICS | PH1T2 | M.Sc PHYSICS | 2017-18 | The student learns basic laws of physics applied at macroscopic level |
| 3 | QUANTUM MECHANICS - I | PH1T3 | M.Sc PHYSICS | 2017-18 | Learns about different quantum mechanical systems |
| 4 | ELECTRONICS | PH1T4 | M.Sc PHYSICS | 2017-18 | Understands the theory of opamp, digital circuits and microprocessor |
| 5 | GENERAL PHYSICS LAB-I | PH1L1 | M.Sc PHYSICS | 2017-18 | Learns working on equipment related to theory |
| 6 | ELECTRONICS LAB-I | PH1L2 | M.Sc PHYSICS | 2017-18 | Learns different experiments which may help for employment |
| 7 | ELECTROMAGNETIC THEORY | PH2T1 | M.Sc PHYSICS | 2017-18 | Learns the basics of electromagnetic theory |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|--------------------|--------------------|------------------------------------------------------------|
| 8 | QUANTUM MECHANICS-II | PH2T2 | M.Sc PHYSICS | 2017-18 | Learns about 3D problems and molecular quantum mechanics |
| 9 | STATISTICAL MECHANICS | PH2T3 | M.Sc PHYSICS | 2017-18 | Learns different particle distributions which will help in other courses also |
| 10 | SOLIDSTATE PHYSICS | PH2T4 | M.Sc PHYSICS | 2017-18 | Learns the internal strucure of solids and properties |
| 11 | GENERAL PHYSICS LAB-II | PH2L1 | M.Sc PHYSICS | 2017-18 | To apply the theoritical principless of physics to relevent equipment which may help in employment |
| 12 | ELECTRONICS LAB-II | PH2L2 | M.Sc PHYSICS | 2017-18 | Learns logic circuits and to verify the results which may help in employment |
| 13 | COMPUTATIONAL METHODS AND C PROGRAMMING | PH3T1 | M.Sc PHYSICS | 2017-18 | Learns C programming and different numerical methods which may help in employment |
| 14 | ADVANCED QUANTUM MECHANICS | PH3T2 | M.Sc PHYSICS | 2017-18 | To understand the basic principles of EM theory ,lasers and modern optics |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|------------------------------------------------------------------------------------------|
| 15 | MOLECULAR PHYSICS | PH3T3A | M.Sc PHYSICS | 2017-18 | Learn different molecular spectroscopic techniques |
| 16 | ELECTRONIC DEVICES | PH3T3B | M.Sc PHYSICS | 2017-18 | To understand the working of various electronic devices |
| 17 | CONDENSED MATTER PHYSIC | PH3T4A | M.Sc PHYSICS | 2017-18 | To understand the different properties of materials |
| 18 | DIGITAL ELECTRONICS | PH3T4B | M.Sc PHYSICS | 2017-18 | Learns about all digital circuits |
| 19 | ADVANCED PHYSICS AND OPTICS LAB | PH3L1 | M.Sc PHYSICS | 2017-18 | To gain kolwledge through experimentaion in optics and general physics |
| 20 | ELECTRONICS IC VERSION LA | PH3L2 | M.Sc PHYSICS | 2017-18 | Design and construct the circuits with integratd circuits |
| 21 | NUCLEAR AND PARTICLE PHY | PH4T1 | M.Sc PHYSICS | 2017-18 | To learn the basic concepts of Nuclear physics |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 22 | ANALYTICAL TECHNIQUES | PH4T2 | M.Sc PHYSICS | 2017-18 | To unserstand the basic principals of analytical instruments |
| 23 | CONDENSED MATTER PHYSIC | PH4T3A | M.Sc PHYSICS | 2017-18 | To study the properties of different materials throgh analytical methods |
| 24 | ANALOG AND DIGITAL COMM | PH4T3B | M.Sc PHYSICS | 2017-18 | To learn the different processes of analog and digital communication system |
| 25 | CONDENSED MATTER PHYSIC | PH4T4A | M.Sc PHYSICS | 2017-18 | To understand the concepts of advanced materials |
| 26 | MICRO PROCESSOR AND CONTROLLER | PH4T4B | M.Sc PHYSICS | 2017-18 | To study the architecture of microprocessors and controller |
| 27 | CONDENSED MATTER PHYSIC | PH4L1 | M.Sc PHYSICS | 2017-18 | aquiring knowedge through experimens related  to theory |
| 28 | PROJECT WORK | PH4P1 | M.Sc PHYSICS | 2017-18 | To gain koledge through study or theoritical projects with outside class room |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

       **NAME OF THE DEPARTMENT**  **: Artificial intelligence and Data Science**
       **NAME OF THE PROGRAM**     **: B.Sc. (AIML & MSDS)**

             **REGULATION -20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Introduction to Data Science with R | DSCT11 | B.Sc(M.S.Ds) | **2019-22** | This course enables students to impart skill and encourage them to develop employability |
| 2 | Introduction to Data Science with R Lab | DSCP11 | B.Sc(M.S.Ds) | **2019-22** | Lab course enables students for skill development |
| 3 | Functional Programming using Python | DSCT21 | B.Sc(M.S.Ds) | **2019-22** | This course enables students to impart skill and encourage them to develop employability |
| 4 | Functional Programming using Python: Lab | DSCP21 | B.Sc(M.S.Ds) | **2019-22** | Lab course enables students for skill development |
| 5 | Introduction to Python Programming | DSCT11A | B.Sc(M.S.Ds) | **2020-23** | This course enables students to impart skill and encourage them to develop employability |
| 6 | Introduction to Python Programming Lab | DSCP11A | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |
| 7 | Data Structures using Python | DSCT21A | B.Sc(M.S.Ds) | **2020-23** | This course enables students to impart skill and encourage them to develop employability |
| 8 | Data Structures using Python Lab | DSCP21A | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |
| 9 | Introduction to Data Science with R | DSCT11 | B.Sc(M.S.Ds) | **2020-23** | This course enables students to impart skill and encourage them to develop employability |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 10 | Introduction to Data Science with R Lab | DSCP11 | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |
| 11 | Functional Programming using Python | DSCT21 | B.Sc(M.S.Ds) | **2020-23** | This course enables students to impart skill and encourage them to develop employability |
| 12 | Functional Programming using Python: Lab | DSCP21 | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |
| 13 | Introduction to Data Science with R | DSCT11 | B.Sc(M.S.Ds) | **2020-23** | This course enables students to impart skill and encourage them to develop employability |
| 14 | Introduction to Data Science with R Lab | DSCP11 | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |
| 15 | Functional Programming using Python | DSCT21 | B.Sc(M.S.Ds) | **2020-23** | This course enables students to impart skill and encourage them to develop employability |
| 16 | Functional Programming using Python: Lab | DSCP21 | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |
| 17 | Elements Of R-Programming | DSCT31A | B.Sc(M.S.Ds) | **2020-23** | This course enables students to impart skill and encourage them to develop employability |
| 18 | Elements Of R-Programming Lab | DSCP31A | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|---------------------------------------------------------------------------------------------|
| 19 | Database Management Systems | DSCT41 | B.Sc(M.S.Ds) | **2020-23** | This course enables students to impart managing the database and encourage them to develop employability |
| 20 | Introduction To Java Programming | DSCT01 | B.Sc(M.S.Ds) | **2020-23** | This course enables students to impart skill development and encourage them to develop employability |
| 21 | Database Management Systems Lab | DSCP41 | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |
| 22 | Introduction To Java Programming Lab | DSCP01 | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |
| 23 | Elements Of R-Programming | DSCT31B | B.Sc(M.S.Ds) | **2020-23** | This course enables students to impart skill development and encourage them to develop employability |
| 24 | Elements Of R-Programming Lab | DSCP31B | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |
| 25 | Database Management Systems | DSCT41 | B.Sc(M.S.Ds) | **2020-23** | This course enables students to impart managing the database and encourage them to develop employability |
| 26 | Database Management Systems Lab | DSCP41 | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 27 | Introduction To Java Programming | DSCT01 | B.Sc(M.S.Ds) | **2020-23** | This course enables students to impart skill development and encourage them to develop employability |
| 28 | Introduction To Java Programming Lab | DSCP01 | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |
| 29 | Introduction To Machine Learning | DSCSET01 | B.Sc(M.S.Ds) | **2020-23** | This course enables the students to develop own employabality by research in different problem areas |
| 30 | Introduction To Machine Learning Lab | DSCSEP01 | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |
| 31 | Big Data Technology | DSCSET02 | B.Sc(M.S.Ds) | **2020-23** | This course enables the students to develop own employabality by research in different problem areas |
| 32 | Big Data Technology Lab | DSCSEP02 | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |
| 33 | Data Mining And Data Analysis | DSCSET03 | B.Sc(M.S.Ds) | **2020-23** | This course enables the students to develop own employabality by research in different problem areas |
| 34 | Data Mining And Data Analysis Lab | DSCSEP03 | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |
| 35 | Multivariate Technique For Data Analysis | DSCSET04 | B.Sc(M.S.Ds) | **2020-23** | This course enables the students to develop own employabality by research in different problem areas |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 36 | Multivariate Technique For Data Analysis Lab | DSCSEP04 | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |
| 37 | Data & Information Security Through Python | DSCSET05 | B.Sc(M.S.Ds) | **2020-23** | This course enables the students to develop own employabality by research in different problem areas |
| 38 | Data &Information Security Through Python Lab | DSCSEP05 | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |
| 39 | Spark Programming | DSCSET06 | B.Sc(M.S.Ds) | **2020-23** | This course enables the students to develop own employabality by research in different problem areas |
| 40 | Spark Programming Lab | DSCSEP06 | B.Sc(M.S.Ds) | **2020-23** | Lab course enables students for skill development |
| 41 | Problem Solving Using Structured Programming | AIMLT11 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop skill and logic for employabality in different problem areas |
| 42 | Problem Solving Techniques | AIMLT12 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop skill and logic for employabality in different problem areas |
| 43 | Problem Solving Using Structured Programming Lab | AIMLP11 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 44 | Data Structures | AIMLT21 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop skill and logic for employabality in different problem areas |
| 45 | Python For Data Analysis | AIMLT22 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop skill and logic for employabality in different problem areas |
| 46 | Data Structures Lab | AIMLP21 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 47 | Python For Data Analysis Lab | AIMLP22 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 48 | Introduction To Artificial Intelligence | AIMLT31 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 49 | Document Oriented Databases | AIMLT32 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 50 | Introduction To Artificial Intelligence Lab | AIMLP31 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 51 | Documented Oriented Database Lab | AIMLP32 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|---------------------------------------------------------------------------------------------|
| 52 | Introduction To Machine Learning | AIMLT41 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 53 | Data Mining | AIMLT42 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 54 | Operating Systems | AIMLT43 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 55 | Machine Learning Lab | AIMLP41 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 56 | Data Mining Lab | AIMLP42 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 57 | Operating Systems Lab | AIMLP43 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 58 | INTRODUCTION TO PREDICTIVE ANALYTICS USING PYTHON | AIMLSET01 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 59 | INTRODUCTION TO PREDICTIVE ANALYTICS USING PYTHON LAB | AIMLSEP01 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 60 | COMPUTER NETWORKS | AIMLSET02 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 61 | COMPUTER NETWORKS LAB | AIMLSEP02 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 62 | E-COMMERCE | AIMLSET03 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 63 | E-COMMERCE LAB | AIMLSEP03 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 64 | SOFTWARE TESTING METHODOLOGIES | AIMLSET04 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 65 | SOFTWARE TESTING METHODOLOGIES LAB | AIMLSEP04 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 66 | SOFTWARE PROJECT MANAGEMENT | AIMLSET05 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 67 | SOFTWARE PROJECT MANAGEMENT LAB | AIMLSEP05 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 68 | MULTIMEDIA TOOLS AND APPLICATIONS | AIMLSET06 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 69 | MULTIMEDIA TOOLS AND APPLICATIONS LAB | AIMLSEP06 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 70 | SECURITY ANALYSIS | AIMLSET07 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 71 | SECURITY ANALYSIS LAB | AIMLSEP07 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 72 | INTERNET OF THINGS | AIMLSET08 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 73 | INTERNET OF THINGS LAB | AIMLSEP08 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 74 | CYBER SECURITY ESSENTIALS | AIMLSET09 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 75 | CYBER SECURITY ESSENTIALS LAB | AIMLSEP09 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|---------------------|---------------------|---------------------------------------------------------------------------------------------|
| 76 | WEB APPLICATIONS DEVELOPMENT USING PHP& MYSQL | AIMLSET10 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 77 | WEB APPLICATIONS DEVELOPMENT USING PHP& MYSQL LAB | AIMLSEP10 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 78 | DESIGN THINKING | AIMLSET11 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 79 | DESIGN THINKING LAB | AIMLSEP11 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 80 | DIGITAL IMAGING | AIMLSET12 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 81 | DIGITAL IMAGING LAB | AIMLSEP12 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 82 | DEEP LEARNING | AIMLSET13 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |

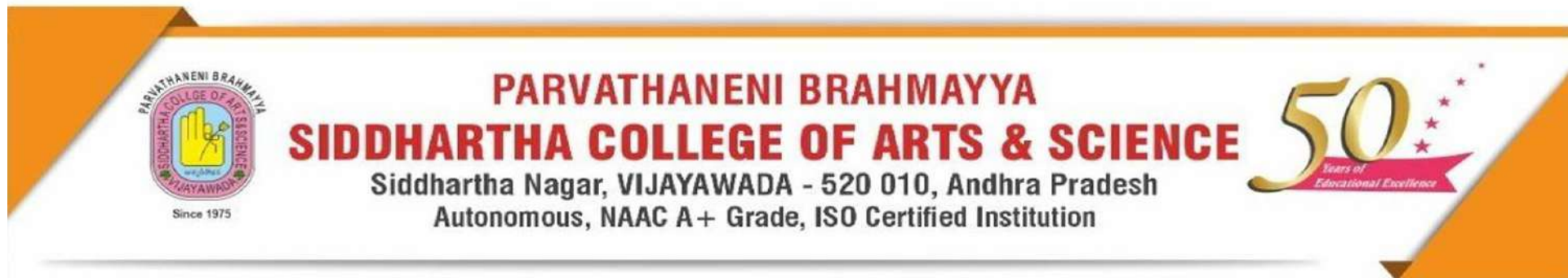| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 83 | DEEP LEARNING LAB | AIMLSEP13 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 84 | REINFORCEMENT LEARNING | AIMLSET14 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 85 | REINFORCEMENT LEARNING LAB | AIMLSEP14 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 86 | NATURAL LANGUAGE PROCESSING | AIMLSET15 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 87 | NATURAL LANGUAGE PROCESSING LAB | AIMLSEP15 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 88 | NEURAL NETWORKS | AIMLSET16 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 89 | NEURAL NETWORKS LAB | AIMLSEP16 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 90 | COMPUTER VISION | AIMLSET17 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 91 | COMPUTER VISION LAB | AIMLSEP17 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 92 | BIG DATA ANALYTICS | AIMLSET18 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 93 | BIG DATA ANALYTICS LAB | AIMLSEP18 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 94 | Problem Solving Using Structured Programming | 22AIMLT11 | B.Sc.(AIML) | **2022-25** | This course enables the students to develop skill and logic for employabality in different problem areas |
| 95 | Problem Solving Techniques | 22AIMLT12 | B.Sc.(AIML) | **2022-25** | This course enables the students to develop skill and logic for employabality in different problem areas |
| 96 | Problem Solving Using Structured Programming Lab | 22AIMLP11 | B.Sc.(AIML) | **2022-25** | Lab course enables students for skill development |
| 97 | Data Structures | 22AIMLT21 | B.Sc.(AIML) | **2022-25** | This course enables the students to develop skill and logic for employabality in different problem areas |
| 98 | Python For Data Analysis | 22AIMLT22 | B.Sc.(AIML) | **2022-25** | This course enables the students to develop skill and logic for employabality in different problem areas |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 99 | Data Structures Lab | 22AIMLP21 | B.Sc.(AIML) | **2022-25** | Lab course enables students for skill development |
| 100 | Python For Data Analysis Lab | 22AIMLP22 | B.Sc.(AIML) | **2022-25** | Lab course enables students for skill development |
| 101 | Introduction to Data Science with R | 22DSCT11 | B.Sc.(AIML) | **2022-25** | This course enables students to impart skill and encourage them to develop employability |
| 102 | Introduction to Data Science with R Lab | 22DSCP11 | B.Sc.(AIML) | **2022-25** | Lab course enables students for skill development |
| 103 | Functional Programming using Python | 22DSCT21 | B.Sc.(AIML) | **2022-25** | This course enables students to impart skill and encourage them to develop employability |
| 104 | Functional Programming using Python: Lab | 22DSCP21 | B.Sc.(AIML) | **2022-25** | Lab course enables students for skill development |
| 105 | Introduction to Data Science with R | 22DSCT11 | B.Sc.(AIML) | **2022-25** | This course enables students to impart skill and encourage them to develop employability |
| 106 | Introduction to Data Science with R Lab | 22DSCP11 | B.Sc.(AIML) | **2022-25** | Lab course enables students for skill development |
| 107 | Functional Programming using Python | 22DSCT21 | B.Sc.(AIML) | **2022-25** | This course enables students to impart skill and encourage them to develop employability |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|----------------------|-----------------------|----------------------------------------------------------------------------------------------|
| 108 | Functional Programming using Python: Lab | 22DSCP21 | B.Sc.(AIML) | **2022-25** | Lab course enables students for skill development |
| 109 | Elements Of R-Programming | 22DSCT31A | B.Sc.(AIML) | **2023-25** | This course enables students to impart skill and encourage them to develop employability |
| 110 | Elements Of R-Programming Lab | 22DSCP31A | B.Sc.(AIML) | **2023-25** | Lab course enables students for skill development |
| 111 | Database Management Systems | 22DSCT41 | B.Sc.(AIML) | **2023-25** | This course enables students to impart managing the database and encourage them to develop employability |
| 112 | Introduction To Java Programming | 22DSCT01 | B.Sc.(AIML) | **2023-25** | This course enables students to impart skill development and encourage them to develop employability |
| 113 | Database Management Systems Lab | 22DSCP41 | B.Sc.(AIML) | **2023-25** | Lab course enables students for skill development |
| 114 | Introduction To Java Programming Lab | 22DSCP01 | B.Sc.(AIML) | **2023-25** | Lab course enables students for skill development |
| 115 | Introduction To Artificial Intelligence | 22AIMLT31 | B.Sc.(AIML) | **2023-25** | This course enables the students to develop own employabality by research in different problem areas |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 116 | Document Oriented Databases | 22AIMLT32 | B.Sc.(AIML) | **2023-25** | This course enables the students to develop own employabality by research in different problem areas |
| 117 | Introduction To Artificial Intelligence Lab | 22AIMLP31 | B.Sc.(AIML) | **2023-25** | Lab course enables students for skill development |
| 118 | Documented Oriented Database Lab | 22AIMLP32 | B.Sc.(AIML) | **2023-25** | Lab course enables students for skill development |
| 119 | Introduction To Machine Learning | 22AIMLT41 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 120 | Data Mining | 22AIMLT42 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 121 | Operating Systems | 22AIMLT43 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 122 | Machine Learning Lab | 22AIMLP41 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |
| 123 | Data Mining Lab | 22AIMLP42 | B.Sc.(AIML) | **2021-24** | This course enables the students to develop own employabality by research in different problem areas |
| 124 | Operating Systems Lab | 22AIMLP43 | B.Sc.(AIML) | **2021-24** | Lab course enables students for skill development |

**Criterion I - Curricular Aspects**        **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM:** Bachelor of Business Administration (BBA) - General

**REGULATION -20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|---------------------|---------------------|---------------------------------------------------------------------------------------------|
| 1 | Management Process | MGTT15 | BBA GENERAL | 2020-21 | **Skill development** : This course builds theoretical base required for understanding the Principles and Practices of Management function. |
| 2 | Accounting for Managers | MGTT22A | BBA GENERAL | 2020-21 | **Skill Development & Employability:**This course instills skill and domain knowledge necessary for preparing final accounts of a business concern, thus contributes to better employability. |
| 3 | Business Environment | MGTT25 | BBA GENERAL | 2020-21 | **Skill Development :**This course builds theoretical base required for understanding the dynamics of Business Environment. |
| 4 | ENTERPRENEURSHIP DEVELOPMENT | LSCT04 | BBA GENERAL | 2020-21 | This course enhances the basic understanding and learning of Interpersonal skills,Organizational behaviour,Emotional intelligence and aspects of good Conflict management and occupational strategies etc., |
| 5 | PERSONALITY ENHANCEMENT AND LEADERSHIP | LSCT11 | BBA GENERAL | 2020-21 | Assignments, Group discussions, Quiz etc 2. Invited Lecture by a local expert 3. Case Studies (ex., on students behavior, local leaders etc.) |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 6 | NATIONAL CADET CROPS-I | LSCT09 | BBA GENERAL | 2020-21 | NCC Cadets holding 'C' cert and taken part in Republic Day Parade New Delhi will now be exempted from CEE for Rect into Sol Clk/Skt/Sol Tech and Sol NA and will be awarded 100% marks in lieu of CEE. Such candidates have to pass PFT, PMT and undergo med exam to get enrolled. Names of NCC cadets attending RD parade will be fwd to Rtg Dte by this HQ. |
| 7 | DISASTER MANAGEMENT | SDCGT01 | BBA GENERAL | 2021-22 | 1. Invite lectures by local experts 2. Training on preparedness, post disaster services 3. Analysis of Case studies  4. Visit to a disaster management office and facility 5. Assignments, Group discussion, quiz etc. |
| 8 | ONLINE BUSINESS | SDCMGTT01 | BBA GENERAL | 2021-22 | **Skill Development  and Employability:**1.Assignments, Group discussion, Quiz etc. 2. Short practical training in computer lab 3. Identifying online business firms through internet 4. Invited Lectures by e-commerce operators 5. Working with Google and HTML advertisements. 6. Visit to a local online business firm. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 9 | SURVEY AND REPORTING | SDCMGTT03 | BBA GENERAL | 2021-22 | **Skill Development :**1.Invited Lecture/Training by a Local Expert 2. Collection and study of questionnaires 3. Preparation of sample questionnaire and conduct a live sample survey 4. Preparation of a sample Report 5. Assisting a real time field survey and report writing 6. Assignments, Group discussion, Quiz etc. |
| 10 | TALLY | SDCMGTP05 | BBA GENERAL | 2021-22 | **Skill Development & Employability:**Tally is the integral part of any organisation to manage accounting details. This easy computerized accounting course covers various aspects of accounting like taxation, inventory and pay roll etc. |
| 11 | FINANCIAL ANALYTICS LAB | SDCMGTP07 | BBA GENERAL | 2021-22 | **Skill Development & Employability:**Analyse the company data with Company's Financial Data |
| 12 | Management Process | MGTT15 | BBA GENERAL | 2020-21 | **Skill Development :**This course builds theoretical base required for understanding the Principles and Practices of Management function. |
| 13 | Accounting for Managers | MGTT22A | BBA GENERAL | 2020-21 | **Skill Development &Employability :**This course instills skill and domain knowledge necessary for preparing final accounts of a business concern, thus contributes to better employability. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|---------------------------------------------------------------------------------------------|
| 14 | Business Environment | MGTT25 | BBA GENERAL | 2020-21 | **Skill Development :**This course builds theoretical base required for understanding the dynamics of Business Environment. |
| 15 | HUMAN RESOURCE MANAGEMENT | MGTT32 | BBA GENERAL | 2021-22 | **Skill Development :**This course builds fundamental base required for understanding the managerial and operative functions of Human Resource Management. |
| 16 | ORGANIZATIONAL BEHAVIOUR | MGTT33 | BBA GENERAL | 2021-22 | **Skill Development :**This course develops essential knowledge pertaining to individual, group and company level dimensions of organizational behaviour and its bearing on employees' productivity. |
| 17 | MARKETING MANAGEMENT | MGTT34 | BBA GENERAL | 2021-22 | **Skill Development :**This course instills domain knowledge required for understanding the major functions that constitute Marketing Management. |
| 18 | BUSINESS LAWS | MGTT37 | BBA GENERAL | 2021-22 | **Skill Development :**This course provides basic insight into various tools and techniques fundamentally used for Business Analytics purpose. |
| 19 | PROJECT EVALUATION AND MANAGEMENT | MGTT41B | BBA GENERAL | 2021-22 | **Skill Development :**This course builds the functional base required for executing Capital Budgeting and other basic functions that constitute Finance function, thus increases the rate of employability. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 20 | BUSINESS STRATEGY | MGTT43A | BBA GENERAL | 2021-22 | **Skill Development :**This course imparts conceptual understanding on the composition of as well as enforcement of Corporate Governance framework in India. |
| 21 | OPERATIONS MANAGEMENT | MGTT44 | BBA GENERAL | 2021-22 | **Skill Development :**This course develops essential knowledge pertaining to various production systems, plant layouts and major functions that constitute the Operations Management and Control Systems. |
| 22 | BUSINESS RESEARCH METHODS | MGTT45 | BBA GENERAL | 2021-22 | Companies that understand precisely what their customers need do an excellent job of fostering customer satisfaction and retention. The value of retention is unmatched, considering boosting customer retention rates by just 5% increases profits anywhere from 25% to 95%, according to Bain & Company. |
| 23 | Marketing Management | MGTT17 | BBA GENERAL | 2021-22 | **Skill Development :**This course instills domain knowledge required for understanding the major functions that constitute Marketing Management. |
| 24 | BUSINESS RESEARCH METHODS | MGTT311 | BBA GENERAL | 2021-22 | Programming Laguage , helps in determinin and data analysis |
| 25 | BUSINESS RESEARCH METHODS | MGTT311A | BBA GENERAL | 2021-22 | Lab Experiments using python and data |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 26 | Tally | SDCMGTP05 | BBA GENERAL | 2021-22 | **Skill Development & Employability :**Tally is the integral part of any organisation to manage accounting details. This easy computerized accounting course covers various aspects of accounting like taxation, inventory and pay roll etc. |
| 27 | Internship in Management | MGTIAP6 | BBA GENERAL | 2022-23 | **Skill Development :**This course provides basic understanding of research methodologies and enables doing quality research in future. |
| 28 | Human Resource Management | MGTT32 | BBA GENERAL | 2022-23 | **Skill Development :**This course builds fundamental base required for understanding the managerial and operative functions of Human Resource Management. |
| 29 | Organizational Behaviour | MGTT33 | BBA GENERAL | 2022-23 | **Skill Development :**This course develops essential knowledge pertaining to individual, group and company level dimensions of organizational behaviour and its bearing on employees' productivity. |
| 30 | Marketing Management | MGTT34 | BBA GENERAL | 2022-23 | **Skill Development :**This course instills domain knowledge required for understanding the major functions that constitute Marketing Management. |
| 31 | Business Laws | MGTT37 | BBA GENERAL | 2022-23 | **Skill Development :**This course lays theoretical base required for understanding various laws that govern Business activities in India. |

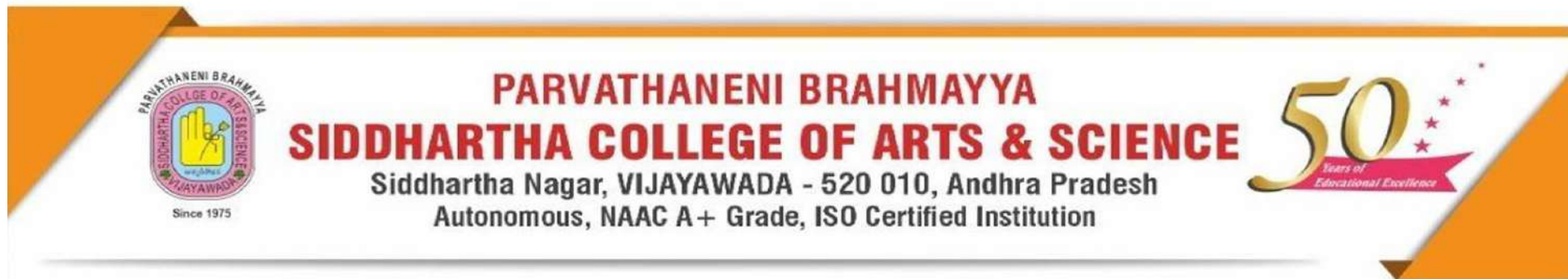| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 32 | Project Evaluation And Management | MGTT41B | BBA GENERAL | 2022-23 | **Skill Development :**This course provides fundamental idea on life cycle of a Project and the intricacies involved in Project evaluation and Management |
| 33 | Business Strategy | MGTT43A | BBA GENERAL | 2022-23 | **Skill Development :**This course imparts exposure to the related issues and challenges to be dealt with pertinent to Business analysis, Strategy formulation, implementation and Management. |
| 34 | Operations Management | MGTT44 | BBA GENERAL | 2022-23 | **Skill Development :**This course develops essential knowledge pertaining to various production systems, plant layouts and major functions that constitute the Operations Management and Control Systems. |
| 35 | Business Research Methods | MGTT45 | BBA GENERAL | 2022-23 | **Skill Development :**This course builds basic skill required for conducting basic research investigation and generate a Research Report. |
| 36 | Stores Management | MGTSET01 | BBA GENERAL | 2022-23 | **Skill Development :**This Elective course provides background understanding on how to manage a Retail Stores as well as major responsibilities and operations of Stores Management. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 37 | Warehouse Management | MGTSET02 | BBA GENERAL | 2022-23 | **Skill Development :**This Elective course provides basic knowledge on how to set up a Warehouse Management System, major warehousing operations and contemporary practices for effective management of the same. |
| 38 | Purchase Management | MGTSET03 | BBA GENERAL | 2022-23 | **Skill Development :**This Elective course builds the theoretical base required for appreciating the major functions that constitute Purchase Management and how to build long lasting Buyer-Supplier relationships. |
| 39 | Logistics & Supply Chain Management | MGTSET04 | BBA GENERAL | 2022-23 | **Skill Development :**This Elective course provides background understanding on how to manage a Retail Stores logistics and supply chain to avoid stock out situation. |
| 40 | Brand Management | MGTSET05 | BBA GENERAL | 2022-23 | **Skill Development :**This Elective course imparts essential understanding on various aspects of brand management and the intricacies involved in effective brand management |
| 41 | Customer Relationship Management | MGTSET06 | BBA GENERAL | 2022-23 | **Skill Development :**This Elective course imparts knowledge on various basic concepts of Customer Relationship Management and various challenging issues to be dealt with by a Customer Relationship Manager. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 42 | Strategic HRM | MGTSET07 | BBA GENERAL | 2022-23 | **Skill Development :**This course imparts exposure to the related issues and challenges to be dealt with pertinent to Strategy formulation, implementation and Management of Human Resources. |
| 43 | Compensation Management | MGTSET08 | BBA GENERAL | 2022-23 | **Skill Development :**This Elective course imparts essential understanding on various aspects of Compensation management and the intricacies involved in effective Compensation management |
| 44 | Industrial Relations | MGTSET09 | BBA GENERAL | 2022-23 | **Skill Development :**This Elective course gives basic understanding on the factors that promote cardial Industrial Relations and constructive means of dealing with Industrial Disputes. |
| 45 | Global HRM | MGTSET10 | BBA GENERAL | 2022-23 | **Skill Development :**This Elective course imparts knowledge on various basic concepts of Global Human Resource Management and various challenging issues to be dealt with by a Global HR Manager. |
| 46 | Talent Management | MGTSET11 | BBA GENERAL | 2022-23 | **Skill Development :**This Elective course enables the learner realize the significance of Talent Management in enhancing the effectiveenesss of Organizations. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 47 | Training & Development | MGTSET12 | BBA GENERAL | 2022-23 | **Skill Development :**This Elective course builds fundamental base required for understanding various aspects pertaining to planning and effective execution of different Training & Development Programmes in Business Organizations. |
| 48 | Cost Accounting | MGTSET13 | BBA GENERAL | 2022-23 | **Skill Development :**Familiarize the students with cost concepts and enable them handle Cost Accounting problems |
| 49 | Taxation | MGTSET14 | BBA GENERAL | 2022-23 | **Skill Development :**This course builds the functional base required for computation of Income tax liability on an individual and a firm, thus increases the rate of employability. |
| 50 | Management Accounting | MGTSET15 | BBA GENERAL | 2022-23 | **Skill Development :**Enable students to have thorough knowledge on the management accounting techniques in business decision making |
| 51 | Investment Management | MGTSET16 | BBA GENERAL | 2022-23 | **Skill Development :**This Elective course builds the functional base required for computation of risk and return pertaining to Securities Market, Valuation of Securities and Fundamental analysis of economy and industries. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 52 | Financial Management | MGTSET17 | BBA GENERAL | 2022-23 | **Skill Development :**This course builds the functional base required for executing Capital Budgeting and other basic functions that constitute Finance function, thus increases the rate of employability. |
| 53 | Financial Services | MGTSET18 | BBA GENERAL | 2022-23 | **Skill Development :**This Elective course imparts essential knowledge on the range of Financial services, functioning of Credit Rating Agencies and the SEBI guidelines pertaining to  regulation of Financial Services in India. |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM:** Bachelor of Business Administration (BBA) - General

**REGULATION -15**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Entrpreneurship | AEC 008 | BBA General | 2016-17 | **Employability,Entrepreneurship & Skill development :**This course builds the basic understanding on out set of a business enterprise and the intricies of running an enterprise successfully |
| 2 | Leadership Education | AEC 011 | BBA General | 2016-17 | **Employability & Skill development :**This course imparts exposure to the related issues and changes to be dealt with to become an effective leader |
| 3 | Accounting for Managers | MGTT22A | BBA General | 2016-17 | **Employability & Skill development :**This course instills skill and domain knowledge necessary for preparing final accounts of a business concern, thus contributes to better employability. |
| 4 | Human Resource Management | MGTT32 | BBA General | 2017-18 | **Skill development :**This course builds fundamental base required for understanding the managerial and operative functions of Human Resource Management. |
| 5 | Organizational Behaviour | MGTT33 | BBA General | 2017-18 | **Skill development :**This course develops essential knowledge pertaining to individual, group and company level dimensions of organizational behaviour and its bearing on employees' productivity. |
| 6 | Marketing Management | MGTT34 | BBA General | 2017-18 | **Skill development :**This course instills domain knowledge required for understanding the major functions that constitute Marketing Management. |
| 7 | Financial Management | MGTT41A | BBA General | 2017-18 | **Employability & Skill development :**This course builds the functional base required for executing Capital Budgeting and other basic functions that constitute Finance function, thus increases the rate of employability. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 8 | Business Ethics and Corporate Governance | MGTT43 | BBA General | 2017-18 | **Skill development :**This course imparts conceptual understanding on the composition of as well as enforcement of Corporate Governance framework in India. |
| 9 | Operations Management | MGTT44 | BBA General | 2017-18 | **Skill development :**This course develops essential knowledge pertaining to various production systems, plant layouts and major functions that constitute the Operations Management and Control Systems. |
| 10 | Business Research Methods | MGT T45 | BBA General | 2018-19 | **Skill development :**This course builds basic skill required for conducting basic research investigation and generate a Research Report. |
| 11 | Taxation | MGTT52 | BBA General | 2018-19 | **Employability & Skill development :**This course builds the functional base required for computation of Income tax liability on an individual and a firm, thus increases the rate of employability. |
| 12 | E-Commerce | MGTT53 | BBA General | 2018-19 | **Skill development :**This course provides basic knowledge on how to configure different Business models and Fulfillment models that constitute the framework required for administration of an E-Commerce. |
| 13 | Talent Management | MGTTEL51 | BBA General | 2018-19 | **Skill development :**This Elective course enables the learner realize the significance of Talent Management in enhancing the effectiveenesss of Organizations. |
| 14 | Industrial Relations | MGTTEL52A | BBA General | 2018-19 | **Skill development :**This Elective course gives basic understanding on the factors that promote cardial Industrial Relations and constructive means of dealing with Industrial Disputes. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 15 | Purchase Management | MGTTEL53 | BBA General | 2018-19 | **Skill development :**This Elective course builds the theoretical base required for appreciating the major functions that constitute Purchase Management and how to build long lasting Buyer-Supplier relationships. |
| 16 | Stores Management | MGTTEL54 | BBA General | 2018-19 | **Skill development :**This Elective course provides background understanding on how to manage a Retail Stores as well as major responsibilities and operations of Stores Management. |
| 17 | e-Commerce Applications | MGTTEL56 | BBA General | 2018-19 | **Skill development :**This Elective course imparts knowledge on various E-Business models and E-Governance models that are in vogue in India. |
| 18 | Business Networks | MGTTEL57 | BBA General | 2018-19 | **Skill development :**This Elective course provides basic knowledge on how to configure different models of Business Networking through ICT for effective functioning of Business Enterprise. |
| 19 | Financial Markets | MGTTEL58 | BBA General | 2018-19 | **Skill development :**This Elective course imparts essential understanding on functions of Primary and Secondary Financial Markets, functioning of Mutul Funds and the role of RBI, SEBI and IRDA in regulating the Financial Markets. |
| 20 | Foreign Exchange Management | MGTTEL59 | BBA General | 2018-19 | **Skill development :**This Elective course builds the theoretical base required for appreciating the major functions of Foreign Exchange Market, dynamics of Foreign Exchange trading and Risk Management techniques. |
| 21 | Global Marketing | MGTTEL510 | BBA General | 2018-19 | **Skill development :**This Elective course enables the learner build understanding on the dynamics of Global Marketing and the strategies appropriate for Global Marketing. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 22 | Advertising & Media Management | MGTTEL511 | BBA General | 2018-19 | **Skill development :**This Elective course imparts understanding on Advertising campaign planning, execution and Media Management by a Business organization. |
| 23 | Management-Project Work | MGTPWEL55 | BBA General | 2018-19 | **Skill development :**This course provides basic understanding of research methodologies and enables doing quality research in future. |
| 24 | Project Evaluation and Management | MGTT61 | BBA General | 2018-19 | **Skill development :**This course provides fundamental idea on life cycle of a Project and the intricacies involved in Project evaluation and Management |
| 25 | Micro, Small and Medium Enterprises Management | MGTT62 | BBA General | 2018-19 | **Skill development & Entrepreneurship:**This course builds the basic understanding on how to set up a business enterprise and the related dynamics. |
| 26 | Business Strategy | MGTT63 | BBA General | 2018-19 | **Skill development :**This course imparts exposure to the related issues and challenges to be dealt with pertinent to Business analysis, Strategy formulation, implementation and Management. |
| 27 | Global HumanResource Management | MGTTEL61 | BBA General | 2018-19 | **Skill development :**This Elective course imparts knowledge on various basic concepts of Global Human Resource Management and various challenging issues to be dealt with by a Global HR Manager. |
| 28 | Training and Development | MGTTEL62 | BBA General | 2018-19 | **Skill development :**This Elective course builds fundamental base required for understanding various aspects pertaining to planning and effective execution of different Training & Development Programmes in Business Organizations. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 29 | Agricultural and Rural Marketing | MGTTEL63 | BBA General | 2018-19 | **Skill development :**This Elective course enables the learner develop essential understanding on the institutional Support for Rural & Agricultural Marketing in India along with the major marketing operations and challenging issues pertaining to the same in Indian context. |
| 30 | Warehouse Management | MGTTEL64 | BBA General | 2018-19 | **Skill development :**This Elective course provides basic knowledge on how to set up a Warehouse Management System, major warehousing operations and contemporary practices for effective management of the same. |
| 31 | e-Payments System | MGTTEL66 | BBA General | 2018-19 | **Skill development :**This Elective course imparts exposure to the prevailing E-Payment system in India and the related issues and challenges to be dealt with. |
| 32 | Social Media and e-Marketing | MGTTEL67 | BBA General | 2018-19 | **Skill development :**This Elective course provides background understanding on how to use Social Media sites for effective administration of E-Marketing functions. |
| 33 | Financial Services | MGTTEL68 | BBA General | 2018-19 | **Skill development :**This Elective course imparts essential knowledge on the range of Financial services, functioning of Credit Rating Agencies and the SEBI guidelines pertaining to  regulation of Financial Services in India. |
| 34 | Investment Management | MGTTEL69 | BBA General | 2018-19 | **Skill development :**This Elective course builds the functional base required for computation of risk and return pertaining to Securities Market, Valuation of Securities and Fundamental analysis of economy and industries. |
| 35 | Marketing of Services | MGT TEL610 | BBA General | 2018-19 | **Skill development :**This elective course aims at developing understanding on the intricacies involved in a Service design as well as development of appropriate Service Marketing Mix. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 36 | Retail Management | MGT TEL611 | BBA General | 2018-19 | **Skill development :**This Elective course imparts essential knowledge on the elements considered while setting up a Retail organization and strategic Management of the same. |
| 37 | IT for Managers | MITT11 | BBA General | 2016-17 | **Skill development :**Develops skills in students by educating them in basic IT components and implementing them in Information Systems of an organization along with making students familiar with new IT technologies |
| 38 | Tally (Accounting Software) | SEC001 | BBA General | 2018-19 | **Skill development & Employability:**This Skill Enhancement Course imparts the learner a practical skill in computerized recording of financial transactions, preparation of annual accounts and reports using Tally Accounting Software, thus increases the employability of the learner positively. |
| 39 | Statistical Computing using SPSS Software | SEC002 | BBA General | 2017-18 | **Skill development & Employability:**hands on training with live data/mini project |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : BBA BUSINESS ANALYTICS**

**REGULATION -20**

| S.NO | NAME OF THE COURSE | Course Code | NAME OF THE PROGRAM | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Fundamentals of Business Analytics | MGT T16 | BBA ANALTICS | 2020-21 | **Entrepreneurship** : Foundation of Analytics and its applications in Business |
| 2 | Marketing Management | MGTT28 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** Market repot Observations |
| 3 | Fundamentals of Accounting | MGTT29 | BBA ANALTICS | 2020-21 | **Employability:** Lab Experiments using excel and data comparison |
| 4 | Business Analytics with Ms Excel | LSCP08 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** Develops skills in assessing and auditing information security risks and vulnerabilities |
| 5 | Statistical Data Analysis using R-Programming Lab | SDC MGTP02 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** Data analysis programming |
| 6 | Business Analytics using MS Excel Lab | CSC P26 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** Implementing various excel functions for business analytics |
| 7 | Data Management with SQL Programming Lab | CSC P27 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** Database creation & working |
| 8 | Statistical Data Analysis using R-Programming Lab | SDCMGTP02 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** Constructing the tables and graphs for data and analyze the data using different R coding . |
| 9 | Statistical Data Analytics using JASP | SDCMGTP04 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** Constructing the tables and graphs for data and analyze the data using different JASP syntax. |
| 10 | Power BI | SDCMGTP06 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** Big data can be visuvalisized and decision can be taken on the short span of time. |

| S.NO | NAME OF THE COURSE | Course Code | NAME OF THE PROGRAM | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 11 | Human Resource Management | MGTT38 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** It helps in understanding and prepareation of accounts, gives complete information of compaies financial status |
| 12 | Operations Management | MGTT39 | BBA ANALTICS | 2020-21 | **Skill development:** Programming Laguage , helps in determinin and data analysis |
| 13 | Security Analysis | MGTT39A | BBA ANALTICS | 2020-21 | **Employability, Enterpreneurship and Skill development:** Lab Experiments using python and data |
| 14 | Financial Management | MGTT310 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** It helps in understanding and prepareation of accounts, gives complete information of compaies financial status |
| 15 | Python for Data Science | MGTT46A | BBA ANALTICS | 2020-21 | **Employability and Skill development:** It helps in understanding and prepareation of accounts, gives complete information of compaies financial status |
| 16 | Python for Data Science Lab | MGTP47A | BBA ANALTICS | 2020-21 | **Employability, Enterpreneurship and Skill development:** It helps in understanding and prepareation of accounts, gives complete information of compaies financial status |
| 17 | E –COMMERCE | MGTT48 | BBA ANALTICS | 2020-21 | **Employability, Enterpreneurship and Skill development:** This course provides basic knowledge on how to configure different Business models and Fulfillment models that constitute the framework required for administration of an E-Commerce. |
| 18 | HR Analytics | MGTT49 | BBA ANALTICS | 2020-21 | **Skill development**: Programming Laguage , helps in determinin and data analysis |
| 19 | Machine Learning with R | MGTT410 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** Lab Experiments using python and data |
| 20 | Machine Learning LAB | MGTP411 | BBA ANALTICS | 2020-21 | **Skill development:** Programming Laguage , helps in determinin and data analysis |

| S.NO | NAME OF THE COURSE | Course Code | NAME OF THE PROGRAM | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 21 | INTERNSHIP IN BUSINESS ANALYTICS | ANAIAP5 | BBA ANALTICS | 2020-21 | **Employability and Enterpreneurship:** Students are exposed to pratical knowledge in Analytics tools develop their project development skills and helped them in enhancing their skills as well as improving employability oppirtunities. |
| 22 | Machine Learning & Deep Learning using Scikit Le | ANASET01 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** Students are able to understand the paaterns and in data in deepr context and helps i taking better deccission making |
| 23 | Machine Learning & Deep Learning using Scikit Le | ANASEP01 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** Students are able to understand the paaterns and in data in deepr context and helps i taking better deccission making , thiis lab enable to data processiing in a realtime |
| 24 | Big Data Analytics | ANASET02 | BBA ANALTICS | 2020-21 | **Skill development:** Complete knowledge on , bigdata technologies which are exist in business world |
| 25 | Mongo DB Lab | ANASEP02 | BBA ANALTICS | 2020-21 | **Skill development:** This is usefull in praretion of unstructured data ,application and prepartaion of database, |
| 26 | E Business | ANASET03 | BBA ANALTICS | 2020-21 | **Employability and Enterpreneurship:** Student will come to know the broader concept than e-commerce, which specifically refers to transactions of goods and services online |
| 27 | Econometrics | ANASET04 | BBA ANALTICS | 2020-21 | **Skill development:** This will help the student to know about the application of statistical and mathematical models to economic data, plays a significant role in skill development by providing analytical tools to understand and predict economic behaviors and outcomes |
| 28 | Real Time Governance System | ANASET05 | BBA ANALTICS | 2020-21 | **Employability and Enterprenurship:** RTGS enables the student to come across Efficient Payment Systems: RTGS enables instant and secure transfer of funds, Increased Business Efficiency:Encourages Remote Work: |
| 29 | Operating System | ANASET06 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** Use of systems in real world and its functiionalities |
| 30 | Advance HR Analytics | ANASET07 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** application of analytics and use of statistics to make better HR Decissions |

| S.NO | NAME OF THE COURSE | Course Code | NAME OF THE PROGRAM | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|---------------------|---------------------------------------------------------------------------|
| 31 | Business Use Cases | ANASET08 | BBA ANALTICS | 2020-21 | **Enterpreneurship and Skill development**: Real time case that helps taking an effective decisssion making |
| 32 | Portfolio Management (Financie) | ANASET09 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** helps student to come across fiananicial investemets |
| 33 | Security Analysis and Portfolio Management Lab | ANASEP09 | BBA ANALTICS | 2020-21 | **Employability, Enterprenurship and Skill development**: applicaton of finanacial pricnciples in a real time manner |
| 34 | Business Analytics and Text Mining Modelling usin | ANASET10 | BBA ANALTICS | 2020-21 | **Skill development:** Students will develop the procee of understanging semistructue data handling and finding business decissions using TEXT based information |
| 35 | Business Analytics and Text Mining Modelling usin | ANASEP10 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** students will develop the procee of understanging semistructue data handling and finding business decissions using TEXT based information |
| 36 | Software Testing | ANASET11 | BBA ANALTICS | 2020-21 | **Skill development:** helps student to identify SDLC process and execiting pattern |
| 37 | E Commerce Application Development | ANASET12 | BBA ANALTICS | 2020-21 | **Enterpreurship and Skill development**:studnet will identify the process developing a customized buisiness application |
| 38 | Cyber Laws | ANASET13 | BBA ANALTICS | 2020-21 | **Skill development:** students are imposed to learn the ethical behaviours in cyber security |
| 39 | Client Relationship Management | ANASET14 | BBA ANALTICS | 2020-21 | **Employability, Enterprenurship and Skill development:** knowing how to deal withe the client at all the levels of infrmation sharing , report building etc |
| 40 | Marketing Analytics Using Excel and R | ANASET15 | BBA ANALTICS | 2020-21 | **Employability, Enterprenurship and Skill development**: application of marketing functionalities and varibles and use of Excel and R pprogramming to derive the new information |
| 41 | Internet of Things | ANASET16 | BBA ANALTICS | 2020-21 | **Employability and Skill development:** Students will learn the cooncepts of internet and usge of them in various areas |
| 42 | Supply Chain Analytics | ANASET17 | BBA ANALTICS | 2020-21 | **Enterprenurship and Skill development:** Tracking of movement of products and services |
| 43 | Project Management Analytics | ANASET18 | BBA ANALTICS | 2020-21 | **Employability and Skill development**:Student will get to know the process of Projects and all priocedures till closure of projects |

**196**

**Criterion I - Curricular Aspects**          **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM : BBA BUSINESS ANALYTICS**

**REGULATION -15**

| S.NO | NAME OF THE COURSE | COURSE CODE | NAME OF THE PROGRAM | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Basics of Business Analytics | MGTT36 | BBA ANALTICS | 2019-20 | **Skill development:** This course provides basic insight into various tools and techniques fundamentally used for Business Analytics purpose. |
| 2 | Fundamentals of Business Analytics | MGT T16 | BBA ANALTICS | 2019-20 | **Skill development:** Foundation of Analytics and its applications in Business |
| 3 | Organization Behavior | MGT T27 | BBA ANALTICS | 2018-19 | **Skill development:** This helps in observations of Organinzation |
| 4 | Fundamentals of Accounting | MGT T35 | BBA ANALTICS | 2017-18 | **Employability and Skill development:** It helps in understanding and prepareation of accounts, gives complete information of compaies financial status |
| 5 | Python for Data Science | MGT T46 | BBA ANALTICS | 2018-19 | **Employability:** Programming Laguage , helps in determinin and data analysis |
| 6 | Python for Data Science lab | MGT P47 | BBA ANALTICS | 2018-19 | **Employability:** Lab Experiments using python and data |
| 7 | Machine Learning with R (Theory) | MGT T54 | BBA ANALTICS | 2017-18 | **Employability:** Identifying the Problem statement using stastics , mathematical and progaming for optimal solutions |
| 8 | Machine Learning with R (LAB) | MGT P51 | BBA ANALTICS | 2017-18 | **Employability:** Identifying the Problem statement using stastics , mathematical and progaming for optimal solutions |

| S.NO | NAME OF THE COURSE | COURSE CODE | NAME OF THE PROGRAM | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 9 | Fundamentals of Python | MGT T55 | BBA ANALTICS | 2017-18 | **Employability:** Programming Laguage , helps in determinin and data analysis |
| 10 | Fundamentals of python lab | MGT P52 | BBA ANALTICS | 2017-18 | **Employability:** Lab Experiments using python and data |
| 11 | Marketing Analytics | MGT TEL 56 | BBA ANALTICS | 2017-18 | **Employability:** Application of analytical models for solutions in marketing |
| 12 | Big Data Analytics | MGT TEL 57 | BBA ANALTICS | 2017-18 | **Skill development:** It helps in understanding of large data sets and its architecture in contenet management |
| 13 | Project Work | MGT PWEL 58 | BBA ANALTICS | 2017-18 | **Skill development:** Real time exposure for the students in an organinzation |
| 14 | Machine Learning & Deep Learning using Scikit Learn, Keras & Tensorflow | MGT T64 | BBA ANALTICS | 2017-18 | **Employability:** Applcation of Deep learing algorithams , for large quandity of data for better outcome |
| 15 | Machine Learning & Deep Learning using Scikit Learn, Keras & Tensorflow | MGT P66 | BBA ANALTICS | 2017-18 | **Employability:** Applcation of Deep learing algorithams , for large quandity of data for better outcome |
| 16 | Business Analytics and Text Mining Modelling using Python | MGT T65 | BBA ANALTICS | 2017-18 | **Employability**: conductig execrciese on text data using technlogy for better understaning of inputs |

| S.NO | NAME OF THE COURSE | COURSE CODE | NAME OF THE PROGRAM | Year of introduction | Activities/Content with direct bearing on Employability/ Enterpreneurship/ Skill development |
|---|---|---|---|---|---|
| 17 | Business Analytics and Text Mining Modelling using Python | MGT P67 | BBA ANALTICS | 2017-18 | **Employability:** conductig execrciese on text data using technlogy for better understaning of inputs |
| 18 | Business Use Cases & ML Deployment Models | MGTTEL61 | BBA ANALTICS | 2017-18 | **Employability:** Real time Case Studies in Machine learning and Deployment models |
| 19 | Supply Chain Analytics | MGTTEL66 | BBA ANALTICS | 2017-18 | **Employability and Skill developent:** Deep understanding of Logistics in Realtime world scenarios and solutions |
| 20 | Project Management Analytics | MGTTEL67 | BBA ANALTICS | 2017-18 | **Employability, Enterprenurship and Skill development:** Understanding project Complication projects in organinzations generating different solutions |
| 21 | Comprehensive Viva – Voce | MGTCVV68 | BBA ANALTICS | 2017-18 | **Skill development:** Complete over view of Course |
| 22 | Power BI | SEC 007 | BBA ANALTICS | 2017-18 | **Employability, Enterprenurship and Skill development:** It is an Appication for Data Analysis |
| 23 | MONGO DB | SEC008 | BBA ANALTICS | 2017-18 | **Employability, Enterprenurship and Skill development:** It is an Appication for Data Analysis |

**Criterion I - Curricular Aspects**      **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM: B.Sc.(BZC) - BOTANY**

**REGULATION -20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | ENVIRONMENTAL STUDIES | CLSCT01 | B.Sc.(BZC) - Botany | 2020-21 | Skill Development : Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc 2. Visit to a local polluted site-Urban/Rural/Industrial/Agricultural site. 3. Study of common plants, insects, birds and basic principles of identification. 4. Study of simple ecosystems-forest, tank, pond, lake,mangroves etc. 5. Case study of a Forest ecosystem or a pond ecosystem |
| 2 | PLANT NURSERY MANAGEMENT | SDCBOTP01 | B.Sc.(BZC) - Botany | 2021-22 | Skill Development  Assignments/Group discussion/Quiz/Model Exam. 2. Demonstration of nursery bed making. 3. Demonstration ofpreparation of media for nursery. 4. Hands on training on vegetative propagation techniques.   5. Hands on training on sowing methods of seeds and other material. 6. Invited lecture cum demonstration by local expert. 7. Watching videos on routine practices in plant nurseries. 8. Visit to an agriculture/horticulture /forest nursery. 9. Case study on establishment and success of a plant nursery. |
| 3 | Fundamentals of Microbes and Non-vascular Plants | BOTT11A | B.Sc.(BZC) - Botany | 2020-21 | Skill enhancement in the field of micro biology and thallophyte study. |
| 4 | Fundamentals of Microbes and Non-vascular Plants Lab | BOTP11A | B.Sc.(BZC) - Botany | 2020-21 | Skill enhancement in the field of micro biology and thallophyte study. |
| 5 | Basics of Vascular Plants and Phytogeography | BOTT21A | B.Sc.(BZC) - Botany | 2020-21 | Skill enhancement by providing knowledge in identification and study of vascular and non vascular plants. |
| 6 | Basics of Vascular Plants and Phytogeography Lab | BOTP21A | B.Sc.(BZC) - Botany | 2020-21 | Skill enhancement by providing knowledge in identification and study of vascular and non vascular plants. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 7 | ANATOMY, EMBRYOLOGY OF ANGIOSPERMS, PLANT ECOLOGY AND BIODIVERSITY | BOTT31A | B.Sc.(BZC) - Botany | 2020-21 | Employability in the field of medicinal botony and imparting knowledge in identification of angiospermic plants. |
| 8 | PLANT PHYSIOLOGY AND METABOLISM | BOTT01 | B.Sc.(BZC) - Botany | 2020-21 | Employability in the field of medicinal botony and imparting knowledge in identification of angiospermic plants. |
| 9 | ANATOMY, EMBRYOLOGY OF ANGIOSPERMS, PLANT ECOLOGY AND BIODIVERSITY LAB | BOTP31A | B.Sc.(BZC) - Botany | 2020-21 | Skill Development  Visit to an arboretum / silviculture station/Forest research institute to see the live timber yielding plants or to visit a local timber depot. to observe various woods. 2. Field visit to a nearby ecosystem to observe the abiotic-biotic relationships. 3. Visit to National park/Sanctuary/Biosphere reserve etc., to observe in-situ conservation of plants and animals. 4. Visit to a Botanical garden or Zoo to learn about ex-situ conservation of rare plants or animals. 5. Group Discussion (GD)/ Quiz/ Just A Minute (JAM) on different modules in syllabus of the course. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 10 | PLANT PHYSIOLOGY AND METABOLISM LAB | BOTP01 | B.Sc.(BZC) - Botany | 2020-21 | Skill Development  Stomata structure in plants from college campus/ their native place. 2. Report on xylem elements in plants using maceration technique. 3. Collection of information on famous herbaria in the world and preparation  of a report. 4. Microscopic observations on pollen morphology from plants in college  Campus/ their native locality. 5. Study report on germination and viability of pollen in different plants. 6. Observation of anthesis time in different plants and their pollinators. 7.A report on autecology and synecology of some plants in college campus or their native place. 8. Collection of photos of endemic/endangered plant and animal species to Makean album. |
| 11 | CELL BIOLOGY, GENETICS AND PLANT BREEDING | BOTT41A | B.Sc.(BZC) - Botany | 2020-21 | Skill Development  Group Discussion (GD)/ Quiz/ Just A Minute (JAM) on different modules in syllabus of the course. 2. Visit to a Plant Physiology laboratory in a University or Physiology division in a Agriculture/Horticulture University/Research station. |
| 12 | CELL BIOLOGY, GENETICS AND PLANT BREEDING LAB | BOTP41A | B.Sc.(BZC) - Botany | 2020-21 | Skill Development Stomatal densities among different groups of plants. 2. Various treatments (salt, cold, high temperature, heavy metals) and their effects on seed germination. 3. Effects of plant hormones (IAA, Gibberellin and Kinetin) on Seed Germination. 4. Diurnal variation of stomatal behavior in CAM and C3 plants found in local area. 5. Effects of nitrogen fertilizer on plant growth. 6. Enumeration of C3, C4 and CAM plants in the local area. 7. Effect of different light wavelengths (red light, green light, blue light) on apparent photosynthesis in terms of growth. 8. Light effects on leaf growth and leaf orientation. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 13 | Internship In Botanay | BOTIAP6 | B.Sc.(BZC) - Botany | 2022-23 | Skill Development Students are exposed to pratical knowledge in botany which enabled them to develop their project development skills and helped them in enhancing their skills as well as improving employability oppirtunities. |
| 14 | Plant Tissue Culture | BOTSET01 | B.Sc.(BZC) - Botany | 2022-23 | Employability in the field of tissue culturing techniques, enhanced knowledge in applying biotechnological tools for breeding of plants |
| 15 | Plant Tissue Culture Lab | BOTSEP01 | B.Sc.(BZC) - Botany | 2022-23 | Employability in the field of tissue culturing techniques, enhanced knowledge in applying biotechnological tools for breeding of plants |
| 16 | Mushroom Cultivation | BOTSET02 | B.Sc.(BZC) - Botany | 2022-23 | Employability in the field of production of mushrooms. |
| 17 | Mushroom Cultivation Lab | BOTSEP02 | B.Sc.(BZC) - Botany | 2022-23 | Employability in the field of production of mushrooms. |
| 18 | Plant Propagation | BOTSET03 | B.Sc.(BZC) - Botany | 2022-23 | Employability in the field of nursery management and skill enhancement for rising nursery beds suitable for ornamental and food crops. |
| 19 | Plant Propagation Lab | BOTSEP03 | B.Sc.(BZC) - Botany | 2022-23 | Employability in the field of nursery management and skill enhancement for rising nursery beds suitable for ornamental and food crops. |
| 20 | Seed Technology | BOTSET04 | B.Sc.(BZC) - Botany | 2022-23 | To train the students in seed health testing techniques purity of seeds crop improvement protection strategies and different breeding methods |
| 21 | Seed Technology Lab | BOTSEP04 | B.Sc.(BZC) - Botany | 2022-23 | To train the students in seed health testing techniques purity of seeds crop improvement protection strategies and different breeding methods |
| 22 | Vegetable Crops-Cultivation Practices | BOTSET05 | B.Sc.(BZC) - Botany | 2022-23 | To train the students in raised seed bed vegetable gardening, hydrophonic farming, greenhouse cultivating methods and diverse varieties of vegetable crops. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 23 | Vegetable Crops-Cultivation Practices Lab | BOTSEP05 | B.Sc.(BZC) - Botany | 2022-23 | To train the students in raised seed bed vegetable gardening, hydrophonic farming, greenhouse cultivating methods and diverse varieties of vegetable crops. |
| 24 | Vegetable Crops-Post Harvest | BOTSET06 | B.Sc.(BZC) - Botany | 2022-23 | Employability in the field of maintaing quality (appearance, texture, flavour and nutritive value) to protect food safety and to reduce losses between harvest and consumption |
| 25 | Vegetable Crops-Post Harvest Lab | BOTSEP06 | B.Sc.(BZC) - Botany | 2022-23 | Employability in the field of maintaing quality (appearance, texture, flavour and nutritive value) to protect food safety and to reduce losses between harvest and consumption |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM: B.Sc.(BZC) - BOTANY**

**REGULATION -15**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|--------------------|----------------------|----------------------------------------------------------------------------------------------|
| 1 | Environmental Studies | AEC 002A | B.Sc.(BZC) - Botany | 2018-19 | Skill in design, experimentation and implementation of conservation techniques |
| 2 | INTRODUCTION TO MICROBES AND THALLOPHYTA | BOTT11 | B.Sc.(BZC) - Botany | 2017-18 | Skill Development :This activity helps students develop their observation skills by closely examining leaf samples under magnification.<br>It introduces them to the concept of classification as they group leaves based on shared characteristics.<br>The creative drawing component allows students to express their understanding of the microscopic world and fosters creative thinking. |
| 3 | BRYOPHYTA, PTERIDOPHYTA, GYMNOSPERMS AND PALAEOBOTANY | BOTT21 | B.Sc.(BZC) - Botany | 2017-18 | Skill Development :This activity helps students develop their observation skills by closely examining leaf samples under magnification.<br>It introduces them to the concept of classification as they group leaves based on shared characteristics.<br>The creative |
| 4 | TAXONOMY, ANATOMY AND EMBRYOLOGY | BOTT31 | B.Sc.(BZC) - Botany | 2017-18 | skill development ::some activities that can help you learn about bryophytes, pteridophytes, gymnosperms, and paleobotany: |
| 5 | PLANT PHYSIOLOGY AND METABOLISM | BOTT41 | B.Sc.(BZC) - Botany | 2018-19 | skill development :Plant Physiology Presentations: Prepare a presentation on a specific topic in plant physiology, such as the role of stomata in gas exchange, the importance of mineral nutrients, or the mechanisms of plant hormone action. Use visuals and clear explanations to communicate your |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 6 | CELL BIOLOGY, GENETICS AND PLANT BREEDING | BOTT51 | B.Sc.(BZC) - Botany | 2017-18 | Skill Development:<br>Observation: Students closely observe cell models and genetic simulations.<br>Critical Thinking: They analyze inheritance patterns and devise breeding strategies.<br>Problem-Solving: Students overcome challenges in creating the desired plant genotype.<br>Communication: They present their findings and breeding strategies to others. |
| 7 | PLANT ECOLOGY AND PHYTOGEOGRAPHY | BOTT52 | B.Sc.(BZC) - Botany | 2017-18 | Skill Development:Observation: Students closely examine plant adaptations and habitat details.<br>Analysis: They break down the reasons behind plant distribution.<br>Critical Thinking: Students consider the complex interplay of ecological factors. |
| 8 | Introduction to Microbes and Thallophyta Lab | BOTP11 | B.Sc.(BZC) - Botany | 2017-18 | Skill enhancement in the field of micro biology and thallophyte study. |
| 9 | Bryophyta, Pteridophyta and Gymnospems and Palaeobotany Lab | BOTP21 | B.Sc.(BZC) - Botany | 2017-18 | Skill enhancement by providing knowledge in identification and study of vascular and non vascular plants. |
| 10 | Taxonomy, Anatomy and Embryology Lab | BOTP31 | B.Sc.(BZC) - Botany | 2017-18 | Employability in the field of medicinal botony and imparting knowledge in identification of angiospermic plants. |
| 11 | Plant Physiology and Metabolism Lab | BOTP41 | B.Sc.(BZC) - Botany | 2018-19 | Skill enhancement in the field of experimental observations in plant physiology and identification of metobolism in plants. |
| 12 | Cell Biology, Genetics and Plant Breeding Lab | BOTP51 | B.Sc.(BZC) - Botany | 2017-18 | Providing the knowledge in cellular functions of plants, change in genotype and phenotypes in plant breeding and genetically engineered crop variety biotechnologically. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 13 | Plant Ecology and Phytogeography Lab | BOTP52 | B.Sc.(BZC) - Botany | 2017-18 | Skill enhancement in conservational processes and identification of interaction of environment with biotic components with respect to geographical vegetation. |
| 14 | Organic farming & sustainable agriculture | BOTTEL62 | B.Sc.(BZC) - Botany | 2018-19 | Divide the Land: Divide the planting area into two sections or use individual pots for each group. Label one section "Organic Farm" and the other "Conventional Farm" using cardboard signs and markers. Compost Power: At the "Organic Farm" section, add a layer of |
| 15 | Nursery, Gardening and Floriculture. | BOTTEL63 | B.Sc.(BZC) - Botany | 2018-19 | Nursery Nooks : Seed Selection: Present students with a variety of seed packets. Discuss the different types of vegetables, flowers, and herbs available. Let them choose a few seeds they'd like to grow. Planting Powerhouse: Demonstrate how to prepare the seed |
| 16 | Plant Tissue Culture and its Biotechnological Applications -Lab | BOTPEL61A | B.Sc.(BZC) - Botany | 2018-19 | Skill enhancement in culturing of plants in in-vitro and imparting knowledge in production of various tissue cultured plants. |
| 17 | Organic farming & sustainable agriculture-Lab | BOTPEL62 | B.Sc.(BZC) - Botany | 2018-19 | Employability in the field of production of organic plants there by imparting knowledge in creating a sustainable agricultural farms as enterpreneurs. |
| 18 | Nursery, Gardening and Floriculture- Lab | BOTPEL63 | B.Sc.(BZC) - Botany | 2018-19 | Employability in the field of nursery management and skill enhancement for rising nursery beds suitable for ornamental and food crops. |
| 19 | Plant Diversity and Human Welfare Lab | BOTPCL61A | B.Sc.(BZC) - Botany | 2018-19 | Imparting knowledge in secondary metabolite production from plants for the commercial purpose. |
| 20 | Ethnobotany and Medicinal Botany Lab | BOTPCL62A | B.Sc.(BZC) - Botany | 2018-19 | Skill enhancement in preserving the medicinal plants through traditional knowledge and the use of ethinic plants. |
| 21 | Pharmacognosy and Phytochemistry Lab | BOTPCL63A | B.Sc.(BZC) - Botany | 2018-19 | Skill enhancement in the production of crude drugs and imparting knowledge in the field of making modern medicine using phytochemical constituents. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 22 | Biological instrumentation and Methodology | BOTTCL64 | B.Sc.(BZC) - Botany | 2018-19 | skill enhancement in handling different type of instruments. |
| 23 | Biological instrumentation and Methodology | BOTPCL64 | B.Sc.(BZC) - Botany | 2018-20 | skill enhancement in handling different type of instruments. |
| 24 | Mushroom Culture and Technology | BOTTCL65 | B.Sc.(BZC) - Botany | 2018-19 | skill enhancement in the field of cultivation of mushrooms. |
| 25 | Mushroom Culture and Technology | BOTPCL65 | B.Sc.(BZC) - Botany | 2018-19 | Employability in the field of production of mushrooms. |
| 26 | Internship/ Project Work preferably either in an Institute or Industry | BOT PWCL66 | B.Sc.(BZC) - Botany | 2018-19 | Employability in the field of culturing of in vitro plants. |

**Criterion I - Curricular Aspects**                     **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM:** B.Sc. (MPC & BZC) - CHEMISTRY

**REGULATION -20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|------------------------------------------------------------------------------------------------|
| 1 | ENVIRONMENTAL AUDIT | SDCCHET02 | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Skill :Visit to understand Institutional arrangements and functioning of Pollution Control Boards. 2. Visiting different Ecosystems 3. Soil analysis: Determination of soil type and texture, pH, Soil Moisture, Nitrogen, Potassium and Phosphorous. 4. Water analysis: Determination of pH, Dissolved solids and suspended solids, Dissolved Oxygen, COD, BOD. 5. Assignments, Group discussion, Quiz etc. |
| 2 | Inorganic and Physical Chemistry | CHET11A | B.Sc.(MPC & BZC) - Chemistry | 2020-21 | Employability:To understand the basics of chemistry |
| 3 | Analysis of Salt Mixture Lab | CHEP11A | B.Sc.(MPC & BZC) - Chemistry | 2020-21 | Skill: To know the reactions of anions and cations in a simple salt |
| 4 | Organic and General Chemistry | CHE T21A | B.Sc.(MPC & BZC) - Chemistry | 2020-21 | Employability: To known the elements in the s & p blocks and gain the knoledge of hydrocarbons |
| 5 | Volumetric Analysis Lab | CHE P21A | B.Sc.(MPC & BZC) - Chemistry | 2020-21 | Skill, Employability: To know the reactions of anions and cations in mixture |
| 6 | ORGANIC CHEMISTRY AND SPECTROSCOPY | CHET31A | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Employability: To understand the general characteristics of d&f block ,know the general methods of organic compounds |
| 7 | ORGANIC PREPARATIONS AND IR SPECTRAL ANALYSIS | CHEP31A | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Skill: To gain the knowledge of functional groups of organic compounds |
| 8 | INORGANIC AND PHYSICAL CHEMISTRY | CHET41A | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Employability,Entrepreneurship: To know the general principles  involved spectroscopic methods |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 9 | CONDUCTO METRIC AND POTENTIO METRIC TITRIMETRY LAB | CHEP41A | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Employability,Entrepreneurship:To understand IR spectral analysis of different organic compounds |
| 10 | INORGANIC, ORGANIC AND PHYSICAL CHEMISTRY | CHET01 | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Skill,Employability :Monitoring the progress of student's learning Class Tests, Work sheets and Quizzes Presentations, Projects and Assignments and Group Discussions: Enhances critical thinking skills and personality Semester-end Examination: critical indicator of student's learning and teaching methods adopted by teachers throughout the semester. |
| 11 | ORGANIC QUALITATIVE ANALYSIS LAB | CHEP01 | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Skill,Employability: Analysis of an organic compound through systematic qualitative procedure for functional group identification including the determination of melting point and boiling point with suitable derivatives. Alcohols, Phenols, Aldehydes, Ketones, Carboxylic acids, Aromatic primary amines, amides and simple sugars |
| 12 | Environmental Audit | SDCCHET02 | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Skill:Analyze a process and identify how it may be made more environmentally friendly/sustainable/green |
| 13 | Internship In Chemistry | CHEIAP6 | B.Sc.(MPC & BZC) - Chemistry | 2022-23 | Skill,Employability:Students are exposed to pratical knowledge in chemistry which enabled them to develop their project development skills  and helped them in enhancing their skills as well as improving employability oppirtunities. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|------------------------------------------------------------------------------------------|
| 14 | Analytical Methods In Chemistry-1 | CHESET01 | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Employability:To under stand the importance of analytical methods treatment of analytical data ,error analysis used in reaserch and industry |
| 15 | Analytical Methods In Chemistry-1 Lab | CHESEP01 | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Skill:To know the general charecteristics of  the analytical methods used in drugs ,foods and dairy products |
| 16 | Analytical Methods In Chemistry-2 | CHESET02 | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Employability:Students will acquire collabrative knowledge  through working in ateam to analysis of drugs using HPLC instrument to achive the project goals |
| 17 | Analytical Methods In Chemistry-2 Lab | CHESEP02 | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Skill , Eentrepreneurship: Students will acquire collabrative skills through working in ateam to analysis of drugs using HPLC instrument to achive the project goals |
| 18 | Synthetic Organic Chemistry | CHESET03 | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Employability: To understand  general methods of organic compounds and their reactions |
| 19 | Synthetic Organic Chemistry  Lab | CHESEP03 | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Skill:To understand  general methods of organic compounds and their reactions |
| 20 | Analysis Of Organic Compounds | CHESET04 | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Entrepreneurship, Skill: to understand the significance of paper, TLC, Column, GC & HPLC in separation and identification of compounds |
| 21 | Analysis Of Organic Compounds Lab | CHESEP04 | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Skill: Acquire skills in using column chromatography for the separation of dye mixture |
| 22 | Industrial Chemistry-1 | CHESET05 | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Employability: Understand the concepts related to fertilizers, silicates, surface coatings, sugar chemistry & paper industry |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|--------------------|--------------------|---------------------------------------------------------------------------------------------|
| 23 | Industrial Chemistry-1 Lab | CHESEP05 | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Skill: Acquire skills in using colorimetry, phosphoric acid in superphosphate fertilizer Calcium in Calcium ammonium nitrate fertilizer |
| 24 | Industrial Chemistry-2 | CHESET06 | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Employability: Understand the significance of the concepts related to Organic polymers, prevention of air pollution water analysis methods and industrial management techniques |
| 25 | Industrial Chemistry-2 Lab | CHESEP06 | B.Sc.(MPC & BZC) - Chemistry | 2021-22 | Skill: procedures for the determination of BOD and COD determination of chloride in the given water sample determining the hardness of water |

**Criterion I - Curricular Aspects**          **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements
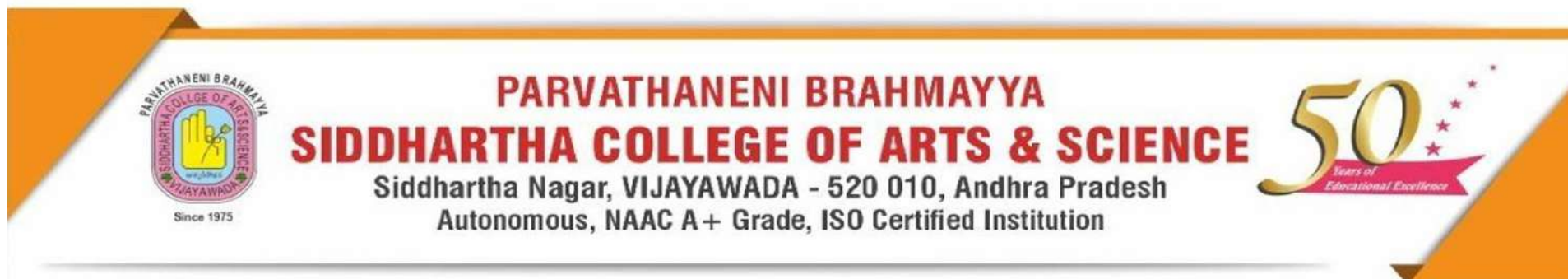
**NAME OF THE PROGRAM:** B.Sc. (MPC & BZC) - CHEMISTRY

**REGULATION -15**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|--------------------|--------------------|--------------------------------------------------------------------|
| 1 | Physical & General Chemistry | CHET11 | B.Sc.(MPC & BZC) - Chemistry | 2015-16 | Employability :To understand the basics of chemistry |
| 2 | Qualitative Inorganic Analysis Lab-I | CHEP11 | B.Sc.(MPC & BZC) - Chemistry | 2015-16 | Employability, Skill:To know the reactions of anions and cations in a simple salt |
| 3 | Inorganic & Organic Chemistry-I | CHET21 | B.Sc.(MPC & BZC) - Chemistry | 2015-16 | Employability:To known the elements in the s & p blocks and gain the knoledge of hydrocarbons |
| 4 | Qualitative Inorganic Analysis Lab-II | CHEP21 | B.Sc.(MPC & BZC) - Chemistry | 2015-16 | Employability, Skill:To know the reactions of anions and cations in mixture |
| 5 | Inorganic & Organic Chemistry-II | CHET31 | B.Sc.(MPC & BZC) - Chemistry | 2015-16 | Employability :To understand the general characteristics of d&f block ,know the general methods of organic compounds |
| 6 | Titrimetric Analysis and Orgaanic functional Group Reactions lab | CHEP31 | B.Sc.(MPC & BZC) - Chemistry | 2015-16 | Employability, Skill :To gain the knowledge of functional groups of organic compounds |
| 7 | Spectroscopy and Physical Chemistry | CHET41 | B.Sc.(MPC & BZC) - Chemistry | 2015-16 | Employability :To know the general principles  involved spectroscopic methods |
| 8 | Physical Chemistry and IR Spectral Analysis Lab | CHEP41 | B.Sc.(MPC & BZC) - Chemistry | 2015-16 | Employability, Skill:To understand IR spectral analysis of different organic compounds |
| 9 | Inorganic, Organic and Physical Chemistry-I | CHET51 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability:To kniow the basic knowledge of complex compounds nitro hydro carbons and thermodynamics |
| 10 | Inorganic, Organic and Physical Chemistry-II | CHET52 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability:To gain the knowledge of complex compounds, aminom acids ,carbohydrates and hetrocyclic compounds |
| 11 | Organic Chemistry Lab | CHEP51 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability, Skill:To gain the knowledge of identification of organic compounds |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 12 | Physical Chemistry Lab | CHEP52 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability, Skill:To gain the knowledge of physical properties of organic solvents |
| 13 | Analytical Methods in Chemistry | CHE TEL61 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability: Apply different qualitative & Quantitative method of analysis |
| 14 | Environmental Chemistry | CHE TEL62 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability:To know the concepts of eco systems |
| 15 | Green Chemistry | CHETEL63 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability:To gain the knowledge and need of green chemistry |
| 16 | Analytical Methods in Chemistry Lab | CHE PEL61 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability, Skill:To gain the knowledge on chromotografy technics |
| 17 | Environmental Chemistry Lab | CHE PEL62 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability, Skill:To know the scope and importance of energy sources |
| 18 | Polymer Chemistry | CHE TCL61 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Understanding the classification of Polymers and importance of polymers |
| 19 | Instrumental Methods of Analysis | CHE TCL62 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability :To under stand the importance of analytical methods treatment of analytical data ,error analysis used in reaserch and industry |
| 20 | Analysis of Drugs, Foods, Dairy Products and Biochemical Analysis | CHE TCL63 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability :To know the general charecteristics of the analytical methods used in drugs ,foods and dairy products |
| 21 | Organic Synthesis Lab | CHE PCL61 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Skill,Employability :To gain the knowledge on organic synthesis |
| 22 | Green Chemistry Lab | CHE PCL62 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Skill,Employability :To gain the knowledge on green synthesis |
| 23 | Fuel chemistry and batteries | CHE TCL64 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability :To know the fractional distilation of petrolium products |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 24 | Inorganic materials of industrial importance | CHE TCL65 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability :To know the different types of fertilisers |
| 25 | Analysis of applied industrial products | CHE TCL66 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability :To know sapanification of oils and industrial solvents |
| 26 | Practical -VIII(B1) | CHE PCL64 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Skill,Employability :Apply different qualitative & Quantitative method of analysis |
| 27 | Practical -VIII(B2) | CHE PCL65 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Skill,Employability :To gain knowledge on Pharmaceutical preparations by using conventional methods |
| 28 | Organic spectroscopic techniques | CHE TCL67 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability :To know the general acespects ofspectroscopy |
| 29 | Advanced organic reactions | CHE TCL68 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability :Toaquire the knowledge of new synthetic reactions |
| 30 | Pharmaceutical and medicinal chemistry | CHE TCL69 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Employability :To gain the knowledge of pharmaceutical and medicinal chemistry |
| 31 | Practical -VIII(C1) | CHE PCL67 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Skill,Employability :To gain the knowledge of physical properties of organic solvents |
| 32 | Practical -VIII(C2) | CHE PCL68 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Skill,Employability :analyze a process and identify how it may be made more environmentally friendly/sustainable/green |
| 33 | Project Work | CHE PWCL63 | B.Sc.(MPC & BZC) - Chemistry | 2017-18 | Skill,Employability and Entrepreneurship :Students will acquire collabrative skills through working in ateam to analysis of drugs using HPLC instrument to achive the project goals |

**Criterion I - Curricular Aspects**             **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM:** Bachelor of Commerce (B.Com)

**REGULATION - 20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Internship in Commerce | COHIAP6 | B.Com | 2022-23 | Employability: Reporting on Internship Content: The student is expected to participate, contribute and learn the ropes of the works and activities of organizations |
| 2 | Accounting For Corporate Restructuring | COHSET01 | B.Com | 2022-23 | Employability: Contents: Company accounts<br>Skill Development : Contents: Methods of Liqudation and Final statement of company accounts<br>Activities: Balance sheet analysis of companies and problem solving |
| 3 | Management Accounting | COHSET02 | B.Com | 2022-23 | Skill Development: Content: Management accounting, Cash and fund flow analysis, Financial statement analysis, Marginal costing, Budget and Budgetary Control<br>Activities: Hands-on- Experience in Analysing Preparation of cash flow statement and determination of cash from operations with imaginary figures, preparation of financial statement such as compartive, commonsize, trend analysis and account ratios, Construct the marginal cost Statement, Preparation of various Budget. |
| 4 | E Commerce | COHSET03 | B.Com | 2022-23 | Employability :<br>Contents : doing business through internet.<br>Entrepreneurship:<br>Contents: E-commerce related activities<br>Activities: To do business by using internet. |
| 5 | E Filing | COHSET04 | B.Com | 2022-23 | Contents: E filing                              Skill developmnet                              Content: Practical filing of income tax returns            Activities: Filing of income tax returns of individuals and firms |
| 6 | Stock Markets | COHSET05 | B.Com | 2022-23 | Employability:<br>Content: Financial anlysis for Primary and Secondary level<br>Skill Development:<br>Contents: Indian stock amrket<br>Activities: Share trading training and  Demat Accoount |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 7 | Stock Market Analysis | COHSET06 | B.Com | 2022-23 | Employability: Content: Financial anlysis for Primary and Secondary level Skill Development: Contents: Indian stock amrket Activities: Share trading training and Demat Accoount |
| 8 | Tax Planning And Management | COHSET07 | B.Com | 2022-23 | Employability- Content: Avoidance of double taxation agreements, tax planning and its management.                    Activity- Workshop on tax planning and management. |
| 9 | Accounting Packages (Tally) | COHSET08 | B.Com | 2022-23 | Employability: Contents : Accounting Report                    Skill Development Contents : Tally ERP Activities  : Problem solving and ledger creation |
| 10 | Portfolio Management | COHSET09 | B.Com | 2022-23 | Employability, Entrepreneurship,  Skill development-Activity-1. Guest lecture – "Investors Protection"Mr. B Santosh Reddy 2.Seminar - Mutual Funds, shares & LIC - Investment planning for individual - Certificate course Content:Capital market & portfolio analysis |
| 11 | Accounting Packages (Tally) | COHSET10 | B.Com | 2022-23 | Employability: Contents : Accounting Report                    Skill Development Contents : Tally ERP Activities  : Problem solving and ledger creation |
| 12 | Capital Markets For Bps | COHSET11 | B.Com | 2022-23 | Employability:Activity:Orientation in on the prospects in the area of investment management |
| 13 | Supply Chain Managements | COHSET12 | B.Com | 2022-23 | Activity:Loaction Analysis Content:Coordination in a Supply Chain-Bullwhip Effect, Obstacles to Coordination, Managerial levers to Achieve Coordination ,Collaborative Planning, Forecasting and Replenishment (CPFR) |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 14 | Income Tax-III | COHSET13 | B.Com | 2022-23 | Employability: Contents: Assessment procedures of individuals, companies, firms, HUF                Skill Development : Activities: Assessment of individuals, firms, HUF and companies by collecting their data. |
| 15 | Customs | COHSET14 | B.Com | 2022-23 | Skill development and Employability                Contents: Customs duties, types export and import procedure. |
| 16 | Managing Business Process-II | COHSET16 | B.Com | 2022-23 | Skill Development:                Consists of various forms of business Process and its management. EEmployability:students will be recruited by TCS as it is TCS integrated course.                Activities: Case study |
| 17 | Financial Services | COHSET17 | B.Com | 2022-23 | Employability: Content: Indian Financial system Skill Development: Contents: Merchant banking anf Factoring Activities: Share trading training and Role paly |
| 18 | Indian Financial System | COHSET18 | B.Com | 2022-23 | Skill Development Content: Indian financial system Activities conducted- SEBI Workshop & Visit |
| 19 | Fundamentals of Accounting | COHT11 | B.Com | 2015-16 | Skill Development Contents : Book keeping, Final accounts and BRS Activities: To facilitate students to understand and to gain knowledge about the concepts and principles of financial accounting. |
| 20 | Business Organization and Management | COHT12A | B.Com | 2015-16 | Skill Development:                Consists of various forms of business and company formation procedure. Entrepreneurship: students can start their own business. Activities: Case study |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 21 | Banking Theory and Practice | COHT13 | B.Com | 2015-16 | Employability :<br>Contents : Consumer protection<br>Entrepreneurship:<br>Contents : Environment factors<br>Activities : Role play to develop skills in business |
| 22 | Financial Accounting –I | COHT21A | B.Com | 2015-16 | Skill Development<br>Contents : Book keeping, Final accounts and BRS<br>Activities: To facilitate students to understand and to gain knowledge about the concepts and principles of financial accounting. |
| 23 | Business Environment | COHT22A | B.Com | 2015-16 | Employability:<br>Content: Banking , Customer and E- banking<br>Activities: Group disicussion |
| 24 | Elements of financial management | COHT24 | B.Com | 2015-16 | Employability:<br>Contents: Capital structure and Capital budjeting<br>Skill Development<br>Contents : Cost of capital, capital evaluation techniques<br>Activities : Problem solving techniques and Creative thinking |
| 25 | Finance and accounting for BPS | COHT25 | B.Com | 2020-21 | Skill Development<br>Contents : Book keeping, Final accounts and BRS<br>Activities: To facilitate students to understand and to gain knowledge about the concepts and principles of financial accounting. |
| 26 | FINANCIAL ACCOUNTING-II | COHT31 | B.Com | 2017-18 | Skill Development<br>Contents : Book keeping, Final accounts and BRS<br>Activities: To facilitate students to understand and to gain knowledge about the concepts and principles of financial accounting. |
| 27 | Financial Accounting-II | COHT31 | B.Com | 2015-16 | Skill Development<br>Contents : Consignment, joint venture, Final accounts and Rectification of errors<br>Activities: To facilitate students to understand and to gain knowledge about the accounting for special transactions and preparation of final accounts. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 28 | INSURANCE FOR BPS | COHT310 | B.Com | 2017-18 | Skill Development:                Consists of various forms of Insurancefor business Process. Employability:students will be recruited by TCS as it is TCS integrated course.          Activities: Case study |
| 29 | BANKING FOR BUSINESS PROCESS SERVICES | COHT311 | B.Com | 2017-18 | Skill Development:                Consists of various banking activities including prevention of money laundering. Employability:students will be recruited by TCS as it is TCS integrated course.          Activities: Case study |
| 30 | BUSINESS LAWS | COHT33A | B.Com | 2017-18 | Employability: Contents: Business contract, Law relating to minor and agency Activities: Case study |
| 31 | INCOME TAX-I | COHT34A | B.Com | 2017-18 | Employability: Contents: Assessment procedures of individuals, companies, firms, HUF                          Skill Development : Activities: Assessment of individuals, firms, HUF and companies by collecting their data. |
| 32 | DIRECT TAX | COHT36 | B.Com | 2017-18 | Employability: Contents: Assessment procedures of individuals, companies, firms, HUF                          Skill Development : Activities: Assessment of individuals, firms, HUF and companies by collecting their data. |
| 33 | FINANCIAL MANAGEMENT | COHT37 | B.Com | 2017-18 | Employability: Contents: Capital structure and Capital budjeting Skill Development Contents : Cost of capital, capital evaluation techniques Activities  : Problem solving techniques and Creative thinking |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|---------------------------------------------------------------------------------------------|
| 34 | AUDITING | COHT38 | B.Com | 2017-18 | Employability-Activity-Presentation Content::Audit planning, audit programme, audit notebook, audit Working papers, audit evidence, internal control, internal audit, internal check, vouchingof cash & trading transactions, verification & valuation of assets & Liabilities, company audit & audit report |
| 35 | MARKETING MANAGEMENT | COHT39 | B.Com | 2017-18 | Skill Development: Contents : Buyer's behaviuor Employability : Contents : Channel of distribution Entrepreneurship: Contents :Sales promotion Activities  : Role play and Behaviour related activities |
| 36 | ACCOUNTING FOR CORPORATE ISSUES | COHT41 | B.Com | 2017-18 | Employability: Contents: Company accounts Skill Development : Contents: Methods of Liqudation and Final statement of company accounts Activities: Balance sheet analysis of companies and problem solving |
| 37 | MANAGING BUSINESS PROCESSES-I | COHT410 | B.Com | 2021-22 | Skill Development:                                    Consists of various forms of business Process and its management. EEmployability:students will be recruited by TCS as it is TCS integrated course.                Activities: Case study |
| 38 | RETAIL AND MARKET RESEARCH | COHT411 | B.Com | 2021-22 | Skill Development Contents: Retail and market research techniques Activities : Problem solving |
| 39 | CORPORATE LAWS | COHT43 | B.Com | 2017-18 | Employability: Contents: MOA and AOA Activities  : Model company creation procedures and awarness |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|---------------------------------------------------------------------------------------------|
| 40 | INCOME TAX-II | COHT44A | B.Com | 2017-18 | Employability: Contents: Assessment procedures of individuals, companies, firms, HUF                    Skill Development : Activities: Assessment of individuals, firms, HUF and companies by collecting their data. |
| 41 | INDIRECT TAX LAWS | COHT46 | B.Com | 2017-18 | SD-Preparation and filing of tax, Research Paper presentation on GST |
| 42 | COST ACCOUNTING | COHT47 | B.Com | 2017-18 | Employability: Contents : Training in cost management Skill Development Contents : Cost techniques and cost sheet Activities  : Cost sheet preparation and Hands -on training |
| 43 | GOODS AND SERVICE TAX | COHT48 | B.Com | 2017-18 | Skill development                                     content: GST Law Employability:  GST clerk or Skilled GST Professional Activities: Seminar on GST return filing |
| 44 | SECURITY ANALYSIS | COHT49 | B.Com | 2017-18 | Employability, Entrepreneurship,  Skill development-Activity-1. Guest lecture – "Investors Protection"Mr. B Santosh Reddy 2.Seminar - Mutual Funds, shares & LIC - Investment planning for individual - Certificate course Content:Capital market & portfolio analysis |
| 45 | Internship in Commerce | COMIAP5 | B.Com | 2022-23 | Students are exposed to pratical knowledge in commerce and accountancy tools which enabled them to develop their project development skills  and helped them in enhancing their skills as well as improving employability oppirtunities. |
| 46 | Advanced Corporate Accounting | COMSET01 | B.Com | 2022-23 | Employability: Contents: Company accounts Skill Development : Contents: Methods of Liqudation and Final statement of company accounts Activities: Balance sheet analysis of companies and problem solving |

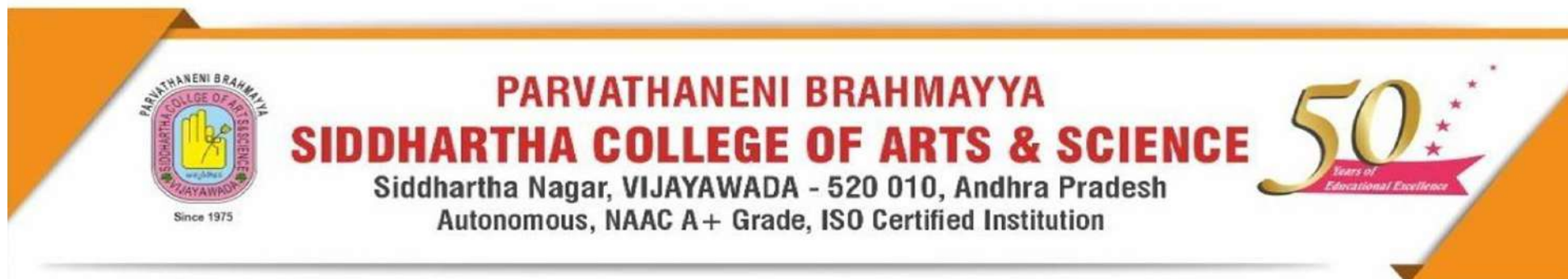| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 47 | Cost Control Techniques | COMSET04 | B.Com | 2022-23 | Employability-Activity-Presentation Content: ABC costing, contract costing ,process costion, standard costing and variance analysis. |
| 48 | Stock Markets | COMSET05 | B.Com | 2022-23 | Employability: Content: Financial anlysis for Primary and Secondary level Skill Development: Contents: Indian stock amrket Activities: Share trading training and Demat Accoount |
| 49 | Stock Market Analysis | COMSET06 | B.Com | 2022-23 | Employability: Content: Financial anlysis for Primary and Secondary level Skill Development: Contents: Indian stock amrket Activities: Share trading training and Demat Accoount |
| 50 | Life Insurance With Practice With Practice | COMSET07 | B.Com | 2022-23 | Employability, Skill Development, Entrepreneurship Development-Activity -Guest lecture Content:mutual funds,financial markets, life insurance general insurance |
| 51 | General Insurance | COMSET08 | B.Com | 2022-23 | Collection of pamphlets of various insurance forms and procedures  2. Invited Lectures by Development Officers concerned 3. Mock practice of selling of insurance products  4. Preparation of working documents  5. Assignments, Group discussion, Quiz etc. |
| 52 | Logistics Services And Practice | COMSET09 | B.Com | 2022-23 | Activity:Loaction Analysis Content:Coordination in a Supply Chain-Bullwhip Effect, Obstacles to Coordination, Managerial levers to Achieve Coordination ,Collaborative Planning, Forecasting and Replenishment (CPFR) |
| 53 | Export Procedure And Practice | COMSET10 | B.Com | 2022-23 | SD/EN- Taxation  practicalities of both Direct Taxes and GST. This is particularly helpful for planning taxes both from an individual and corporate perspective. Budding Entrepreuneurs also need a comprehensive understanding of the concepts of GST. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|---------------------------------------------------------------------------------------------|
| 54 | Advertising and Media Planning | COMSET11 | B.Com | 2022-23 | Employability:<br>Contents: Adertising and Media planning<br>Skill Development:<br>Contents : Adertising strategies and media planningproduct development Activities  : Role play,Panel and Group discussion |
| 55 | Advertising And Media Planning | COMSET11 | B.Com | 2022-23 | Employability:<br>Contents: Adertising and Media planning<br>Skill Development:<br>Contents : Adertising strategies and media planningproduct development Activities  : Role play,Panel and Group discussion |
| 56 | Sales Promotion And Practice | COMSET12 | B.Com | 2022-23 | Employability:<br>Contents: Salesmanship and Sales Promotion<br>Skill Development:<br>Contents : Sales strategies and New product development<br>Activities  : Role play,Panel and Group discussion |
| 57 | Income Tax Assessment Procedures And Practice | COMSET13 | B.Com | 2022-23 | Employability:<br>Contents: Assessment procedures of individuals, companies, firms, HUF                              Skill Development :<br>Activities: Assessment of individuals, firms, HUF and companies by collecting their data. |
| 58 | Gst Procedure &Practice | COMSET14 | B.Com | 2022-23 | Skill Development:<br>Contents : GST Act<br>Employability :  Students can be appointed as an Accountant including filing of GST returns.<br>Entrepreneurship:<br> GST consultant<br>Activities  : Workshop on GST |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|---------------------------------------------------------------------------------------------|
| 59 | Digital Marketing | COMSET15 | B.Com | 2022-23 | Skill Development:<br>Contents : Buyer's behaviuor<br>Employability :<br>Contents : Channel of distribution<br>Entrepreneurship:<br>Contents :Sales promotion<br>Activities  : Role play and Behaviour related activities |
| 60 | Service Marketing | COMSET16 | B.Com | 2022-23 | Employability:<br>Contents : Banking and Insurance<br>Skill Development<br>Contents : Pricing tecniques<br>Activities  : Panel, Role play and Case study |
| 61 | E Commerce | COMSET17 | B.Com | 2022-23 | Employability :<br>Contents : doing business through internet.<br>Entrepreneurship:<br>Contents: E-commerce related activities<br>Activities: To do business by using internet. |
| 62 | E Filing | COMSET18 | B.Com | 2022-23 | Contents: E filing                              Skill developmnet                              Content: Practical filing of income tax returns            Activities: Filing of income tax returns of individuals and firms |
| 63 | Software Solutions To Accounting | COMSETP01 | B.Com | 2022-23 | Employability:<br>Contents : Accounting Report                  Skill Development<br>Contents : Tally ERP<br>Activities  : Problem solving and ledger creation |
| 64 | Fundamentals of Accounting-I | COMT11A | B.Com | 2015-16 | Skill Development<br>Contents : Book keeping, Final accounts and BRS<br>Activities: To facilitate students to understand and to gain knowledge about the concepts and principles of financial accounting. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|------------------------------------------------------------------------------------------------|
| 65 | Business Organisation | COMT12A | B.Com | 2015-16 | Skill Development Contents : Management by objectives, Decision making, Organisation Structure Activities : Case study presentation and Problem solving session. |
| 66 | Business environment | COMT14 | B.Com | 2015-16 | Skill Development : Contents : Micro and macro enironment. Employability: Contents : Environment factors Activities : Role play to develop skills in business |
| 67 | Financial accounting | COMT21A | B.Com | 2015-16 | Skill Development Contents : Book keeping, Final accounts and BRS Activities: To facilitate students to understand and to gain knowledge about the concepts and principles of financial accounting. |
| 68 | Business Environment | COMT22A | B.Com | 2015-16 | Skill Development : Contents : Micro and macro enironment. Employability: Contents : Environment factors Activities : Role play to develop skills in business |
| 69 | Banking Theory and Practice | COMT22B | B.Com | 2020-21 | Entrepreneurship, employment-Activity-Guest lecture Content:innovations in banking, Negotiable instruments & Advances |
| 70 | ADVANCED ACCOUNTING | COMT31A | B.Com | 2021-22 | Skill Development Contents : Book keeping, Final accounts and BRS Activities: To facilitate students to understand and to gain knowledge about the concepts and principles of financial accounting. |
| 71 | BUSINESS STATISTICS | COMT32 | B.Com | 2021-22 | Skill Development Contents : Matrix and measures of central tendency Activities : Problem solving |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 72 | BUSINESS LAWS | COMT37 | B.Com | 2021-22 | Employability:<br>Contents: Business contract, Law relating to minor and agency<br>Activities: Case study |
| 73 | GOODS AND SERVICE TAX | COMT38 | B.Com | 2021-22 | SD-Preparation and filing of tax, Research Paper presentation on GST |
| 74 | Marketing of Financial Service | COMT410 | B.Com | 2022-23 | Employability:<br>Content: Indian Financial services<br>Skill Development:<br>Contents: Merchant banking anf Factoring<br>Activities: Case study |
| 75 | CORPORATE ACCOUNTING | COMT41A | B.Com | 2021-22 | Employability:<br>Contents: Company accounts<br>Skill Development :<br>Contents: Methods of Liqudation and Final statement of company accounts<br>Activities: Balance sheet analysis of companies and problem solving |
| 76 | INCOME TAX | COMT43A | B.Com | 2021-22 | Employability:<br>Contents: Incomes under various heads<br>Skill Development :<br>Activities: Computation of income under various heads by collecting data. |
| 77 | COST AND MANAGEMENT ACCOUNTING | COMT45 | B.Com | 2021-22 | Employability:<br>Contents : Training in cost management<br>Skill Development<br>Contents : Cost techniques and cost sheet<br>Activities  : Cost sheet preparation and Hands -on training |
| 78 | AUDITING | COMT46 | B.Com | 2021-22 | Employability-Activity-Presentation<br>Content::Audit planning, audit programme, audit notebook, audit Working papers, audit evidence, internal control, internal audit, internal check, vouchingof cash & trading transactions, verification & valuation of assets & Liabilities, company audit & audit report |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 79 | MARKETING | COMT47 | B.Com | 2021-22 | Skill Development: Contents : Buyer's behaviuor Employability : Contents : Channel of distribution Entrepreneurship: Contents :Sales promotion Activities : Role play and Behaviour related activities |
| 80 | Taxation | COMT48 | B.Com | 2017-18 | Employability- Activity- Workshop on computation of tax liability Content:computation of income from salary, house property, business & profession, taxable capital gain |
| 81 | Insurance Promotion | SDCCOMT01 | B.Com | 2020-21 | Collection of pamphlets of various insurance forms and procedures 2. Invited Lectures by Development Officers concerned 3. Mock practice of selling of insurance products 4. Preparation of working documents 5. Assignments, Group discussion, Quiz etc. |
| 82 | INSURANCE PROMOTION | SDCCOMT01 | B.Com | 2021-22 | Collection of pamphlets of various insurance forms and procedures 2. Invited Lectures by Development Officers concerned 3. Mock practice of selling of insurance products 4. Preparation of working documents 5. Assignments, Group discussion, Quiz etc. |
| 83 | Insurance Promotion | SDCCOMT01 | B.Com | 2021-22 | Collection of pamphlets of various insurance forms and procedures 2. Invited Lectures by Development Officers concerned 3. Mock practice of selling of insurance products 4. Preparation of working documents 5. Assignments, Group discussion, Quiz etc. |
| 84 | LOGISTICS AND SUPPLY CHAIN MANAGEMENT | SDCCOMT05 | B.Com | 2021-22 | Activity:Loaction Analysis Content:Coordination in a Supply Chain-Bullwhip Effect, Obstacles to Coordination, Managerial levers to Achieve Coordination ,Collaborative Planning, Forecasting and Replenishment (CPFR) |
| 85 | Logistic And Supply Chain Management | SDCCOMT05 | B.Com | 2021-22 | Activity:Loaction Analysis Content:Coordination in a Supply Chain-Bullwhip Effect, Obstacles to Coordination, Managerial levers to Achieve Coordination ,Collaborative Planning, Forecasting and Replenishment (CPFR) |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM: Bachelor of Commerce (B.Com)**

**REGULATION - 15**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Fundamentals of Accounting | COHT11 | B.Com | 2015-16 | **Employability & Skill development :** Familiarize students with Accounting Practices |
| 2 | Business Organization and Management | COHT12A | B.Com | 2015-16 | **,Entrepreneurship & Skill development :** Knowledge about Business Organizations ,management concepts, and thoughts |
| 3 | Banking Theory and Practice | COHT13 | B.Com | 2015-16 | **Employability & Skill development :** Provide basic knowledge of theory and practices of banking |
| 4 | Financial Accounting –I | COHT21A | B.Com | 2015-16 | **Employability & Skill development :** Familiarize students with Accounting Practices |
| 5 | Business Environment | COHT22A | B.Com | 2015-16 | **Entrepreneurship & Skill development :** Awareness about the need and importance of business environment |
| 6 | Financial Accounting-II | COHT31 | B.Com | 2016-17 | **Employability & Skill development :** Familiarize students with Accounting Practices |
| 7 | Elements of Financial Management | COHT32 | B.Com | 2016-17 | **Employability & Skill development :** Familiarize students with conceptual framework of financial management |
| 8 | Business Laws | COHT33 | B.Com | 2016-17 | **Entrepreneurship & Skill development :** Familiarize students with legal aspects of business |
| 9 | **Income tax –I** | COHT34A | B.Com | 2016-17 | **Employability & Skill development :** Expose students about latest provisions of Income Tax act. |
| 10 | Business, Government & Society | COHT35 | B.Com | 2016-17 | **Entrepreneurship & Skill development :** To impart knowledge on business, government. society |
| 11 | Direct Tax | COHT36 | B.Com | 2017-18 | **Employability & Skill development :** Expose students about latest provisions of Income Tax act. |
| 12 | Accounting for Corporate Issues | COHT41 | B.Com | 2016-17 | **Employability & Skill development :** Enable students to develop awareness about corporate accounting |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 13 | Financial Management | COHT42 | B.Com | 2016-17 | **Employability & Skill development :**Familiarize students with conceptual framework of financial management |
| 14 | Corporate Laws | COHT43 | B.Com | 2016-17 | **Employability & Skill development :**Expose students about latest provisions of corporate laws. |
| 15 | Indirect Tax-II | COHT44A | B.Com | 2016-17 | **Employability ,Employability & Skill development :**Knowledge on Principles and Law relating to Indirect Tax |
| 16 | Marketing Management | COHT45 | B.Com | 2016-17 | **Employability ,Entrepreneurship & Skill development** :Conceptual awareness on various marketing strategies |
| 17 | Indirect Tax Laws | COHT46 | B.Com | 2018-19 | **Employability ,Entrepreneurship & Skill development** Knowledge on Principles and Law relating to Indirect Tax |
| 18 | Accounting for Corporate Restructuring | COHT51 | B.Com | 2017-18 | **Employability & Skill development** :Knowledge on Principles and Law relating to Indirect Tax |
| 19 | Cost Accounting | COHT52 | B.Com | 2017-18 | **Employability & Skill development :**Familiarize the students with cost concepts |
| 20 | Indian Financial Service | COHT53 | B.Com | 2017-18 | **Employability & Skill development :**Familiarize students with the structure and functioning of the financial markets |
| 21 | Security Analysis | COHT54 | B.Com | 2017-18 | **Employability & Skill development** :Understanding about security analysis and management. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 22 | Management Accounting | COHT55 | B.Com | 2017-18 | **Employability & Skill development :**Enable students to have thorough knowledge on the management accounting techniques in business decision making |
| 23 | Goods and Service Tax | COHT56 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development :**Understand various concepts related to GST |
| 24 | Fundamentals of e-Commerce | COHT57 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development :**Awareness of Fundamentals of e Commerce |
| 25 | Human Resource Management | COHT58 | B.Com | 2018-19 | **Employability ,Entrepreneurship & Skill development :**Build knowledge on Methodologies, principles, and Practices of Human Resource Management |
| 26 | Income tax-III | COHT59 | B.Com | 2018-19 | **Employability ,Entrepreneurship & Skill development :**Expose students about latest provisions of Income Tax act for assessement of income tax. |
| 27 | Purchase Management | COHT510 | B.Com | 2017-18 | **Employability & Skill development :**Impart knowledge on various aspects of purchase management |
| 28 | Stores Management | COHT511 | B.Com | 2017-18 | **Employability & Skill development :**Impart knowledge on various aspects of stores management |
| 29 | Principles and Practice of Insurance | COHT512 | B.Com | 2017-18 | **Employability & Skill development :**Equip with principles and practice of Insurance |
| 30 | Laws Relating to Insurance | COHT513 | B.Com | 2017-18 | **Employability & Skill development :**Understanding the laws relating to Insurance |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 31 | International Accounting | COH T61 | B.Com | 2017-18 | **Employability :**Understanding on international accounting an various dimensions. |
| 32 | Advanced Cost Accounting | COH T62 | B.Com | 2017-18 | **Employability & Skill development :**Familiarize with the practices in Advanced Cost and Management Accounting |
| 33 | Portfolio Management | COH T63 | B.Com | 2017-18 | **Employability & Skill development :**Understanding on various security analysis and management. |
| 34 | Financial Services | COH T64 | B.Com | 2017-18 | **Employability & Skill development :**Provide an In-depth knowledge on Various financial services |
| 35 | Customs | COHT65 | B.Com | 2019-20 | **Employability & Skill development :**Knowledge on Principles and Law relating to Indirect Tax |
| 36 | Auditing | COH T66 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development :**Familarise with the principles and procedure of Auditing |
| 37 | Accounting Software (Tally) | COH P67 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development :**Skill in computerized account keeping |
| 38 | Honors-Project Work | COHPW68 | B.Com | 2017-18 | **Skill development :D**eveloping various skills relating to Project preparation and Presentation |
| 39 | Tax planning and Management | COHT69 | B.Com | 2019-20 | **Employability ,Entrepreneurship & Skill development** Expose students about latest provisions of Income Tax act. |
| 40 | Risk Management in Insurance | COHT610 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development** Gain the knowledge to anticipate, respond and adapt managing risk in Insurance. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|--------------------|--------------------|-----------------------------------------------------------------------|
| 41 | Mixed Insurance | COHT611 | B.Com | 2017-18 | **Employability & Skill development :**Gain the knowledge to anticipate, respond and adapt managining mixedInsurance. |
| 42 | Agricultural & Rural Marketing | COHT612 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development** :Awareness on Agricultural and rural marketing |
| 43 | Warehouse Management | COHT613 | B.Com | 2017-18 | **Employability & Skill development** :Gain the skills required to be a successful warehouse manager |
| 44 | Fundamentals of Accounting-I | COMT11A | B.Com | 2015-16 | **Employability & Skill development :**Familiarize students with Accounting Practices |
| 45 | Business Organisation | COMT12 | B.Com | 2015-16 | **Employability ,Entrepreneurship & Skill development** Knowledge about Business organizations and their Setup |
| 46 | Fundamentals of Accounting-II | COMT21A | B.Com | 2015-16 | **Employability & Skill development :**Familiarize students with Accounting Practices |
| 47 | Business Environment | COMT22A | B.Com | 2015-16 | **Employability & Skill development** :Awareness about the need and importance of business environment |
| 48 | Corporate Accounting | COMT31 | B.Com | 2016-17 | **Employability & Skill development** :Enable students to develop awareness about corporate accounting |
| 49 | Business Statistics | COMT32 | B.Com | 2016-17 | **Employability & Skill development :**Develop skill for applying appropriate statistical tools |
| 50 | Banking Theory and Practice | COMT33 | B.Com | 2016-17 | **Employability & Skill development :**Provide basic knowledge of theory and practices of banking |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 51 | Accounting and Financial Management | COMT35 | B.Com | 2017-18 | **Employability & Skill development :**To understand the ===== accounting and financial framework |
| 52 | Accounting Software-Tally Lab | COMP36 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development** Skill in computerized account keeping |
| 53 | Accounting for Service Organizations | COMT41 | B.Com | 2016-17 | **Employability & Skill development :**Familiarize students with accounting practices prevailing in various institutions |
| 54 | Business Laws | COMT42 | B.Com | 2016-17 | **Employability & Skill development :**Awareness on Contract and LLP Act |
| 55 | Income Tax | COMT43 | B.Com | 2016-17 | **Employability & Skill development :**Expose students about latest provisions of Income Tax act. |
| 56 | Commercial Geography | COMT01 | B.Com | 2016-17 | **Skill development :T**o make the students aware the need of protection and conservation. |
| 57 | Cost Accounting | COMT51 | B.Com | 2017-18 | **Employability & Skill development :**Familiarize the students with cost concepts |
| 58 | Goods and Services Tax | COMT52 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development** Knowledge on Principles and Law relating to Indirect Tax |
| 59 | Taxation | COMT53 | B.Com | 2017-18 | **Employability & Skill development :**Familiarize about the concepts of Taxation |
| 60 | Marketing | COMT61 | B.Com | 2017-18 | **EEmployability ,Entrepreneurship & Skill development** Conceptual awareness on various strategies. |
| 61 | Auditing | COMT62 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development** Familiarize students with the principles and procedure of auditing |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 62 | Management Accounting | COMT63 | B.Com | 2017-18 | **Employability & Skill development** :Enable students to have thorough knowledge on the management accounting techniques in business decision making |
| 63 | Accounting Software-Tally Lab | COMP64 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development** Develop the skills of recording financial transactions |
| 64 | Accounting and Auditing Standards | COMTEL51 | B.Com | 2017-18 | **Employability & Skill development** :Provide understanding about IFRS and tools and techniques |
| 65 | Accounting for Government Entities | COMTEL52 | B.Com | 2017-18 | **Employability & Skill development** :Familiarize students with accounting practices prevailing in various institutions |
| 66 | Commerce Lab | COMPEL53 | B.Com | 2017-18 | **Skill development :**Practical knowledge in forms of organizations |
| 67 | Assessment of Tax: Individual, HUF and partnership | COMTEL54 | B.Com | 2017-18 | **Employability & Skill development :**Familiarize students with the procedure of tax assessment for Individual, HUF, Partnership |
| 68 | Corporate taxation | COMTEL55 | B.Com | 2017-18 | **Employability & Skill development** :Awareness on assessment of companies |
| 69 | Retaling lab | COMPEL56 | B.Com | 2017-18 | **Skill development :**Practical Knowledge on retailing system |
| 70 | Purchase Management | COMTEL57 | B.Com | 2017-18 | **Employability & Skill development :**Build knowledge on Methodologies, principles, and Practices of Purchase Management |
| 71 | Stores Management | COMTEL58 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development** :Build knowledge on Methodologies, Principles, and Practices of good Stores Management |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|---------------------------------------------------------------------------------------------|
| 72 | Taxation lab | COMPEL59 | B.Com | 2017-18 | **Skill development :**Practical knowledge on Filing of ITR's |
| 73 | e-Commerce | COMTEL510 | B.Com | 2017-18 | **Employability ,Entrepreneurship  & Skill development** Awareness on e - Commerce platforms |
| 74 | Business Networks | COMTEL511 | B.Com | 2017-18 | **Employability ,Entrepreneurship  & Skill development** Develop skills necessary to establish and maintain effective work relationships and networks |
| 75 | e-Commerce lab | COMPEL512 | B.Com | 2017-18 | **Employability ,Entrepreneurship  & Skill development** Practical knowledge in e - Commerce platforms |
| 76 | Financial Reporting | COM TEL61 | B.Com | 2017-18 | **Employability  & Skill development :**Familiarize about New Development in Reporting of Financial Statement |
| 77 | Emerging Areas in Accounting | COM TEL62 | B.Com | 2017-18 | **Employability  & Skill development :**Familiarize students with accounting practices prevailing in various institutions |
| 78 | **Project Work:** Working with Insurance | COMPWEL63 | B.Com | 2017-18 | **Employability  & Skill development :**Developing various skills relating to Project preparation and Presentation |
| 79 | Central Excise & Customs | COMTEL64 | B.Com | 2017-18 | **Employability  & Skill development :**Knowledge on Principles and Law relating to central Excise and Customs |
| 80 | Tax Planning and Management | COMTEL65 | B.Com | 2017-18 | **Employability  & Skill development :**Expose students about latest provisions of Income Tax act. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 81 | **Project Work:** Working on Tax Filing Procedures & Documentation with IT Dept/Auditor/Tax Consultant Internship on Tax Planning Practices in Business Units | COMPWEL66 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development** :Developing various skills relating to Project preparation and Presentation |
| 82 | Agricultural & Rural Marketing | COMTEL67 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development** Awareness on Agricultural and rural marketing |
| 83 | Warehouse Management | COMTEL68 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development** Gain the skills required to be a successful warehouse manager |
| 84 | Project Work: Survey on Rural Producers/Retailing Practices (Kirana) Survey on Hawkers/ Working with | COMPWEL69 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development** Developing various skills relating to Project preparation and Presentation |
| 85 | e-Payments System | COMTEL610 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development** Gain the skills required for e payments |
| 86 | Social Media and e-Marketing | COMTEL611 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development** :Provide insight about basis of Social media and e marketing |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 87 | Project Work: Working with Organizations on e-Commerce activities, viz.,Amazon.com., Flipkart, etc. /Online Operations in Banks Working with Organizations on Tele-marketing /e-Shopping Activities | COMPWEL612 | B.Com | 2017-18 | **Employability ,Entrepreneurship & Skill development** Developing various skills relating to Project preparation and Presentation |
| 88 | Project Management | SEC003 | B.Com | 2018-19 | **Skill development :**Awareness on sellection and evaluation of project |
| 89 | Tally (Accounting Software) | SEC004 | B.Com | 2018-19 | **Employability & Skill development :** Gain computerised skills for accounting |
| 90 | Personal Finance | SEC005 | B.Com | 2018-19 | **Skill development :**Awarness on managing personal finance |

**Criterion I - Curricular Aspects**  **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM:** B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) & BCA – Computer Science

**REGULATION - 20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Internship In Computer Science | BCAIAP6 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Students are exposed to pratical knowledge in various IT solutions companies in full stack courses which enabled them to develop their project development skills  and helped them in enhancing their skills as well as improving employability oppirtunities. |
| 2 | Internship in Computer Applications | CABIAP5 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Students are exposed to pratical knowledge in various IT solutions companies in full stack courses which enabled them to develop their project development skills  and helped them in enhancing their skills as well as improving employability oppirtunities. |
| 3 | Internship in Computer Science | CASIAP5 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Students are exposed to pratical knowledge in various IT solutions companies in full stack courses which enabled them to develop their project development skills  and helped them in enhancing their skills as well as improving employability oppirtunities. |
| 4 | Internship In Computer Science | CSCIAP6 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Students are exposed to pratical knowledge in various IT solutions companies in full stack courses which enabled them to develop their project development skills  and helped them in enhancing their skills as well as improving employability oppirtunities. |
| 5 | Internship In Computer Science | CGSIAP6 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Students are exposed to pratical knowledge in various IT solutions companies in full stack courses which enabled them to develop their project development skills  and helped them in enhancing their skills as well as improving employability oppirtunities. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 6 | Big Data Analytics Using R | BCASET01 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understanding R programming concepts for data analysis |
| 7 | Big Data Analytics Using R Lab | BCASEP01 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | skill development byt implementing data processing techniques using R |
| 8 | Data Analysis Using Python | BCASET02 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understanding various data science concepts for analysing data |
| 9 | Data Analysis Using Python Lab | BCASEP02 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | skill development using python for analysing data. |
| 10 | Mobile Application Development | BCASET03 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Its skill and employability course to get knowledge about mobile application development and how to integrate with adroid servicess and components |
| 11 | Mobile Application Development Lab | BCASEP03 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development and employability by developing mobile applications. It can also lead to entrepreneurship |
| 12 | Multimedia Tools And Applications | BCASET04 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in the field of multimedia tools |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 13 | Multimedia Tools And Applications Lab | BCASEP04 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in the field of multimedia tools and applications |
| 14 | Cyber Security And Malware Analysis | BCASET05 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Content Knowledge on Cybersecurity ,Certifications ,Cybersecurity Competitions and Soft Skills |
| 15 | Cyber Security And Malware Analysis Lab | BCASEP05 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development as Cyber Security Analyst |
| 16 | Cyber Laws | BCASET06 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Content Knowledge on Cybersecurity ,Certifications ,Cybersecurity Competitions and Soft Skills |
| 17 | Cyber Laws Lab | BCASEP06 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development as Cyber Security Analyst |
| 18 | Machine Learning Using Python | BCASET07 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development and employability by understanding machine learning techniques using python |
| 19 | Machine Learning Using Python Lab | BCASEP07 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development and employability by implementing machine learning techniques using python |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|---------------------|---------------------|-------------------------------------------------------------------------------------------|
| 20 | Web Application Development Using Django | BCASET08 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development and employability by understanding django architecture and its applications for web development. |
| 21 | Web Application Development Using Django Lab | BCASEP08 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development and employablitiy by implementing web application development using Django |
| 22 | Security Analyst - III | BCASET09 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development and employability by understanding Security analysis, reporting. |
| 23 | Cyber Security, Analysis And Reporting Lab | BCASEP09 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | skill development and employability by implementing ip config, analysing and reporting security related incidents. |
| 24 | Software Testing | BCASET10 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | skill and employability course to Distinguish domains, bugs and discuss various software testing issues |
| 25 | Software Testing Lab | BCASEP10 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development to identify bugs in a software by applying different testing techniques and tools |
| 26 | Digital Imaging | BCASET11 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in developing and managing images |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 27 | Digital Imaging Lab | BCASEP11 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in developing and managing images using GIMP Tool |
| 28 | Computer Networking And Pc Trouble Shooting | BCASET12 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Students are exposed to basics of computer networking along with PC troubleshooting enabling their skill development |
| 29 | Computer Networking And Pc Trouble Shooting Lab | BCASEP12 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development to Students they are exposed to practical knowledge of computer networking and PC trouble shooting |
| 30 | Object Oriented Analysis & Design | BCASET13 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understanding fundamental conepts of OOAD |
| 31 | Object Oriented Analysis & Design  Lab | BCASEP13 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by implementing conepts of OOAD |
| 32 | Design Of Object Oriented Applications | BCASET14 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understanding variety of problem domain and applying OOApplications. |
| 33 | Design Of Object Oriented Applications Lab | BCASEP14 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by implementing OOA for avrious process and AI, data Aquistion. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 34 | E Commerce Application Development | BCASET15 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understanding various Business Model,Electronic Payment System Mode, Developing Static Web pages |
| 35 | E Commerce Application Development Lab | BCASEP15 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understanding various Business Model,Electronic Payment System Mode, Developing Static Web pages |
| 36 | Real Time Governance System (Rtgs) | BCASET16 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understanding e governance concepts, its infrastructure and implementations. |
| 37 | Real Time Governance System (Rtgs) Lab | BCASEP16 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by implementing  e governance concepts, its infrastructure and implementations. |
| 38 | Internet Of Things | BCASET17 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Employability in the Field of  Information  Technology / Hardware Technology |
| 39 | Internet Of Things Lab | BCASEP17 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by providing Hands on Training on the Applications of Internet of Things. |
| 40 | Web Applications Development Using Php& Mysql | BCASET18 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understanding PHP and MySQL concepts |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 41 | Web Applications Development Using Php& Mysql Lab | BCASEP18 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by implementing PHP concepts and binding it with back end MySQL concepts |
| 42 | Information Technology | 22CABT11 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Imparting knowledge in basic IT concepts |
| 43 | E-Commerce And Web Designing | 22CABT24 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Developing skill in E Commerce conceprs and web desinging |
| 44 | Web Designing Lab | 22CABL23 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development and employability by implementing web desinging and its applications. |
| 45 | Programming With C & C++ | CABT31A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understaning C and C++ concepts for problem solving |
| 46 | C And C++ Lab | CABP31A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by implementing C and C++ concepts for problem solving |
| 47 | Database Management Systems | CABT41B | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development  by understanding data base concepts |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|---------------------|---------------------|---------------------------------------------------------------------------------------------|
| 48 | Database Management Systems Lab | CABP41A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by implementing data base concepts |
| 49 | Cyber Security And Malware Analysis | CABSET01 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Content Knowledge on Cybersecurity ,Certifications ,Cybersecurity Competitions and Soft Skills |
| 50 | Cyber Security And Malware Analysis Lab | CABSEP01 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development as Cyber Security Analyst |
| 51 | Multimedia Tools And Applications | CABSET02 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in the field of multimedia tools |
| 52 | Multimedia Tools And Applications Lab | CABSEP02 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in the field of multimedia tools and applications |
| 53 | Big Data Analysis Using R | CABSET03 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | skill development by understanding elements of R programming. |
| 54 | Big Data Analysis Using R Lab | CABSEP03 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | skill development by implementing  elements of R programming. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 55 | Data Science Using Python | CABSET04 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understanding various data science concepts for analysing data |
| 56 | Data Science Using Python Lab | CABSEP04 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | skill development using python for analysing data. |
| 57 | Mobile Application Development | CABSET05 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Its skill and employability course to get knowledge about mobile application development and how to integrate with adroid servicess and components |
| 58 | Mobile Application Development Lab | CABSEP05 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development and employability by developing mobile applications. It can also lead to entrepreneurship |
| 59 | Digital Imaging | CABSET06 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in developing and managing images |
| 60 | Digital Imaging Lab | CABSETP06 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in developing and managing images using GIMP Tool |
| 61 | Big data Analytics using R | CASSET01 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | skill development by understanding elements of R programming. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 62 | Big data Analytics using R Lab | CASSEP01 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | skill development by implementing elements of R programming. |
| 63 | Data Science using Python | CASSET02 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understanding various data science concepts for analysing data |
| 64 | Data Science using Python Lab | CASSEP02 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | skill development using python for analysing data. |
| 65 | Mobile application Development | CASSET03 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Its skill and employability course to get knowledge about mobile application development and how to integrate with adroid servicess and components |
| 66 | Mobile application Development Lab | CASSEP03 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development and employability by developing mobile applications. It can also lead to entrepreneurship |
| 67 | Cyber Security and Malware Analysis | CASSET04 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Content Knowledge on Cybersecurity ,Certifications ,Cybersecurity Competitions and Soft Skills |
| 68 | Cyber Security and Malware Analysis Lab | CASSEP04 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development as Cyber Security Analyst |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 69 | Multimedia Tools and Applications | CASSET05 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in the field of multimedia tools |
| 70 | Multimedia Tools and Applications Lab | CASSEP05 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in the field of multimedia tools and applications |
| 71 | Digital Imaging | CASSET06 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in developing and managing images |
| 72 | Digital Imaging Lab | CASSEP06 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in developing and managing images using GIMP Tool |
| 73 | Problem Solving In C | 22CGST11 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill Development in structured programming |
| 74 | Problem Solving In C Lab | 22CGSL11 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill Development in problem solving by implementing various structured programming concepts. |
| 75 | Operating System | 22CGST12 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Developing skills in OS,Windows and Server OS |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 76 | Operating System Lab | 22CGSL12 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Developing skills in understanding Windows and Server OS,Linux commands |
| 77 | Data Structures | 22CGST21 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in problem solving by implementing data structures |
| 78 | Data Structures Lab | 22CGSL21 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill Development by implementing logics for problem solving |
| 79 | Computer Networks | 22CGST22 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Developing skills in Computer Network concepts |
| 80 | Computer Networks Lab | 22CGSL22 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Implementing Computer Network concepts using CISCO packet tracer. |
| 81 | It Infrastructure Manageme | CGST31 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development of IT Infrastructure and its management |
| 82 | It Infrastructure Manageme | CGSP31 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Developing skills in understanding Windows and Server OS using Hyper V |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 83 | Data Base Mangement Sys | CGST32 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development of Database management. |
| 84 | Data Base Mangement Sys | CGSP32 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Implementing Database concepts using Oracle Data Base |
| 85 | Object Oriented Programm | CGST33 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in problem solving by implementing object oriented concepts |
| 86 | Object Oriented Programm | CGSP33 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Developing skills in programming using Java |
| 87 | Virtualization And Cloud Computing | CGST41 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in Virtulizartion and Cloud Computing |
| 88 | Virtualization And Cloud Computing Lab | CGSP41 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Implementing Virtulizartion, Cloud Computing using AWS. |
| 89 | Process Management | CGST42A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development of PROCESS Process and processs management |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|----------------------|----------------------|---------------------------------------------------------------------------------------------|
| 90 | Python Programming | CGST43 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development of PYTHON Python and pythons programming |
| 91 | Python Programming Lab | CGSP43 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Implementing |
| 92 | Advanced Java | CGST44 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Implementing programming skills on Servelts,JDBC and JSP |
| 93 | Advanced Java Lab | CGSP44 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Implementing programming skills on Servelts,JDBC and JSP |
| 94 | Data Mining And Warehousing | CGST45 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development of DATA Ware and datas housing |
| 95 | Data Mining Lab | CGSP45 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development course to identify what kind of technologies are used for different applications,manipulating data preprocessing, data warehouse and OLAP technology,mining frequent patterns and association classification, clustering. |
| 96 | It Infrastructure Library | CGSSET01 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Developing skills in understanding Industry Infrastructure |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 97 | Client Relationship Management | CGSSET02 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Employability in the Field of IT relationship |
| 98 | Client Relationship Management Lab | CGSSEP02 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Employability in the Field of IT relationship Lab |
| 99 | Mobile Application Development | CGSSET03 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Its skill and employability course to get knowledge about mobile application development and how to integrate with adroid servicess and components |
| 100 | Mobile Application Development Lab | CGSSEP03 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development and employability by developing mobile applications. It can also lead to entrepreneurship |
| 101 | Cyber Security And Malware Analysis | CGSSET04 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Content Knowledge on Cybersecurity ,Certifications ,Cybersecurity Competitions and Soft Skills |
| 102 | Cyber Security And Malware Analysis Lab | CGSSEP04 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in Cyber Security Analyst |
| 103 | Data Science | CGSSET05 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understanding various data science concepts for analysing data |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 104 | Data Science Lab | CGSSEP05 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | skill development by implementing R packages for analysing data. |
| 105 | Python For Datascience | CGSSET06 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understanding various data science concepts for analysing data |
| 106 | Python For Datascience Lab | CGSSEP06 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | skill development using python for analysing data. |
| 107 | Web Interface Designing Technologies | CGSSET07 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understanding web development concepts and web architecture |
| 108 | Web Interface Designing Technologies Lab | CGSSEP07 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development and employability by implementing vrious web technologies for desining web sites. |
| 109 | Web Applications Development Using Php&Mysql | CGSSET08 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understanding PHP and MySQL concepts |
| 110 | Web Applications Development Using Php&Mysql Lab | CGSSEP08 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by implementing PHP concepts and binding it with back end MySQL concepts |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 111 | Introduction To Digital Technology | CGSSET09 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in knowning the Digital requirements. |
| 112 | Introduction To Digital Technology Lab | CGSSEP09 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in creating bots using automation anywhere. |
| 113 | Software Engineering And Testing | CGSSET10 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | skill and employability course to Distinguish domains, bugs and discuss various software testing issues |
| 114 | Software Engineering And Testing Lab | CGSSEP10 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development to identify bugs in a software by applying different testing techniques and tools |
| 115 | Multimedia Tools And Applications | CGSSET11 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in the field of multimedia tools |
| 116 | Multimedia Tools And Applications Lab | CGSSEP11 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in the field of multimedia tools and applications |
| 117 | Digital Imaging | CGSSET12 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in developing and managing images |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 118 | Digital Imaging Lab | CGSSEP12 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in developing and managing images using GIMP Tool |
| 119 | Bigdata Analytics Using R | CGSSET13 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understanding R programming concepts for data analysis |
| 120 | Bigdata Analytics Using R Lab | CGSSEP13 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | skill development byt implementing data processing techniques using R |
| 121 | Data Science Using Python | CGSSET14 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by understanding various data science concepts for analysing data |
| 122 | Data Science Using Python Lab | CGSSEP14 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | skill development using python for analysing data. |
| 123 | Internet Of Things | CGSSET15 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Employability in the Field of Information Technology / Hardware Technology |
| 124 | Internet Of Things Lab | CGSSEP15 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by providing Hands on Training on the Applications of Internet of Things. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 125 | Application Development Using Python | CGSSET16 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by Developing applicaions using python |
| 126 | Application Development Using Python Lab | CGSSEP16 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by implementing Python concepts for applications developmet |
| 127 | It Cognition And Problem Solving | CGSSET17 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development on IT Cognition |
| 128 | Internship In Computer Science | CGSIAP6 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Students are exposed to pratical knowledge in various IT solutions companies in full stack courses which enabled them to develop their project development skills  and helped them in enhancing their skills as well as improving employability oppirtunities. |
| 129 | Problem Solving In C | 22CSCT11 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill Development in basic structured programming concepts for problem solving |
| 130 | Problem Solving In C Lab | 22CSCL11 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by implementing C programming concepts for problem solving. |
| 131 | Data Structures | 22CSCT21 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development for various logical problem solving |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 132 | Data Structures Lab | 22CSCL21 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill Development by implementing logics for problem solving |
| 133 | Problem Solving In C | CSCT11B | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill Development in basic structured programming concepts for problem solving |
| 134 | Problem Solving In C Lab | CSCP11B | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by implementing C programming concepts for problem solving. |
| 135 | Computer Fundamentals A | 22CSCT12 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill Development in implementing various Office Automation Tools |
| 136 | Computer Fundamentals A | 22CSCL12 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill Development in implementing Office Automation Tools for various applications |
| 137 | Programming In C | 22CSCT13 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill Development in basic structured programming concepts for problem solving |
| 138 | Programming In C Lab | 22CSCL13 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by implementing C programming concepts for problem solving. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 139 | Data Structures | 22CSCT22 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development for various logical problem solving |
| 140 | Data Structures Lab | 22CSCL22 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill Development by implementing logics for problem solving |
| 141 | Web Programming | 22CSCT28 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Development of Skills for developing websites |
| 142 | Web Programming  Lab | 22CSCL29 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Development of Skills for developing websites |
| 143 | Database Management Systems | CSCT34B | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in database management |
| 144 | Database Management Systems Lab | CSCP33A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Implementing database management concepts using Oracle |
| 145 | Operating Systems | CSCT41C | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in OS concepts ans system programming |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 146 | Object Oriented Programming Using Java | CSCT01 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in implementing object oriented language cocnepts for problem solving |
| 147 | Operating Systems Lab | CSCP41C | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Implementing Scheduling algorithms and OS concepts |
| 148 | Object Oriented Programming Using Java Lab | CSCP01 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in implementing object oriented language cocnepts for problem solving |
| 149 | Object Oriented Programm | CSCT31 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by implementing OOP cocnepts for problem solving. |
| 150 | Object Oriented Programm | CSCP31 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by implementing OOP cocnepts for problem solving. |
| 151 | Operating Systems | CSCT35 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in OS concepts ans system programming |
| 152 | Operating Systems Lab | CSCP34A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Implementing Scheduling algorithms and OS concepts |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 153 | Computer Networks | CSCT36 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Developing skills in Computer Network concepts |
| 154 | Computer Networks  Lab | CSCP35 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in Network basics and working with database connecivity and frames. |
| 155 | Advanced Java | CSCT42A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development on Servelts,JDBC and JSP |
| 156 | Advanced Java  Lab | CSCP42A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Implementing programming skills on Servelts,JDBC and JSP |
| 157 | Object Oriented Software Engineering | CSCT43B | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development in software engineering based on new technologies |
| 158 | Object Oriented Software Engineering Lab | CSCP43B | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Its a skill development course to get the knowledge about s/w engineering,development,object oriented design and analysis at graduate level. |
| 159 | Python | CSCT45A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development by implementing logics for problem solving using python |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 160 | Python Lab | CSCP44A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | fundamental python programming like variables,coditional logic,looping and functions,list,strings |
| 161 | Data Mining And Ware Housing | CSCT46A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Skill development for datamining techniques |
| 162 | Data Mining Lab | CSCP45 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | The principle algorithms and techniques used in data mining such as clustering,association,classification and prediction |
| 163 | Data Science | CSCSET01 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on Data science Technologies. |
| 164 | Data Science Lab | CSCSEP01 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on Data science Technologies. |
| 165 | Python For Data Science | CSCSET02 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Employability in the Field of Information Technology and imparting Knowledge by providing Hands on Training on Python and Data science Technologies. |
| 166 | Python For Data Science Lab | CSCSEP02 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | fundamental python programming like variables,coditional logic,looping and functions |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 167 | Web Interface Designing Technologies | CSCSET03 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Employability in the Field of Information Technology and imparting knowledge by proving Hands on Training in Web Technologies. |
| 168 | Web Interface Designing Technologies Lab | CSCSEP03 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Employability in the Field of Information Technology and imparting knowledge by proving Hands on Training in Web Technologies. |
| 169 | Web Applications Development Using Php And Mysql | CSCSET04 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Employability in the Field of Information Technology and imparting knowledge by proving Hands on Training in Web Technologies. |
| 170 | Web Applications Development Using Php And Mysql Lab | CSCSEP04 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Employability in the Field of Information Technology and imparting knowledge by proving Hands on Training in Web Technologies. |
| 171 | Internet Of Things | CSCSET05 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Employability in the Field of Information Technology / Hardware Technology and imparting Knowledge by providing Hands on Training on the Applications of Internet of Things. |
| 172 | Internet Of Things Lab | CSCSEP05 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Employability in the Field of Information Technology and imparting knowledge by proving Hands on Training in Web Technologies. |
| 173 | Application Development Using Python | CSCSET06 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Employability and skill development in the Field of Information Technology by imparting Skills in Python Programming |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 174 | Application Development Using Python Lab | CSCSEP06 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2022-23 | Employability and skill development in the Field of Information Technology by imparting Skills in Python Programming |

**Criterion I - Curricular Aspects**          **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM:** B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) & BCA – Computer Science

**REGULATION - 15**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Communication & Soft Skills – I | AEC 003A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-17 | This Course enhances the basic understanding and learning of roots of vocabulary,strategies of effective communication enhancing and focusing on all the facets of LSRW skills. |
| 2 | Computer Fundamentals and office Tools | AEC 004 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-17 | Develops office automation skills in students and enables them to get entry level jobs in organization. This course enables students to commence own data entry centers. |
| 3 | Information & Communication Technology – II | AEC 009A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-18 | Develops skills in handling various social media platforms |
| 4 | MS Office(ICT-I) | AEC 014 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017 - 2018 | Develops office automation skills in students and enables them to get entry level jobs in organization. This course enables students to commence own data entry centers. |
| 5 | Information Security Management (Security Analyst - I) : ICT - 1 | AEC 017 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2019 - 2020 | Develops information security management skills in students by educating them about various security processes. |
| 6 | Information Security Assessments and Audits (Security Analyst 2): ICT- II | AEC 018 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2019 - 2020 | Develops skills in assessing and auditing information security risks and vulnerabilities |
| 7 | Computer Fundamentals & Office Tools | CSCT12A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | Skill Development in Office Automation Tools |
| 8 | Programming Using "C" | CSCT13A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | Skill Development in structured programming |
| 9 | Problem Solving Techniques | CSCT14 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Logical skill development in problem solving |
| 10 | Office Tools Lab | CSCP12A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | Skill Development in Office Automation Tools |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 11 | Programming Using "C" Lab | CSCP13A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | Skill Development in structured programming |
| 12 | Digital Imaging Lab | CSCP14A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | Different Image segmentation |
| 13 | Data Structures | CSCT22A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | Skill development for various logical problem solving |
| 14 | Computer System Architecture | CSCT24 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Development of Skills by understanding underlying architecture of computer system |
| 15 | UNIX | CSCT27 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Skill development by various Unix commands and Logic development using shell script. |
| 16 | Data Structures Lab | CSCP22A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | Skill Development by implementing logics for problem solving |
| 17 | Scribus Lab | CSCP24 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | implementing PDF editor |
| 18 | UNIX Lab | CSCP28 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Skill development by various Unix commands and Logic development using shell script. |
| 19 | Object Oriented Programming using Java | CSCT31 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | implementing OOP concepts |
| 20 | Database Management System | CSCT34A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Database creation & working |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 21 | Operating Systems | CSCT35 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Understanding OS concepts |
| 22 | Object Oriented Programming using Java Lab | CSCP31 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Implementing OOP concepts and designing Java API |
| 23 | Database Management System Lab | CSCP33A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Database creation & working |
| 24 | Operating Systems Lab | CSCP34 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Implementing Scheduling algorithms |
| 25 | Advanced Java | CSCT42A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Network basics and working with database connecivity and frames. |
| 26 | Web Programming | CSCT43A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | web architecture and servers, desiging interactive pages |
| 27 | Python | CSCT45A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2019-2020 | Implementing OOP with Python |
| 28 | Microprocessors | CSCT46 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Understanding how processors work |
| 29 | Advanced Java Lab | CSCP42A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Designing applications for JDBC, Frams, etc |
| 30 | Web Programming Lab | CSCP43A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Desinging dynamic web pages. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 31 | Python Lab | CSCP44A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2019-2020 | implementing Python concepts |
| 32 | Software Engineering | CSC T51 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Understanding software engineering concepts. |
| 33 | Network Security | CSC T57 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | understanding various protocols for network security |
| 34 | Object Oriented Analysis and Design | CSC T58 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Developing and using various desing patterns and diagrams. |
| 35 | Data Mining and Ware Housing | CSC T59 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Understanding ETL Tools |
| 36 | Computer Networks | CSCT511 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Understanding various network protocols |
| 37 | Cyber Forensics | CSCT512 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Underatnding Cyber forensics methods and techniques |
| 38 | Software Testing Methodologies | CSC T510 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Distinguish domains, bugs and discuss various software testing issues |
| 39 | Android Basics | CSCT513 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | mobile application development |
| 40 | Principles of Animation | CSCT514 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | implementing various animation techniques |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 41 | Data Mining Lab | CSC P55 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | implementing ETL tools , cluster analysis |
| 42 | Computer Networks Lab | CSCP511 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | implementing various protocols |
| 43 | Cyber Forensics Lab - I | CSCP512 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | implementing various cyber forensics tools |
| 44 | Testing Tools Lab | CSC P56 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | implementing bug testing using various tools |
| 45 | Android Lab | CSCP13 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | developing mobile applications |
| 46 | Animation Lab | CSCP14 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | developing various animation techniques |
| 47 | Ecommerce | CSCT62A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | understanding various ecommerce strategies |
| 48 | Open Source Software | CSCT64 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | understand open source systems |
| 49 | Cloud Computing | CSCT65A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | understand cloud compting concepts. |
| 50 | Foundation of Data Science(R - Language) | CSCT66 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Applying algorithms for processing data |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 51 | Data Science Lab | CSCP64 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | implementing data processing techniques |
| 52 | Big Data Technology | CSCT67 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Applying big data analytics |
| 53 | Network Programming | CSCT612 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Understanding networkingconcepts |
| 54 | Cyber Laws | CSCT613 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | understanding cyber crimes and cyber laws |
| 55 | Advanced Software Testing | CSCT68 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | applying testing process and continous quality improvement |
| 56 | Advanced Android | CSCT614 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | mobile application development |
| 57 | Design of VideoGames | CSCT615 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Understanding video gamming concepts |
| 58 | Big Data Lab | CSCP65 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | implementing big data analytics |
| 59 | Network Lab | CSCP612 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | implementing netowork concepts. |
| 60 | Cyber Forensics Lab - II | CSCP613 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Implementing tools for cyber forensics |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 61 | Computer Applications-Project Work | CSCPW66 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Desinging an application for any domain |
| 62 | Programming in C | CSCT11A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | Skill Development in structured programming |
| 63 | Programming in C Lab | CSCP11A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | Skill Development in structured programming |
| 64 | Data structures using C | CSCT21A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | Skill development for various logical problem solving |
| 65 | Data structures using C Lab | CSCP21A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | Skill Development by implementing logics for problem solving |
| 66 | Business Analytics using MS Excel Lab | CSC P26 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Implementing various excel functions for business analytics |
| 67 | Data Management with SQL Programming Lab | CSC P27 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Database creation & working |
| 68 | Object Oriented Programming using JAVA | CSCT31 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | implementing OOP concepts |
| 69 | Object Oriented Programming using JAVA Lab | CSCP31 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | Implementing OOP concepts and designing Java API |
| 70 | Python | CSCT41B | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2019-2020 | Implementing OOP with Python |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|---------------------|---------------------|-----------------------------------------------------------------------------------------------|
| 71 | Python Lab | CSCP41B | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2019-2020 | implementing Python concepts |
| 72 | Software Engineering | CSC T51 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Understanding software engineering concepts. |
| 73 | Database Management Systems | CSC T52 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Database creation & working |
| 74 | Software Engineering Lab | CSC P51A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Implemeting various use cases |
| 75 | Database Management Systems Lab | CSC P52 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Database creation & working |
| 76 | Foundation of Data Science | CSCT66 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2019-2020 | Applying algorithms for processing data |
| 77 | Introduction to Machine Learning | CSCT69 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2019-2020 | Understanding machine learning concepts |
| 78 | Introduction to Artificial Intelligence | CSCT612 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2019-2020 | Understanding AI concepts |
| 79 | Data Science Lab | CSCP64 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2019-2020 | implementing data processing techniques |
| 80 | Computer Application - Project Work | CSCPW610 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Developing applications for any domain |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 81 | Relational Data Base Management System | CSCT611 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2019-2020 | Understanding data bases and their working |
| 82 | Operating Systems | CSCTEL61 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Understanding OS concepts |
| 83 | Web Technologies | CSCTEL62 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Understanding web architecutre and web technologies |
| 84 | Computer Networks | CSCTEL63 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Understanding various network protocols |
| 85 | Operating Systems Lab | CSCPEL61 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Implementing Scheduling algorithms |
| 86 | Web Technologies Lab | CSCPEL62 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Desinging dynamic web pages. |
| 87 | Computer Networks Lab | CSCPEL63 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Implementing various network protocols |
| 88 | Fundamentals of Data Science | CSCTCL 61 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Applying algorithms for processing data |
| 89 | Big Data Technology | CSCTCL 62 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Applying big data analytics |
| 90 | Fundamentals of Data Science Lab | CSCPCL61 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Implementing data processing algorithms |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 91 | Big Data Technology Lab | CSCPCL62 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | implementing big data analytics |
| 92 | Cloud Computing | CSCTCL 63 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | understanding cloud concepts and applications |
| 93 | Grid Computing | CSCTCL 64 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | understanding grid computing concepts |
| 94 | Cloud Computing Lab | CSCPCL63 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Implementing cloud applications |
| 95 | Grid Computing Lab | CSCPCL64 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Implementing grid applications |
| 96 | Mobile Computing | CSCTCL 65 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Understanding mobile computing concepts |
| 97 | Mobile Application Development | CSCTCL 66 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | developing mobile applications |
| 98 | Mobile Computing Lab | CSCPCL65 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Implementing mobile computing concepts |
| 99 | Mobile Application Development Lab | CSCPCL66 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | developing mobile applications |
| 100 | Computer Science-Project Work | CSC PWCL63 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | developing an application for any domain |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 101 | OBJECT ORIENTED PROGRAMMING USING JAVA | CSH T31 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | implementing OOP concetps using java |
| 102 | DATABASE MANAGEMENT SYSTEMS | CSH T32 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Database creation & working |
| 103 | OBJECT ORIENTED PROGRAMMING USING JAVA LAB | CSH P31 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Desinging various applications using java API |
| 104 | DATABASE MANAGEMENT SYSTEMS LAB | CSH P32 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Database creation & working |
| 105 | PYTHON | CSHT41A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2019-2020 | Implementing OOP using Python |
| 106 | ADVANCED JAVA | CSHT42 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Network basics and working with database connecivity and frames. |
| 107 | PYTHON LAB | CSHP41A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2019-2020 | implementing Python concepts |
| 108 | ADVANCED JAVALAB | CSHP42 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Designing applications for JDBC, Frams, etc |
| 109 | OPERATING SYSTEMS | CSHT51 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Understanding OS concepts |
| 110 | WEB DESIGING | CSHT52 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Development of Web pages |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|------------------------------------------------------------------------------------------------|
| 111 | COMPUTER NETWORKS | CSHT52A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2020-2021 | Understanding network concept and protocols |
| 112 | SOFTWARE ENGINEERING | CSHT53 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Understanding software engineering concepts. |
| 113 | OPERATING SYSTEMS LAB | CSH P51 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Desinging applications for demonstrating Scheduling techniques |
| 114 | COMPUTER NETWORKS LAB | CSH P52A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2020-2021 | Implementing various network protocols |
| 115 | SOFTWARE TESTING | CSH T61 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Understand various domains, bugs and discuss various software testing issues |
| 116 | FOUNDATION OF DATA SCIENCE | CSH T62 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Applying algorithms for processing data |
| 117 | BIG DATA TECHNOLOGY | CSHT63 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Understanding big data analytics concepts |
| 118 | INFORMATION SECURITY | CSH T64 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Understanding protocols for providing information security |
| 119 | SOFTWARE TESTING LAB | CSH P61 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | implementing bug testing using various tools |
| 120 | DATA SCIENCE LAB | CSH P62 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Implementing algorithms for processing data |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 121 | BIG DATA LAB | CSH P63 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | implementing big data analytics |
| 122 | PROJECT WORK | CSH PW 64 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | developing an application for any domain |
| 123 | BIG DATA TECHNOLOGY | CSHTEL61 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | implementing data analysis |
| 124 | Cyber Crimes and Cyber Security | CSHTEL62 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Understanding cyber crimes and cyber security concepts using case studies |
| 125 | Cloud Computing | CSHTEL63 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | understanding cloud concepts and applications |
| 126 | Artificial Intelligence | CSHTEL64 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Understanding AI concepts |
| 127 | Enterprise Resource Planning | CABT22 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | Centralized Database, Integration and Allocation of resources |
| 128 | Office Automation Tools | CABT23 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | Knowledge on recent trends in IT |
| 129 | Office Automation Tools Lab | CABP22 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2016-2017 | Useful for work environment |
| 130 | Digital Imaging | CABT41A | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Different Image segmentation |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 131 | Digital Imaging Lab | CABP41 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Implementing Image segmentation |
| 132 | E-Commerce | CABT51 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Business Model,Electronic Payment System Mode, Developing Static Web pages |
| 133 | Web Technology | CABT52 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Webpage designing |
| 134 | Programming in C | CABT53 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Structured Programming skills |
| 135 | Web Technology Lab | CABP51 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Webpage designing |
| 136 | Programming in C Lab | CABP52 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2018-2019 | Programming Exercises |
| 137 | Database Management Systems | CABT61 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Database creation & working |
| 138 | PHP and My SQL | CABT62 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Scripting & Dynamic Webpage designing |
| 139 | PHP and My SQL Lab | CABP63 | B.Sc. (CSCS, MSCS, MPCS, CAMS & CAME) , BCA – Computer Science | 2017-2018 | Scripting & Dynamic Webpage Exercises |

**Criterion I - Curricular Aspects**                **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM: B.A. (EMS) – ECONOMICS**

**REGULATION - 20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Micro Economic Analysis | ECOT11B | B.A. (EMS) - Economics | 2020-21 | Skill Development With the help of the skills of microeconomics, the students can get job as project manager in different projects of gvernment and private |
| 2 | Business Economics-I | ECOT12A | B.A. (EMS) - Economics | 2020-21 | Skill Development With the help skills of business economics, students can improve their skills to run businesses |
| 3 | Macro Economic Analysis | ECO T21B | B.A. (EMS) - Economics | 2020-21 | Skill Development With the help of the skills of microeconomics, the students can get job as project manager in different projects of gvernment and private |
| 4 | Business Economics-II | ECOT22A | B.A. (EMS) - Economics | 2020-21 | Skill Development With the help skills of business economics, students can improve their skills to run businesses |
| 5 | Economics Analysis | ECOT18 | B.A. (EMS) - Economics | 2017-18 | Skill Development The knowledge of economic analysis makes the students to become as economic analysts, financial analysts, etc. in the market. |
| 6 | FINANCIAL MARKETS | SDCECOT01 | B.A. (EMS) - Economics | 2021-22 | Skill Development Assignments/Group discussion/Quiz/Model Exam. 2. Demonstration of nursery bed making. 3. Demonstration ofpreparation of media for |
| 7 | Micro Economic Analysis | ECOT11B | B.A. (EMS) - Economics | 2020-21 | Skill Development With the help of the skills of microeconomics, the students can get job as project manager in different projects of gvernment and private |
| 8 | Business Economics-I | ECOT12A | B.A. (EMS) - Economics | 2020-21 | Skill Development With the help skills of business economics, students can improve their skills to run own businesses |
| 9 | Macro Economic Analysis | ECO T21B | B.A. (EMS) - Economics | 2020-21 | Skill Development With the help of the skills of macroeconomics, the students can get job as project manager in different projects of gvernment and private |
| 10 | Business Economics-II | ECOT22A | B.A. (EMS) - Economics | 2020-21 | Skill Development With the help skills of business economics, students can improve their skills to run businesses |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 11 | DEVELOPMENT ECONO | ECOT31B | B.A. (EMS) - Economics | 2020-21 | Skill Development With the help of the knowledge of Development Economics, the students can get employed in government organizations like NNSO,CSO and different |
| 12 | MANAGERIAL ECONOM | ECOT19 | B.A. (EMS) - Economics | 2020-21 | Skill Development The knowledge of managerial economics is helpful o students to get jobs as a managers in different public and private companies |
| 13 | ECONOMIC DEVELOPM | ECOT41B | B.A. (EMS) - Economics | 2020-21 | Skill Development 1. Assignments on specific issues of contemporary importance with reference to problems and remedial policies 2. Student Seminars on leading economic |
| 14 | PUBLIC FINANCE AND I | ECOT02 | B.A. (EMS) - Economics | 2020-21 | Skill Development With the help of the knowledge of public finance, students can get jobs in Tax department and Planning Department, International organizations like |
| 15 | Economics Analysis | ECOT18 | B.A. (EMS) - Economics | 2017-18 | Skill Development The knowledge of economic analysis makes the students to become as economic analysts, financial analysts, etc. in the market. |
| 16 | Financial Markets | SDCECOT01 | B.A. (EMS) - Economics | 2021-22 | Skill Development Assignments/Group discussion/Quiz/Model Exam. 2. Demonstration of nursery bed making. 3. Demonstration ofpreparation of media for |
| 17 | Internship in Economics | ECOIAP5 | B.A. (EMS) - Economics | 2022-23 | Skill Development Students are exposed to pratical knowledge in economics tools which enabled them to develop their project development skills  and helped them |
| 18 | Development Economics | ECOT31B | B.A. (EMS) - Economics | 2022-23 | Skill Development With the help of the knowledge of Development Economics, the students can get employed in government organizations like NNSO,CSO and different |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 19 | Economic Devlopment In Ir | ECOT41B | B.A. (EMS) - Economics | 2022-23 | Skill Development 1. Assignments on specific issues of contemporary importance with reference to problems and remedial policies 2. Student Seminars on leading economic |
| 20 | Public Finance And Interna | ECOT02 | B.A. (EMS) - Economics | 2022-23 | Skill Development With the help of the knowledge of public finance, students can get jobs in Tax department and Planning Department, International organizations like |
| 21 | Rural Entrepreneurship | ECOSET01 | B.A. (EMS) - Economics | 2022-23 | Skill development : Brainstorming Bonanza: Divide students into groups and assign each group a specific rural industry (e.g., organic farming, handcrafted textiles, eco- |
| 22 | Farmer Producer Organizati | ECOSET02 | B.A. (EMS) - Economics | 2022-23 | Skill development :Each group presents their FPO advocacy campaign to the class. After each presentation, facilitate a discussion about the |
| 23 | Urban Entrepreneurship An | ECOSET03 | B.A. (EMS) - Economics | 2022-23 | Skill development  students, provide a list of potential community needs to get them started. You can also offer sample business ideas to guide their brainstorming.students, |
| 24 | Retail And Digital Marketir | ECOSET04 | B.A. (EMS) - Economics | 2022-23 | Skill development  Retail Marketing Strategies (15 minutes):Discuss the importance of in-store marketing for your clothing brand.Brainstorm ideas for creating a visually |
| 25 | Insurance Services | ECOSET05 | B.A. (EMS) - Economics | 2022-23 | Skill development For younger students, simplify the case studies and provide a more limited selection of insurance products to choose from. For older students, introduce |
| 26 | Banking And Financial Ser | ECOSET06 | B.A. (EMS) - Economics | 2022-23 | Skill development students, simplify the budgeting process by providing pre-defined expense categories and income levels.students, introduce investment options (stocks, |
| 27 | Inferential Statistics And Sc | ECOSET07 | B.A. (EMS) - Economics | 2022-23 | Skill development  students, provide a pre-defined research question and a simpler dataset. Guide them step-by-step through the data analysis process in the chosen |
| 28 | Project Designing And Rep | ECOSET08 | B.A. (EMS) - Economics | 2022-23 | Skill development :For students, provide a list of environmental challenges to get them started. You can also offer sample project ideas to spark their creativity. students, |

**Criterion I - Curricular Aspects**                     **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM: B.A. (EMS) – ECONOMICS**

**REGULATION - 15**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Micro Economics - Consumer Behaviour | ECOT11 | B.A. (EMS) - Economics | 2016-17 | Skill Development :With the help of the skills of microeconomics, the students can get job as project manager in different projects of gvernment and private companies. |
| 2 | Business Economics-I | ECOT12A | B.A. (EMS) - Economics | 2016-17 | entreprenership : With the help skills of business economics, students can improve their skills to run businesses |
| 3 | Micro Economics- Production and Price Theory | ECOT21 | B.A. (EMS) - Economics | 2016-17 | Skill Development : With the help of the skills of microeconomics, the students can get job as project manager in different projects of gvernment and private companies. |
| 4 | Business Economics-II | ECOT22A | B.A. (EMS) - Economics | 2016-17 | Entrepreneurship :With the help skills of business economics, students can improve their skills to run businesses |
| 5 | Macro Economics- National Income, Employment and Money | ECOT31A | B.A. (EMS) - Economics | 2019-20 | employability : With the help of the knowledge of macroeconomics, the students can get employed in government organizations like NNSO,CSO and different statistical offices at state level. |
| 6 | Managerial Economics | ECOT01 | B.A. (EMS) - Economics | 2017-18 | The knowledge of managerial economics is helpful o students to get jobs as a managers in different public and private companies |
| 7 | Economics Analysis | ECOT18 | B.A. (EMS) - Economics | 2017-18 | Skill Development : The knowledge of economic analysis makes the students to become as economic analysts, financial analysts, etc. in the market. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 8 | Macro Economics-Banking and International Trade | ECOT41A | B.A. (EMS) - Economics | 2019-20 | employability : With the help of the knowledge of macroeconomics, the students can get a job as financial advisor in governmnet and prvate companies, as a financial expert in a government and private bank and also in stock market. |
| 9 | Economic Development and Indian Economy | ECOT51 | B.A. (EMS) - Economics | 2017-18 | employability :  The knowledge of economic development and indian economy, gives analytical skills, in the theories of economic development, and is also useful to become as an economist. |
| 10 | Indian and Andhra Pradesh Economy | ECOT52 | B.A. (EMS) - Economics | 2017-18 | employability : With the knowledge of Indian and Andhra Pradesh Economy, the students will be employed by UPSC and APPSC, etc. |
| 11 | Financial Markets and Institutions | ECO TEL61 | B.A. (EMS) - Economics | 2017-18 | employability : The knowledge of financial markets helps the student to understand the fiancial system of the country, and also to get jobsin financial institutions |
| 12 | Agricultural Economics | ECO TEL62 | B.A. (EMS) - Economics | 2017-18 | employability : Studying Agricultural Economics helps in landing a job in agriculture and allied activities, ii.e., in the primary sector of the Indian Economy. |
| 13 | 1 and Small Business Development | ECO TEL63 | B.A. (EMS) - Economics | 2017-18 | employability : The knowledge of entrepeneurship and small business development makes the students to establish their own startups. |
| 14 | Agribusiness Environment in Andhra Pradesh | ECO TCL61 | B.A. (EMS) - Economics | 2017-18 | employability : The knowledge of agribusiness in Andhra Pradsh is helpful to students to understand the agribusiness environment and also to get jobs in the agribusiness sector. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 15 | Agricultural Output Marketing | ECO TCL62 | B.A. (EMS) - Economics | 2017-18 | employability : The knowledge of agricultural Output marketings in Andhra Pradsh is helpful to students to understand the agribusiness environment and also to get jobs in the agribusiness sector. |
| 16 | Stock Market Operations | ECO TCL63 | B.A. (EMS) - Economics | 2017-18 | employability : The knowledge of stock market operations, is helpful in venturing intio the stock markets, and being employed by stock brokerage fiems. |
| 17 | Securities Market | ECO TCL64 | B.A. (EMS) - Economics | 2017-18 | employability : The knowledge of securities market operations, is helpful in venturing into the stock markets, and being employed by stock brokerage fiems. |
| 18 | Industrial Economics | ECO TCL65 | B.A. (EMS) - Economics | 2017-18 | employability : Industrial Economics give the skills in Industrial Economics, and also is helpful to get a job in MSME |
| 19 | Labour Economics | ECO TCL66 | B.A. (EMS) - Economics | 2017-18 | employability : Labour Economics is useful to understand the labour problems and to get a job in industries as a labur officer |
| 20 | Economics-Project Wrok | ECOPWCL63 | B.A. (EMS) - Economics | 2017-18 | employability & skill development Project work helps in develping a research aptitude in the student, and would be useful as the first step to become a researcher in economics. |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM: B.Sc. (MECS & CAME) – ELECTRONICS**

**REGULATION - 20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Basic Circuit Theory | ELET11A | B.Sc.(MECS & CAME) - Electronics | 2020-21 | Employability :Circuit theory studies electrical networks, components, and their interconnections mathematically |
| 2 | Circuit Theory Lab | ELEP11A | B.Sc.(MECS & CAME) - Electronics | 2020-21 | Skill development : lab explores practical applications of electrical components and circuits. |
| 3 | Electronic Devices & Circuits | ELET21A | B.Sc.(MECS & CAME) - Electronics | 2020-21 | Employability: Electronic devices and circuits study semiconductor components and their applications in electronics |
| 4 | Electronic Devices & Circuits Lab | ELEP21A | B.Sc.(MECS & CAME) - Electronics | 2020-21 | Skill development : Electronic devices and circuits lab explores hands-on applications of semiconductor devices and circuits. |
| 5 | DIGITAL ELECTRONICS | ELET31 | B.Sc.(MECS & CAME) - Electronics | 2020-21 | Employability:  Digital electronics studies binary signals, logic gates, and digital circuit design principles. |
| 6 | DIGITAL ELECTRONICS LAB | ELEP31 | B.Sc.(MECS & CAME) - Electronics | 2020-21 | Skill development :Digital electronics lab focuses on designing, testing, and analyzing digital circuits and systems. |
| 7 | Analog Circuits And Communications | ELET01 | B.Sc.(MECS & CAME) - Electronics | 2020-21 | Employability :Analog and digital communications involve transmitting and processing continuous and discrete signals. |
| 8 | Analog Circuits And Communications Lab | ELEP01 | B.Sc.(MECS & CAME) - Electronics | 2020-21 | Skill development :Analog and digital communications lab experiments with signal processing and transmission techniques. |
| 9 | Microcontroller And Interfacing | ELET41A | B.Sc.(MECS & CAME) - Electronics | 2020-21 | Employability :Microcontroller and interfacing involves programming and connecting microcontrollers with external devices efficiently |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 10 | Microcontroller And Interfacing Lab | ELEP41A | B.Sc.(MECS & CAME) - Electronics | 2020-21 | Skill development :Microcontroller and interfacing lab focuses on programming and connecting microcontrollers with external components for practical applications. |
| 11 | Internship in Electronics | ELEIAP5 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Skill development:Learn circuits, debug code, design boards, gain skills, valuable experience. |
| 12 | Internship in Electronics | ELEIAP6 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Skill development:Learn circuits, debug code, design boards, gain skills, valuable experience. |
| 13 | ELECTRONIC SYSTEM DESIGN AND MANUFACTURE WITH PCB | SDCELEP01 | B.Sc.(MECS & CAME) - Electronics | 2021-22 | Skill development:Printed circuits link components, facilitate electronic connections, crucial for devices |
| 14 | Microprocessor Systems | ELET31A | B.Sc.(MECS & CAME) - Electronics | 2021-22 | Employability :Microprocessor systems study design, programming, and applications of computer processors in electronics. |
| 15 | Microprocessor Systems Lab | ELEP31A | B.Sc.(MECS & CAME) - Electronics | 2021-22 | Skill development :Microprocessor systems lab explores practical programming and interfacing with computer processors. |
| 16 | Industrial Electronics | ELESET01 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Employbilty:Industrial electronics focuses on control systems and equipment used in industrial settings. |
| 17 | Industrial Electronics Lab | ELESEP01 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Skill development:Industrial electronics lab involves hands-on training with industrial control systems and equipment. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 18 | Electronic Instrumentation | ELESET02 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Employbilty: Electronic instrumentation involves precise measurement and analysis of electrical signals and parameters |
| 19 | Electronic Instrumentation Lab | ELESEP02 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Skill development: Electronic instrumentation lab studies measurement and analysis of electrical signals with precision |
| 20 | Embedded System Design | ELESET03 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Employbilty:Embedded system design integrates hardware and software for specific computing applications |
| 21 | Embedded System Design Lab | ELESEP03 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Skill development:Embedded system design lab focuses on developing and testing embedded hardware-software interfaces |
| 22 | Consumer Electronics | ELESET04 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Employbilty:Consumer electronics encompass devices for personal and household entertainment and productivity needs. |
| 23 | Consumer Electronics Lab | ELESEP04 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Skill development:Consumer electronics lab explores designing, testing, and analyzing devices for consumer applications |
| 24 | Data Communication And Networking | ELESET05 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Employbilty:Data communication and networking involve transmitting and receiving data over interconnected systems efficiently. |
| 25 | Data Communication And Networking Lab | ELESEP05 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Skill development:Data communication and networking lab focuses on configuring and testing network protocols and communication technologies efficiently. |
| 26 | Vlsi Design | ELESET06 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Employbilty:VLSI design involves creating and optimizing integrated circuits for efficient functionality. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|---------------------|---------------------|------------------------------------------------------------------|
| 27 | Vlsi Design Lab | ELESEP06 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Skill development:VLSI design lab focuses on designing and testing integrated circuits effectively |
| 28 | Internet Of Things | ELESET07 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Employbilty:IoT connects devices to exchange data for smart, interconnected functionalities globally. |
| 29 | Internet Of Things Lab | ELESEP07 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Skill development:IoT lab explores designing, testing, and implementing Internet of Things applications effectively |
| 30 | Verilog Hdl With Programming | ELESET08 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Employbilty:Verilog-HDL programming designs and simulates digital circuits for hardware implementation efficiently. |
| 31 | Verilog Hdl With Programming Lab | ELESEP08 | B.Sc.(MECS & CAME) - Electronics | 2022-23 | Skill development:Verilog-HDL programming lab practices designing and testing digital circuits effectively. |

**Criterion I - Curricular Aspects**        **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM: B.Sc. (MECS & CAME) – ELECTRONICS**

**REGULATION - 15**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill |
|---|---|---|---|---|---|
| 1 | Basic Circuit Theory | ELET11A | B.Sc.(MECS & CAME) - Electronics | 2016-17 | Employability :Circuit theory studies electrical networks, components, and their interconnections mathematically |
| 2 | Circuit Theory Lab | ELEP11A | B.Sc.(MECS & CAME) - Electronics | 2016-17 | Skill development : lab explores practical applications of electrical components and circuits. |
| 3 | Electronic Devices & Circuits | ELET21A | B.Sc.(MECS & CAME) - Electronics | 2016-17 | Employability: Electronic devices and circuits study semiconductor components and their applications in electronics |
| 4 | Electronic Devices & Circuits Lab | ELEP21A | B.Sc.(MECS & CAME) - Electronics | 2016-17 | Skill development : Electronic devices and circuits lab explores hands-on applications of semiconductor devices and circuits. |
| 5 | Digital Electronics | ELET31 | B.Sc.(MECS & CAME) - Electronics | 2016-17 | Employability:  Digital electronics studies binary signals, logic gates, and digital circuit design principles. |
| 6 | Digital Electronics Lab | ELEP31 | B.Sc.(MECS & CAME) - Electronics | 2016-17 | Skill development :Digital electronics lab focuses on designing, testing, and analyzing digital circuits and systems. |
| 7 | Analog and Digital IC Application | ELET41 | B.Sc.(MECS & CAME) - Electronics | 2016-17 | Employability : Analog and digital IC application explores integrated circuit design and functionality in practical electronic devices. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill |
|---|---|---|---|---|---|
| 8 | Analog and Digital IC Application Lab | ELEP41 | B.Sc.(MECS & CAME) - Electronics | 2016-17 | Skill development :Analog and digital IC application lab experiments with integrated circuits' practical implementation. |
| 9 | Analog and Digital Communications | ELE T51 | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Employability :Analog and digital communications involve transmitting and processing continuous and discrete signals. |
| 10 | Microprocessor Systems | ELE T52 | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Employability :Microprocessor systems study design, programming, and applications of computer processors in electronics. |
| 11 | Analog and Digital Communications Lab | ELE P51 | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Skill development :Analog and digital communications lab experiments with signal processing and transmission techniques. |
| 12 | Microprocessor Systems Lab | ELE P52 | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Skill development :Microprocessor systems lab explores practical programming and interfacing with computer processors. |
| 13 | Microcontroller and Interfacing | ELETEL61 | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Employability :Microcontroller and interfacing involves programming and connecting microcontrollers with external devices efficiently |
| 14 | Power Electronics | ELETEL62 | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Employability :Power electronics involves converting and controlling electrical power efficiently using semiconductor devices. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill |
|---|---|---|---|---|---|
| 15 | Microcontroller and Interfacing Lab | ELEPEL61 | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Skill development :Microcontroller and interfacing lab focuses on programming and connecting microcontrollers with external components for practical applications. |
| 16 | Power Electronics | ELEPEL62 | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Skill development :Power electronics lab explores designing, testing, and analyzing circuits for efficient power management. |
| 17 | Embedded Systems Design | ELE TCL61A | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Employability :Embedded systems design integrates hardware and software for specialized computing applications efficiently |
| 18 | Electronic Instrumentation | ELE TCL62 | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Employability: Electronic instrumentation involves measuring, recording, and analyzing electrical signals accurately using specialized devices. |
| 19 | Embedded Systems Lab | ELE PCL61A | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Skill development :Embedded systems design lab focuses on developing and testing software-hardware interfaces for practical applications. |
| 20 | Electronic Instrumentation Lab | ELE PCL62 | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Skill development :Electronic instrumentation lab focuses on hands-on practice with measuring and analyzing electrical signals accurately |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill |
|---|---|---|---|---|---|
| 21 | Computer Networks | ELE TCL63 | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Employability :Computer networks involve interconnected devices for communication and resource sharing efficiently |
| 22 | PC maintenance and Trouble shooting | ELE TCL64 | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Employability :PC maintenance and troubleshooting involve diagnosing and fixing hardware and software issues efficiently |
| 23 | Computer Networks Lab | ELE PCL63 | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Skill development : lab involves configuring, testing, and troubleshooting network setups and protocols effectively. |
| 24 | PC maintenance and Trouble shooting  Lab | ELE PCL64 | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Skill development :PC maintenance and troubleshooting lab practices diagnosing and repairing hardware and software issues effectively |
| 25 | Electronics-Project Work | ELE PWCL63 | B.Sc.(MECS & CAME) - Electronics | 2017-18 | Skill development :Electronics project work entails designing, building, and presenting innovative electronic solutions |

**Criterion I - Curricular Aspects**          **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM: ENGLISH**

**REGULATION - 20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | ENGLISH PRAXIS - I | ENGT11B | ENGLISH | 2020-21 | **Employability & Skill Development** :Use grammar effectively in writing and speaking. Demonstrate the use of good vocabulary. Demonstrate an understating of writing skills. Acquire ability to use Soft Skills in professional and daily life. Confidently use the tools of communication skills. Activity conducted: Work Book |
| 2 | ENGLISH PRAXIS - II | ENGT21B | ENGLISH | 2020-21 | This course is enriching the students reading, writing and learning abilities so that they can persue their personal, academic and career goals through the acquisition and improvement of English language skills. Activity conducted: JAM |
| 3 | ENGLISH PRAXIS-III | ENGT01A | ENGLISH | 2020-21 | This course enables the students to learn the art of skill of conversation through speeches, autobiography and interviews of World famous personalities. Activity conducted: Dialogue conversation |
| 4 | BUSINESS ENGLISH-I | ENGT15 | ENGLISH | 2020-21 | This course facilitates the learner to develop its nature, types, barriers to communication, principles of letter writing, quotations, orders and tenders, claim and adjustment letters.Activity conducted:Assignment |
| 5 | BUSINESS ENGLISH-II | ENGT25 | ENGLISH | 2020-21 | This course facilitates the learner to develop the skills in writing sales, circular, credit and collection letters, writing business and technical reports by understanding the basics of struicture and planing of report writing.Activity conducted: Report writing |
| 6 | BUSINESS ENGLISH-III | ENGT02 | ENGLISH | 2020-21 | This course guides the learner in writing inter office memorandum, press release, fax, agenda and minutes, application for jobs, employment interview and group discussions, and preparing the students ready for industry.Activity conducted: workbook |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 7 | BUSINESS ENGLISH-I | ENGT15A | ENGLISH | 2021-22 | This Course enhances the basic understanding and learning of good oral communication to enhance student personalities.In workplace ,softskills are considered to complement their hard skills ,which refer to person's knowledge and occupational skills. Activity conducted: Letter writing |
| 8 | INDIAN CULTURE AND SCIENCE | LSCT16 | ENGLISH | 2020-21 | Assignments, Group discussions, Quiz etc 2. Invited Lecture by a local expert 3. Visit to a scientific institutions, local heritage sites, museums, industries etc Activity conducted: case studies |
| 9 | HUMAN VALUES AND PROFESSIONAL ETHICS | LSCT06 | ENGLISH | 2020-21 | Visit to an Old Age Home and spending with the inmates for a day. 2. Conduct of Group Discussions on the topics related to the syllabus. 3. Participation in community service activities. 4. Working with a NGO like Rotary Club or Lions International, etc. |
| 10 | ENRICHING COMMUNICATION SKILLS | SDCENGT02 | ENGLISH | 2021-22 | Collection of various model business letters 2. Invited lecture/field level training by a local expert 3. Reading of various business reports and minutes and its analysis 4. Presentations of reports, charts etc. 5. Assignments, Group discussion, field visit etc. Activity conducted: Role play |
| 11 | COMMUNICATION SKILLS FOR EMPLOYABILITY-I | SDCENGT04 | ENGLISH | 2021-22 | Understand and produce the leasic grammatical rules and structures of English in advanced level sentences using tenses, articles, prepositions, parts of speech etc. Providing students with vocabulary items like cono cottons, anthonyms, synonyms, one word sustitutes related to specific areas of life.Activity conducted: Grammar practice from online sources. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 12 | COMMUNICATION SKILLS FOR EMPLOYABILITY-II | SDCENGT05 | ENGLISH | 2021-22 | Developing the students' oral expression skills in specific in more sophisticated (situations) communicational situations. Training students to speak on more advanced topics so as to participate in debates, group discussions, interviews and public speaking.Activity conducted: Essay writing |
| 13 | Campus to Corporate Transition | ENGSET01 | ENGLISH | 2022-23 | This course guides the learner in writing inter office memorandum, press release, fax, agenda and minutes, application for jobs, employment interview and group discussions, and preparing the students ready for industry.Activity conducted: seminars |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM: ENGLISH**

**REGULATION - 15**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | English-I | ENGT11A | ENGLISH | 2016-17 | **Employability & Skill development** : It helps students develop critical thinking as well as analytical ability, and makes them Job-ready. Activity conducted: JAM |
| 2 | English-II | ENGT21A | ENGLISH | 2016-17 | This course is enriching the students reading, writying and learning abilities so they can persue their personal, academic and career goals through the acquision and improvement of English language skills. Activity conducted: JAM |
| 3 | Business English-I | ENG T15 | ENGLISH | 2019-20 | This course helps the learner to understand the basics of communication, its nature, types, barriers to communication, principles of letter writing, quotations, orders and tenders, claim and adjustment letters. Activity conducted: Letter Writing |
| 4 | Business English-II | ENG T25 | ENGLISH | 2019-20 | This course facilitates the learner to developthe skills in writing sales, circular, credit and collection letters, writing business and technical reports by understanding the basics of striucture and planing of report writing. Activity conducted: Role Play |
| 5 | English-III | ENGT01 | ENGLISH | 2016-17 | This course guides the learner in writing inter office memorandum, press release, fax, agenda and minutes, application for jobs, employment interview and group discussions, and preparing the students ready for industry. Activity conducted: Book reading |
| 6 | English-III | ENGT02 | ENGLISH | 2019-20 | This course is to focus on enriching higher order skills, such as analytical skills, problem solving, reviewing and critical thinking. Activity conducted: Group Discussion |
| 7 | Communication & Soft Skills – II | AEC 006 | ENGLISH | 2016-17 | This Course enhances the basic understanding and learning of good oral communication,student personalities.In workplace ,softskills are considered to complement their hard skills ,which refer to person's knowledge and occupational skills.Activity Conducted: Preparation to competitive exams |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|---------------------|----------------------|---------------------------------------------------------------------------------------------|
| 8 | Communication & Soft Skills -III | AEC 010 | ENGLISH | 2016-17 | This course enhances the basic understanding and learning of Interpersonal skills,Organizational behaviour,Emotional intelligence and aspects of good Conflict management and occupational strategies etc., Activity conducted: Mock Interviews |
| 9 | Business Communication & Soft Skills – III | AEC 015 | ENGLISH | 2018-19 | This course enhances the basic understanding and learning of Interpersonal skills,Organizational behaviour,Emotional intelligence and aspects of good Conflict management and occupational strategies etc., Activity conducted: Paper presentation |
| 10 | Value Education | AEC 016 | ENGLISH | 2018-19 | This course helps in focusing more on development of sound skills than profound values that can guide how to lead the life of happiness and prosperity by cultivating harmany with one self, family, society and the whole existence. Activity conducted: Peer Learning. |

**Criterion I - Curricular Aspects**     **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM:** B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS

**REGULATION - 20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 1 | Differential Equations | MATT11A | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2020-21 | **Skill development** : It helps to solve problems in real life situations. |
| 2 | Elementary Mathematics | MATT14A | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2017-18 | **Skill development :**Assignment on finding and solving problems with the use of matrices and integration, differentiation. |
| 3 | Numerical Analysis & Special Functions | MATT16 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2020-21 | **Skill development :**Assignment on solving problems of indefinite integrals and numerical methods |
| 4 | Three Dimensional Geometry | MATT21A | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2020-21 | **Skill development :**It develops the skill to solve the problems on planes, lines, spheres, cones and cylinders. |
| 5 | REAL ANALYSIS | MATT21B | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2021-22 | **Skill development** :Seminar on concepts of limits, Continuity, differentiation and mean value theorems. |
| 6 | Mathematics For Data Science | MATT28 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2020-21 | **Skill development :**seminar and different types of graphs and its applications |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 7 | ANALYTICAL SKILLS | LSCT03 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2020-21 | **Skill development :**This course enhances the basic understanding and learning of arithmetic ability,quantative ability,logical reasoning and speed maths etc., .It forms an important part of almost all placements like INFOSYS,WIPRO,TCS,COGNIZANT,HCL,HEXAWARE |
| 8 | QUANTITATIVE APTITUDE | LSCT14 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2020-21 | **Skill development :**This course enhances the basic understanding and learning of arithmetic ability,quantative ability,logical reasoning and speed maths etc., .It forms an important part of almost all placements like INFOSYS,WIPRO,TCS,COGNIZANT,HCL,HEXAWARE |
| 9 | REASONING | LSCT15 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2020-21 | This course enhances the basic understanding and learning of arithmetic ability,quantative ability,logical reasoning and speed maths etc., .It forms an important part of almost all placements like INFOSYS,WIPRO,TCS,COGNIZANT,HCL,HEXAWARE |
| 10 | Mathematical Modeling | AOCT26 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2021-22 | **Skill development :**Modeling change over time or in space using differential equations. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|--------------------|--------------------|--------------------|
| 11 | ABSTRACT ALGEBRA | MATT31 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2021-22 | **Skill development :**Seminar on concepts of limits, Continuity, differentiation and mean value theorems. |
| 12 | Linear Algebra And Numerical Methods | MATT36 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2021-22 | **Skill development :**Seminar on different types of graphs and its applications. |
| 13 | REAL ANALYSIS | MATT01 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2021-22 | **Skill development :**Seminar on concepts of limits, Continuity, differentiation and mean value theorems. |
| 14 | SOLID GEOMETRY | MATT01A | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2021-22 | **Skill development :**Seminar on different types of graphs and its applications. |
| 15 | LINEAR ALGEBRA AND MATRICES | MATT03 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2021-22 | **Skill development** :Seminar on concepts of linear algebra and matrices |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 16 | CALCULUS AND DIFFERENTIAL EQUATIONS | MATT210 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2021-22 | **Skill development :**Seminar on lattices and boolean algebra. |
| 17 | Linear Algebra | MATT41A | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2020-21 | **Skill development :**It helps to develop skills on different applications of matrix theory. |
| 18 | Differential Equations | MATT44A | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2021-22 | **Skill development :**It helps to solve problems in real life situations. |
| 19 | LINEAR ALGEBRA & MATRICES | MATT45 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2021-23 | **Skill development :**Seminar on different types of graphs and its applications. |
| 20 | Numerical Methods | MATSET01 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2022-23 | **Skill development :**Assignment on solving problems and numerical methods |
| 21 | Mathematical Special Functions | MATSET02 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2022-23 | **Skill development :**Assignment on solving problems of indefinite integrals. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 22 | Multiple Integrals And Applications Of Vector Calculus | MATSET03 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2022-23 | **Skill development :**It helps to solve problems in real life situations. |
| 23 | Integral Transforms With Applications | MATSET04 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2022-23 | **Skill development :**Appications to real life problems. |
| 24 | Partial Differential Equations And Fourier Series | MATSET05 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2022-23 | **Skill development :**It develops the skills to solve wave equations and heat equations. |
| 25 | Number Theory | MATSET06 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2022-23 | **Skill development :**Problem solving skill is developed by using number theory. |
| 26 | ELEMENTARY NUMBER THEORY | SDCMATT01 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2021-22 | **Skill development :**Effectively express the concepts and results of Number Theory. construct mathematical proofs of statements and find counterexamples to false statements in Number Theory. collect and use numerical data to form conjectures about the integers. |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM:** B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS

**REGULATION -15**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Analytical Skills | AEC 007 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2016-17 | **Skilldelopment :**This course enhances the basic understanding and learning of arithmetic ability,quantative ability,logical reasoning and speed maths etc., .It forms an important part of almost all placements like INFOSYS,WIPRO,TCS,COGNIZANT,HCL,HEXAWARE etc., |
| 2 | Differential Equations | MATT11A | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2016-17 | **Skilldelopment** : It helps to solve problems in real life situations. |
| 3 | Elementary Mathematics | MATT14A | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2017-18 | **Skilldelopment :**Assignment on finding and solving problems with the use of matrices and integration, differentiation. |
| 4 | Business Mathematics | MATT12A | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2017-18 | **Skilldelopment :**Assignment on finding and solving problems with the use of matrices, progressions, set theory and financial mathematics. |
| 5 | Three Dimensional Geometry | MATT21A | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2016-17 | **Skilldelopment :**It develops the skill to solve the problems on planes, lines, spheres, cones and cylinders. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 6 | Abstract Algebra | MATT26 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2019-20 | **Skilldelopment :**Assignment on abstract concept of groups, subgroups and cyclic, permutation groups |
| 7 | Abstract Algebra | MATT31 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2016-17 | **Skilldelopment :**Assignment on abstract concept of groups, subgroups and cyclic, permutation groups |
| 8 | Discrete Mathematics-I | MATT33 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2015-16 | **Skilldelopment :**Seminar on lattices and boolean algebra. |
| 9 | Real Analysis | MATT41 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2016-17 | **Skilldelopment :**Seminar on concepts of limits, Continuity, differentiation and mean value theorems. |
| 10 | Discrete Mathematics-II | MATT43 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2015-16 | **Skilldelopment :**Seminar on different types of graphs and its applications. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 11 | Ring Theory and Vector Calculus | MATT51 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2017-18 | **Skilldelopment** :Assignment on abstract concept of Rings, subrings and homomorphisms and it develops the skill to solve problems on gauss, green and stokes theorems. |
| 12 | Linear Algebra | MATT52 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2017-18 | **Skilldelopment :**It helps to develop skills on different applications of matrix theory. |
| 13 | Numerical Analysis | MAT TEL61 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2017-18 | **Skilldelopment :**Assignment on solving problems by finite element method. |
| 14 | Number Theory and Partial Differential Equations | MAT TEL62 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2019-2000 | **Skilldelopment :**Problem solving skill is developed by using number theory. |
| 15 | Laplace Transforms and its Applications | MAT TCL61 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2017-18 | **Skilldelopment :**It helps to solve problems in real life situations. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 16 | Fourier Series and Fourier Transforms | MAT TCL62 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2017-18 | **Skilldelopment** :It develops the skills to solve wave equations and heat equations. |
| 17 | Advanced Numerical Analysis | MAT TCL63 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2017-18 | **Skilldelopment** :Assignment on solving problems by finite element method. |
| 18 | Discrete Mathematics | MAT TCL64 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2017-18 | **Skilldelopment :**Appications to real life problems. |
| 19 | Graph Theory | MAT TCL65 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2017-18 | **Skilldelopment :**Seminar and different types of graphs and its applications. |
| 20 | Special Functions | MATTCL66 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2017-18 | **Skilldelopment :**Assignment on solving problems of indefinite integrals. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 21 | Numerical Analysis | MATT62 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2019-2000 | **Skilldelopment** :Assignment on solving problems by finite element method. |
| 22 | Matrix Computation and Discrete Mathematics | MATT63 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2019-2000 | **Skilldelopment :**Appications to real life problems. |
| 23 | Graph Theory | MATT64 | B.Sc. (MPC, MPCS, MECS, MSCS, CAMS & CAME) - MATHEMATICS | 2019-2000 | **Skilldelopment :**Seminar and different types of graphs and its applications. |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM: B.Sc. (MPC & MPCS) - PHYSICS**

**REGULATION -20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|--------------------|--------------------|--------------------------------------------------------------------|
| 1 | Mechanics, waves & Oscillations | PHYT11B | B.Sc. (MPC & MPCS) - Physics | 2020-21 | Emplyability: The fundamental principles of classical mechanics help to develop solid and systematic problems solving skills and to lay the foundation for further studies in Physics |
| 2 | Mechanics, waves & Oscillations Lab | PHYP11B | B.Sc. (MPC & MPCS) - Physics | 2020-21 | Skill Development: Develop experimental methods for characterizing material and component behaviour |
| 3 | Wave Optics | PHYT21B | B.Sc. (MPC & MPCS) - Physics | 2020-21 | Emplyability: By understandingthe nature of light, its propagation and interaction with matter which is essential to constantly emerging newest technologies. |
| 4 | Wave Optics Lab | PHYP21B | B.Sc. (MPC & MPCS) - Physics | 2020-21 | Skill development: Provide hands-on experience in optics |
| 5 | ELECTRICAL APPLIANCES | SDCPHYP01 | B.Sc. (MPC & MPCS) - Physics | 2021-22 | Emplyability & Skill Development: Studying the electrical performance and power consumption of a given number of bulbs connected in series and parallel circuits |
| 6 | Internship in Physics | PHYIAP5 | B.Sc. (MPC & MPCS) - Physics | 2022-23 | Emplyability & Skill development: Students are exposed to pratical knowledge in Physical and electronics tools which enabled them to develop their project development skills and helped them in enhancing their skills as well as improving employability oppirtunities. |
| 7 | Internship in Physics | PHYIAP6 | B.Sc. (MPC & MPCS) - Physics | 2022-23 | Emplyability & Skill development: Students are exposed to pratical knowledge in Physical and electronics tools which enabled them to develop their project development skills and helped them in enhancing their skills as well as improving employability oppirtunities. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 8 | SOLAR ENERGY | SDCPHYP02 | B.Sc. (MPC & MPCS) - Physics | 2021-22 | Emplyability & Skill development: Plot sun chart and locate the sun at your location for a given time of the day. 2. Analyse shadow effect on incident solar radiation and find out contributors. 3. Connect solar panels in series & parallel and measure voltage and current. 4. Measure intensity of solar radiation using Pyranometer and radiometers. 5. Construct a solar lantern using Solar PV panel (15W) 6. Assemble solar cooker 7. Desigining and constructing photovoltaic system for a domestic house requiring 5kVA power 8. Assignments/Model Exam. |
| 9 | Heat And Thermodynamics | PHYT31A | B.Sc. (MPC & MPCS) - Physics | 2021-22 | Empolyability: To understand the nature of light, its propagation and interaction with matter which is essential to constantly emerging newest technologies. |
| 10 | Heat And Thermodynamics Lab | PHYP31A | B.Sc. (MPC & MPCS) - Physics | 2021-22 | Skill development: by understanding the basic properties of matter and it is essential for industrial applications. |
| 11 | Electricity, Magnetism And Electronics | PHYT41A | B.Sc. (MPC & MPCS) - Physics | 2021-22 | Emplyability : Assignments (in writing and doing forms on the aspects of syllabus content and outside the syllabus content. Shall be individual and challenging) □ Student seminars (on topics of the syllabus and related aspects (individual activity)) Quiz (on topics where the content can be compiled by smaller aspects and data (Individuals or groups as teams) |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|---------------------|---------------------|---------------------------------------------------------------------------------------------|
| 12 | Electricity, Magnetism And Electronics lab | PHYP41A | B.Sc. (MPC & MPCS) - Physics | 2021-22 | Skill development: The oral and written examinations (Scheduled and surprise tests), Practical assignments and laboratory reports, Observation of practical skills, Efficient delivery using seminar presentations, Viva voce interviews. |
| 13 | Modern Physics | PHYT01 | B.Sc. (MPC & MPCS) - Physics | 2021-22 | Emplyability: Gain the knowledge of physical concepts and theories of modern physics. |
| 14 | Modern Physics Lab | PHYP01 | B.Sc. (MPC & MPCS) - Physics | 2021-22 | Skill development: demonstrate a working knowledge of physics-related technical and laboratory skills including data analysis. |
| 15 | Applications Of Electricity And Electronics | PHYSET01 | B.Sc. (MPC & MPCS) - Physics | 2022-23 | SKILL Development |
| 16 | Applications Of Electricity And Electronics Lab | PHYSEP01 | B.Sc. (MPC & MPCS) - Physics | 2022-23 | SKILL Development |
| 17 | Electronic Instrumentation | PHYSET02 | B.Sc. (MPC & MPCS) - Physics | 2022-23 | SKILL Development |
| 18 | Electronic Instrumentation Lab | PHYSEP02 | B.Sc. (MPC & MPCS) - Physics | 2022-23 | SKILL Development |
| 19 | Optical Imaging And Photography | PHYSET03 | B.Sc. (MPC & MPCS) - Physics | 2022-23 | SKILL Development |
| 20 | Optical Imaging And Photography Lab | PHYSEP03 | B.Sc. (MPC & MPCS) - Physics | 2022-23 | SKILL Development |
| 21 | Optical Instruments And Optometry | PHYSET04 | B.Sc. (MPC & MPCS) - Physics | 2022-23 | SKILL Development |
| 22 | Optical Instruments And Optometry Lab | PHYSEP04 | B.Sc. (MPC & MPCS) - Physics | 2022-23 | SKILL Development |
| 23 | Low Temperature Physics And Refrigeration | PHYSET05 | B.Sc. (MPC & MPCS) - Physics | 2022-23 | SKILL Development |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 24 | Low Temperature Physics And Refrigeration Lab | PHYSEP05 | B.Sc. (MPC & MPCS) - Physics | 2022-23 | SKILL Development |
| 25 | Solar Energy And Applications | PHYSET06 | B.Sc. (MPC & MPCS) - Physics | 2022-23 | SKILL Development |
| 26 | Solar Energy And Applications Lab | PHYSEP06 | B.Sc. (MPC & MPCS) - Physics | 2022-23 | SKILL Development |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM: B.Sc. (MPC & MPCS) - PHYSICS**

**REGULATION -15**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Mechanics and Properties of Matter | PHYT11A | B.Sc. (MPC & MPCS) - Physics | 2016-17 | Employability: The fundamental principles of classical mechanics help to develop solid and systematic problems solving skills and to lay the foundation for further studies in Physics |
| 2 | Mechanics and Properties of Matter Lab | PHYP11A | B.Sc. (MPC & MPCS) - Physics | 2016-17 | Skill development: Develop experimental methods for characterizing material and component behaviour |
| 3 | Waves and Oscillations | PHYT21A | B.Sc. (MPC & MPCS) - Physics | 2016-17 | Emplyability: Helps to understand the behaviour of oscillating systems ,wave generation and propagation |
| 4 | Waves and Oscillations Lab | PHYP21A | B.Sc. (MPC & MPCS) - Physics | 2016-17 | Skill development:  Use mathematical formulism to become proficient in the solution of analytical and numerical problems in vibratory and wave phenomena |
| 5 | Wave Optics | PHYT31 | B.Sc. (MPC & MPCS) - Physics | 2016-17 | Emplyability: By  understanding the nature of light and its propagation and interaction with matter which is essential to constantly emerging newest technologies. |
| 6 | Wave Optics Lab | PHYP31 | B.Sc. (MPC & MPCS) - Physics | 2016-17 |  Skill development: Provide hands-on experience in optics |
| 7 | Thermodynamics and Radiation Physics | PHYT41 | B.Sc. (MPC & MPCS) - Physics | 2016-17 | Employability: Determine thermodynamic properties of real Substances |
| 11 | Modern Physics Lab | PHY P52 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | Skill development: demonstrate a working knowledge of physics-related technical and laboratory skills including data analysis. |
| 12 | Analog and Digital Electronics | PHY TEL61 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | Employability  ; basics of digital electronics |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 13 | Materials Science | PHY TEL62 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | Employability & Skill development: attaining knowledge of materials and their science & Engineering |
| 14 | Analog and Digital Electronics Lab | PHY PEL61 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | Skill development:To develop skill to build, and troubleshoot digital circuits. |
| 15 | Materials Science Lab | PHY PEL62 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | Skill development: understanding of the scientific method and process. |
| 16 | Introduction to Microprocessors and Microcontrollers | PHY TCL61 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | Employability & Skill development: understand architecture, Programming and system design used in various day to day gadgets |
| 17 | Computational Methods and Programming | PHY TCL62 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | Employability & Skill development: It helps in developing programming skills |
| 18 | Electronic Instrumentation | PHY TCL63 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | Employability & Skill development: understanding about instrumentation concepts which can be applied to Control systems. |
| 19 | Introduction to Microprocessors and Microcontrollers-Lab | PHY PCL61 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | Skill development: It helps in developing programming skills |
| 20 | Computational Methods and Programming-Lab | PHY PCL62 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | Skill development: lab expo |
| 21 | Electronic Instrumentation- Lab | PHY PCL63 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | Skill development: Develop skills to become professional technician with capability to measure electrical parameters using various instruments. |
| 22 | Fundamentals of Nanoscience | PHY TCL64 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | Employability in teaching/Medical Industry/IT and Research |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 23 | Renewable Energy | PHY TCL65 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | Employability & Skill development: Knowledge about the resources of Hydro Energy , Biomass , Geothermal Energy and many more |
| 24 | Computational Methods and Programming | PHY TCL66 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | Skill development: soft ware expo |
| 25 | Fundamentals of Nanoscience Lab | PHY PCL64 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | lab expo |
| 26 | Renewable Energy Lab | PHY PCL65 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | Skill development: As a Skill developer in Plants & analysis of energy |
| 27 | Computational Methods and Programming Lab | PHY PCL66 | B.Sc. (MPC & MPCS) - Physics | 2017-18 | Skill development: Developing skill in physical quantities |

**Criterion I - Curricular Aspects**         **1.1 Curriculum Design & Development**

**1.1.2: The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

**NAME OF THE PROGRAM: B.Sc. (MSCS & CAMS), BA(EMS) - STATISTICS**

**REGULATION - 20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|---------------------|-------------|----------------------|-----------------------|----------------------------------------------------------------------------------------------|
| 1 | Descriptive Statisitcs and Theory of Probability | STAT11B | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2019-20 | Skill development : Descriptive statistics and probability theory are two fundamental concepts that go hand in hand in data analysis. Descriptive statistics provides a way to summarize and organize data, while probability theory helps us understand the likelihood of events occurring. |
| 2 | Descriptive Statistics | STAP11B | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2019-20 | Skill development : Descriptive statistics is a collection of methods to describe the basic features of a data set. It provides ways to condense large amounts of data into summary measures that can be easily interpreted |
| 3 | Descriptive Statistics for Business Analytics | STAT12 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Skill development : Descriptive statistics are the workhorse of business analytics. They provide the initial summary and understanding of your data, allowing you to identify trends, patterns, and potential areas for further analysis. Here's a breakdown of how descriptive statistics are used in business analytics |
| 4 | DESCRIPTIVE MEASURES AND THEORY OF PROBABILITY | STAT14 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Skill development: Descriptive statistics and probability theory are two cornerstones of data analysis, working together to give you a deeper understanding of your data |
| 5 | DESCRIPTIVE MEASURES LAB | STAP14 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Skill development : This is a sample outline for a descriptive measures lab. The specific content and activities will vary depending on your field and the software you'll be using |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 6 | Statistical Methods | STA T21B | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2019-20 | Skill development : Statistical methods are a broad collection of tools and techniques used to collect, analyze, interpret, and draw conclusions from data. They play a vital role in various fields, from science and engineering to business and social sciences. Here's a breakdown of the key concepts and applications of statistical methodsAbility to solve problems on probability distributions |
| 7 | Statistical Methods Lab | STA P21B | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2019-20 | Skill development : Statistical methods are a broad collection of tools and techniques used to collect, analyze, interpret, and draw conclusions from data. They play a vital role in various fields, from science and engineering to business and social sciences. Here's a breakdown of the key concepts and applications of statistical methodsAbility to solve problems on probability distributions |
| 8 | Probability Distributions and Statistical Methods | STAT21C | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2019-20 | Skill development : Probability distributions and statistical methods are two fundamental concepts that go hand in hand when it comes to data analysis. While statistical methods provide the tools to analyze data, probability distributions give us a framework to understand the likelihood of specific outcomes within that data.Ability to solve problems on probability distributions & concepts of  Various Statistical tools |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 9 | Probability Distributions and Statistical Methods Lab | STAP21C | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2019-20 | Skill development : Probability distributions and statistical methods are two fundamental concepts that go hand in hand when it comes to data analysis. While statistical methods provide the tools to analyze data, probability distributions give us a framework to understand the likelihood of specific outcomes within that data.Ability to solve problems on probability distributions & concepts of Various Statistical tools |
| 10 | Quantitative Methods for Managers | STAT22 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Skill development : Quantitative methods equip managers with a powerful toolkit to translate data into actionable insights for better decision-making.  Here's a breakdown of how quantitative methods benefit managers across various areasIt helps to develp the numarical skills of Statistical measures |
| 11 | Statistical Methods and their Applications | STAT23 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2016-17 | Skill development : Statistical methods are a powerful toolbox for anyone who wants to make sense of data. They provide a range of techniques for collecting, analyzing, interpreting, and drawing conclusions from data. These methods are used extensively in various fields, from science and engineering to business and social sciences |
| 12 | Business Statistics | STAT24 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Skill development : Business statistics is the art and science of collecting, analyzing, interpreting, and presenting data to inform business decisions. It's a crucial field in today's data-driven business world, empowering companies to understand their customers, operations, and market performanceIt helps to develp the numarical skills of Statistical measures |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 13 | Probability Distributions and Inferential Statistics for Business Analytics | STAT25A | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Skill development : Probability distributions and inferential statistics are two powerful tools that go hand-in-hand in business analytics. Here's how they work together to unlock valuable insights from data |
| 14 | Statistical Methods and Probability Distributions | STAT27 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Skill development : Statistical methods and probability distributions are the cornerstones of data analysis, working together to give you a deeper understanding of your data. Here's a breakdown of their roles |
| 15 | Data Analysis using SPSS | STAP27 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Skill development : SPSS, standing for Statistical Package for the Social Sciences, is a powerful software program widely used for data analysis. |
| 16 | STATISTICAL METHODS AND PROBABILITY DISTRIBUTIONS | STAT28 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Skill development: Statistical methods and probability distributions are the cornerstones of data analysis, working together to unlock the secrets hidden within your data. Here's a breakdown of their individual roles and how they work in tandem |
| 17 | STATISTICAL DATA ANALYSIS USING SPSS LAB | STAP28 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Skill development : SPSS, standing for Statistical Package for the Social Sciences, is a powerful software program widely used for data analysis. |
| 18 | PROBABILITY DISTRIBUTIONS AND STATISTICAL INFERENCE | STAT31B | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Skill development : Probability distributions and statistical inference are two fundamental concepts that go hand-in-hand in data analysis. While probability distributions describe the likelihood of different outcomes, statistical inference allows you to draw conclusions about a larger population based on a sample |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 19 | STATISTICAL INFERENCE | STAT31C | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Skill development: Statistical inference is a powerful branch of statistics that allows you to draw conclusions about a larger population (all customers) based on a smaller sample (survey group). |
| 20 | Statistical Inference Lab | STAP31C | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Skill development: Statistical inference is a powerful branch of statistics that allows you to draw conclusions about a larger population (all customers) based on a smaller sample (survey group). |
| 21 | Applied Statistics For Business Analytics | STAT34A | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Skill development: Applied statistics for business analytics equips you with the tools and techniques to transform raw data into actionable insights that drive better business decisions. It's the bridge between statistical theory and real-world business problems. |
| 22 | STATISTICAL METHODS FOR COMPUTER APPLICATIONS | STAT35 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Skill development : Statistical methods play a crucial role in various computer applications, from understanding user behavior to developing algorithms that can learn and adapt |
| 23 | PROBABILITY DISTRIBUTIONS AND TESTING OF HYPOTHESIS | STAT36 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Skill development: Probability distributions and hypothesis testing are two essential concepts that go hand-in-hand in statistical analysis. They work together to unlock the secrets hidden within your data, allowing you to make informed decisions based on evidence |
| 24 | INFERENTIAL STATISTICS | STAT37 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Skill development : Inferential statistics is a powerful branch of statistics that allows you to draw conclusions about a larger population (all customers) based on a smaller sample (survey group). It's like making an educated guess about the whole picture from a smaller piece of the puzzle. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 25 | Statistical Data Analysis Using Spss-II | STAP37 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2022-23 | Skill development : SPSS, standing for Statistical Package for the Social Sciences, is a powerful software program widely used for data analysis. |
| 26 | SAMPLING TECHNIQUES AND DESIGN OF EXPERIMENTS | STAT41B | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Empolyability & Skill development : Obtaining reliable data is crucial for any analysis, and sampling techniques and design of experiments (DOE) are the cornerstones of this process. They work together to ensure your data accurately reflects the population you're interested in and that your experiment provides clear, unbiased results |
| 27 | Sampling Techniques And Design Of Experiments Lab | STAP41B | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Empolyability & Skill development : Obtaining reliable data is crucial for any analysis, and sampling techniques and design of experiments (DOE) are the cornerstones of this process. They work together to ensure your data accurately reflects the population you're interested in and that your experiment provides clear, unbiased results |
| 28 | Applied Operations Research | STAT45A | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Empolyability & Skill development : Applied operations research (OR) is all about using analytical methods and mathematical models to solve real-world problems and optimize decision-making processes. It's like having a powerful toolbox filled with quantitative techniques to improve efficiency, reduce costs, and make better choices across various industries. |
| 29 | Applied Statistics | STAT01 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Empolyability & Skill development ; Applied statistics bridges the gap between theoretical statistical concepts and real-world problems. It equips you with the tools and techniques to transform raw data into actionable insights that drive better decision-making across various fields |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 30 | Applied Statistics Lab | STAP01 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Empolyability & Skill development ; Applied statistics bridges the gap between theoretical statistical concepts and real-world problems. It equips you with the tools and techniques to transform raw data into actionable insights that drive better decision-making across various fields |
| 31 | DESCRIPTIVE STATISTICS | SDCSTAT02 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Skill development : Descriptive statistics is a collection of methods to describe the basic features of a data set. It provides ways to condense large amounts of data into summary measures that can be easily interpreted |
| 32 | STATISTICAL DATA ANALYSIS USING SPSS LAB | SDCSTAP01 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2021-22 | Skill development : SPSS, standing for Statistical Package for the Social Sciences, is a powerful software program widely used for data analysis. |
| 33 | Internship in Statistics | STAIP5 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2020-21 | Empolyability & Skill development : I can definitely help you with that! Here's a refined response combining the strengths of previous information and addressing potential shortcomings: |
| 34 | Internship in Statistics | STAIP6 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2020-21 | Empolyability & Skill development : I can definitely help you with that! Here's a refined response combining the strengths of previous information and addressing potential shortcomings: |
| 35 | Operations Research-I | STASET01 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2022-23 | Skill Development Employability : Operations Research (OR) I, often the first course in an OR program, equips you with the fundamental concepts and techniques used to optimize decision-making processes across various industries. Here's a breakdown of what you might encounter in Operations Research-I |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 36 | Statistical Data Analysis Using Spss And Or-I | STASEP01 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2022-23 | Skill development : SPSS, standing for Statistical Package for the Social Sciences, is a powerful software program widely used for data analysis. |
| 37 | Operations Research-Ii | STASET02 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2022-23 | Skill Development Employability : Building upon the foundation of Operations Research (OR) I, Operations Research-II delves deeper into advanced techniques and applications to tackle even more complex decision-making challenges. Here's a glimpse into what you might encounter in this course: |
| 38 | Statistical Data Analysis Using Spss And Or-Ii | STASEP02 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2022-23 | Skill development : SPSS, standing for Statistical Package for the Social Sciences, is a powerful software program widely used for data analysis. |
| 39 | Regression Analysis | STASET03 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2022-23 | Skill Development Employability : Regression analysis is a statistical technique used to model the relationship between a dependent variable (what you're trying to predict) and one or more independent variables (factors you believe influence the dependent variable). It's a cornerstone of data analysis |
| 40 | Data Analysis Using Spss | STASEP03 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2022-23 | Skill development : SPSS, standing for Statistical Package for the Social Sciences, is a powerful software program widely used for data analysis. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------|
| 41 | Multivariate Techniques | STASET04 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2022-23 | Skill Development Employability : Multivariate techniques are a powerful set of statistical methods used to analyze data that contains multiple variables at once. Unlike univariate analysis, which focuses on a single variable, multivariate techniques allow you to explore the relationships and dependencies between these multiple variables. This can provide a much richer and more nuanced understanding of the data you're working with. Here's a breakdown of key concepts and techniques in multivariate analysis |
| 42 | Multivariate Data Analysis Using 'R' | STASEP04 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2022-23 | Skill Development Employability : R, a powerful open-source programming language, is a popular choice for performing multivariate data analysis. Its extensive capabilities and vast collection of packages make it ideal for exploring complex relationships between multiple variables. |
| 43 | Sqc & Reliability | STASET05 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2022-23 | Skill Development Employability : You're absolutely right! SQC (Statistical Quality Control) and Reliability go hand-in-hand in ensuring consistent quality and minimizing the risk of failures in production and service industries. Here's a breakdown of their roles and how they work together: |
| 44 | Sqc & Reliability Lab | STASEP05 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2022-23 | Skill Development Employability : You're absolutely right! SQC (Statistical Quality Control) and Reliability go hand-in-hand in ensuring consistent quality and minimizing the risk of failures in production and service industries. Here's a breakdown of their roles and how they work together: |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|---------------------|-----------------------------------------------------------------------------------------------|
| 45 | Computational Techniques And R Programming | STASET06 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2022-23 | Skill Development Employability : Absolutely! R programming is a powerful tool for implementing various computational techniques in statistical analysis and data science. |
| 46 | Computational Techniques Using Excel & R | STASEP06 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2022-23 | Skill Development Employability : Both Excel and R are valuable tools for performing computational techniques on data, but they excel in different areas. |

**Criterion I - Curricular Aspects**        **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM: B.Sc. (MSCS & CAMS), BA(EMS) - STATISTICS**

**REGULATION -15**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Discriptive Statistics & Probability | STAT11A | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2019-20 | Descriptive statistics involves summarizing and organizing data in a meaningful way. It provides a snapshot of the data, highlighting key characteristics like central tendency (mean, median, mode) and variability (range, variance, standard |
| 2 | Diagrams, graphs,& Descriptive statistics Lab | STAP11A | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2019-20 | Descriptive statistics and probability theory have numerous applications in various fields, including: Business: Analyzing sales data, market trends, and customer behavior. |
| 3 | Descriptive Statistics for Business Analytics | STA T12 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Descriptive statistics can provide valuable insights into business analytics activities that impact employability and entrepreneurship. By analyzing measures such as mean, median, and mode of relevant data, you can identify trends |
| 4 | Random Variable and Discrete Probability Distribution | STAT21A | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2019-20 | Random Variable: A numerical value assigned to each outcome of a random experiment. For example, the number of job offers received by a graduate. Discrete Probability Distribution: A function that assigns probabilities to each |
| 5 | Discrete Probability Distributions: Lab | STAP22A | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2019-20 | Idea generation: Using statistical methods to analyze market trends, customer needs, and technological advancements to identify potential business opportunities. Risk assessment: Quantifying the potential risks and |
| 6 | Quantitative Methods for Managers | STAT22 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Descriptive statistics: Summarizing and describing data sets to understand key characteristics. Inferential statistics: Making inferences about a population based on a sample of data. |
| 7 | Statistical Methods and their Applications | STAT23 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2016-17 | Job Market Analysis: Identify trends in job demand and supply. Analyze salary distributions to assess earning potential. Evaluate the effectiveness of job search strategies. |

346

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 8 | Business Statistics | STAT24 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Market Research: Understanding customer preferences, market trends, and competitor behavior. Financial Analysis: Evaluating financial performance, risk management, and investment decisions. |
| 9 | Inferential Statistics for Business Analytics | STA T25 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Make data-driven decisions: Identify trends, patterns, and relationships in data to inform strategic choices. Improve decision-making: Reduce uncertainty and risk by relying on evidence-based insights. |
| 10 | Statistical Methods & Theory of Estimation | STAT31 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Customer Segmentation: Statistical methods can help you divide your target market into distinct segments based on demographics, preferences, and behaviors, allowing you to tailor your products or services to specific groups. |
| 11 | Statistical Methods Lab | STAP31 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Data Mining Techniques: Explore clustering, association rule mining, and classification algorithms. Machine Learning Models: |
| 12 | Statistical Methods and Theory of Probability | STA T33 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2016-17 | Data Mining: Discover hidden patterns and insights in large datasets. Machine Learning: Develop algorithms to learn from data and make predictions. |
| 13 | Statisticala Data Analysis Using MS EXCEL-I | STA P32 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2016-17 | Job Search: Analyze job market trends to identify in-demand skills. Compare salary data for different industries and job titles. Evaluate the effectiveness of your job search strategies. |
| 14 | Statistical Data Analysis using SPSS Lab | STA P33 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Creating Frequency Tables and Histograms: Visualize the distribution of data to understand its characteristics. Calculating Descriptive Statistics: Calculate measures of central tendency (mean, median, mode) and dispersion |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 15 | Predictive Analytics | STA T34 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | b Market Forecasting:<br><br>Predicting job trends: Identify emerging job roles and skills based on economic indicators, industry trends, and |
| 16 | Statistical Data Analysis using R- Programming Lab | STA P34 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Data Collection: Gather relevant data from various sources, including internal databases, public datasets, and surveys. Data Cleaning and Preparation: Clean and preprocess data to ensure accuracy and consistency. |
| 17 | Testing of Hypothesis | STAT41 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Hypothesis: A strong entrepreneurial mindset, characterized by innovation, risk-taking, and problem-solving, is a predictor of entrepreneurial success. |
| 18 | Parametric & Non- Parametric Tests Lab | STAP41 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Hypothesis: Individuals with a strong digital literacy will have higher job prospects and earning potential.<br><br>Testing: Conduct a survey to compare the employment rates |
| 19 | Statistical techniques for Business Analytics | STAT43 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2015-16 | Hypothesis Testing: Test hypotheses about population parameters based on sample data. Confidence Intervals: Estimate population parameters with a certain degree of confidence.Applications: |
| 20 | Probability Distributions | STAT44 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2016-17 | Probability: The measure of the likelihood of an event occurring. Continuous Distribution: A probability distribution where the random variable can take any value within a specified |
| 21 | Applied Statistics | STA T45 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Statistical Process Control (SPC): Use statistical tools to monitor and control manufacturing processes. Six Sigma: Implement a data-driven approach to improve quality and reduce defects. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 22 | Statisticala Data Analysis Using MS EXCEL-II | STAP42 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2016-17 | Data-Driven Decision Making: The ability to analyze probability distributions and fit curves to data is essential for making informed business decisions based on data. Risk Assessment: Understanding probability distributions |
| 23 | Designs of Sample Surveys | STAT51 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Simple Random Sampling: Every individual in the target population has an equal chance of being selected. Stratified Sampling: The population is divided into subgroups (strata), and a random sample is selected from |
| 24 | Linear Programming Techniques | STAT52 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | To effectively apply linear programming techniques in your career or entrepreneurial endeavors, you'll need to develop the following skills and knowledge: |
| 25 | Designs of Sample Surveys Lab | STAP51 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Demographic information: Age, gender, education level, location Employment status: Currently employed, unemployed, seeking employment |
| 26 | Statistical Data Analysis using SPSS and Operations Research-I | STAP52 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Production Planning: Optimizing resource allocation: Determining the optimal mix of products to maximize profit while minimizing costs. |
| 27 | Statistical Inference | STA T53 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2016-17 | Statistical inference can be employed to analyze activities related to employability and entrepreneurship. Large sample tests are suitable for analyzing data from a large group of individuals, while non-parametric tests are useful when |
| 28 | Statistical Inference Lab | STA P53 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2016-17 | Skill Assessment: Evaluating the effectiveness of training programs by comparing pre- and post-test scores using paired t-tests or Wilcoxon signed-rank tests. Job Satisfaction: Analyzing factors influencing employee |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|-------------------|-------------|---------------------|---------------------|----------------------------------------------------------------------------------------------|
| 29 | Sampling Methods | STAT54 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2019-20 | Evaluating the effectiveness of a job training program: Stratified sampling can be used to ensure that the sample includes individuals from different demographic groups. Assessing the entrepreneurial aspirations of university |
| 30 | Sampling Methods Lab | STAP54 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2019-20 | Drawing names from a hat or using random number generators to select participants from a list of all individuals in the population.Dividing the population into subgroups based on relevant characteristics (e.g., age, gender, industry) |
| 31 | Operations Research | STAT55 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2019-20 | Linear Programming (LPP) Application: Resource allocation, production planning, transportation, portfolio optimization. Transportation Problem |
| 32 | Statistical Data Analysis using SPSS and Operations Research Lab-I | STAP55 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2019-20 | Job Search: Understanding OR can help you stand out in interviews by demonstrating your ability to solve complex problems and make data-driven decisions. Entrepreneurship: OR can be invaluable for optimizing |
| 33 | Applied Operations Research | STA T56 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Job Roles: Operations research analysts, supply chain managers, logistics coordinators, project managers, industrial engineers. Entrepreneurship: |
| 34 | Operations Research | STAT61 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2016-17 | Entrepreneurial Applications: Resource Allocation: Optimizing resource allocation for startups. Supply Chain Optimization: Designing efficient supply chains for new products or services. |
| 35 | Statistical Data Analysis using SPSS and Operations Research-II | STAP61 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2016-17 | Project Management: Creating PERT/CPM networks to plan and schedule projects. Network Design: Designing communication networks (e.g., telecommunications, transportation). |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 36 | Expermental Research Designs | STAT62 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Design an experiment to test the effectiveness of a new fertilizer on crop yield. Analyze a dataset using ANOVA to determine if there are significant differences in customer satisfaction ratings among three different product |
| 37 | Advanced Operations Research Models | STAT63 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Competitive Pricing: Determine optimal pricing strategies for products or services in competitive markets. Negotiation Strategies: Develop effective negotiation tactics for business deals and partnerships. Demand Forecasting: |
| 38 | Actuarial Statistcs | STAT64 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Actuarial statistics play a crucial role in the insurance and finance industries, providing professionals with the tools to analyze risk and make informed decisions. |
| 39 | Expermental Research Designs Lab | STAP62 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Testing Product Efficacy: Use ANOVA to compare the effectiveness of different product prototypes or formulations. Consumer Preference Studies: Design experiments to |
| 40 | Statistical Data Analysis using SPSS and Operations Research Lab-II | STAP63 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Improved Decision-Making: Advanced operations research techniques provide data-driven insights to support informed decision-making. Increased Efficiency: Optimizing operations can lead to |
| 41 | Computations Using R-Programming | STAP64 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | R programming is a powerful tool for data analysis and statistical computing, making it highly relevant for various job sectors |
| 42 | Operations Research | STATEL61 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Linear Programming (LPP) • Application: Resource allocation, production planning, transportation, portfolio optimization, and more. Sequencing and Scheduling |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 43 | Applied Statistics | STATEL62 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Index Numbers<br>1. Inflation Analysis:<br>o Activity: Calculate the Consumer Price Index (CPI) for a specific region or time period using real-world data. |
| 44 | Actuarial Statistics | STATEL63 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | • Use actuarial modeling techniques to determine appropriate premium rates based on risk assessment and expected claim costs<br>• : Create statistical models to quantify the probability and |
| 45 | Statistical Data Analysis using SPSS and OperationsResearch | STAPEL61 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Manufacturing: Production planning, inventory management, quality control<br>Logistics: Transportation, warehousing, distribution<br>Finance: Portfolio optimization, risk management |
| 46 | Applied Statistics | STAPEL62 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Business Planning: Use statistical analysis to forecast demand, identify target markets, and evaluate the financial feasibility of business ventures.<br>Market Research: Analyze consumer behavior, preferences, |
| 47 | Actuarial Statistics | STAPEL63 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Entrepreneurship: These activities are essential for launching a successful insurance business. By conducting thorough market research, developing sound risk models, and ensuring financial feasibility, entrepreneurs can |
| 48 | Hybrid Operations Research Models | STATCL61 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | • Combine linear programming for optimizing transportation costs with simulation for demand forecasting and inventory management.<br>• Integer programming for resource allocation decisions and |
| 49 | Stochastic Operations Research Models | STATCL62 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Determine optimal pricing strategies for products or services in competitive markets.<br>• Analyze the timing and conditions for entering or exiting a market. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 50 | Time Series | STATCL63 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | • Use actuarial modeling techniques to determine appropriate premium rates based on risk assessment and expected claim costs<br>• : Create statistical models to quantify the probability and |
| 51 | Quality & Reliability | STATCL64 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | • Process Mapping: Create visual representations of your processes to identify bottlenecks, inefficiencies, and potential quality issues.<br>• Inspection and Testing: Develop inspection checklists and |
| 52 | Design of experiments | STATCL65 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | • Risk Management: Assess the potential impact of missing data on business decisions and develop contingency plans.<br>• Innovation: Leverage the missing plot technique to identify new opportunities and develop innovative solutions |
| 53 | Statistical Quality Control | STATCL66 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | • Variable Charts<br>• Mean and Range Charts: Monitor the average and variability of a process over time to detect shifts or trends that could indicate quality problems. This can help prevent |
| 54 | Hybrid Operations Research Models Lab | STA PCL61 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | • Develop a project management plan for a software development project, optimizing resource allocation and minimizing project duration.<br>• Develop a customer segmentation model for a marketing |
| 55 | Stochastic Operations Research Models Lab | STA PCL62 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | • Call Routing: Optimize call routing algorithms to minimize wait times and improve customer satisfaction.<br>• Performance Measurement: Track key performance indicators (KPIs) to assess call center efficiency. |
| 56 | Time Series | STA PCL63 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Entrepreneurship: These activities are essential for launching a successful insurance business. By conducting thorough market research, developing sound risk models, and ensuring financial feasibility, entrepreneurs can |

353

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 57 | Quality & Reliability | STA PCL64 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Quality Control in Manufacturing: Implement quality control measures to ensure products meet customer specifications and industry standards. Quality Assurance in Services: Develop quality assurance |
| 58 | Design of experiments | STA PCL65 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Agricultural Research: • Crop Yield Analysis: Evaluate the impact of different fertilizers, irrigation methods, or planting densities on crop yield, even when some experimental plots are lost due to |
| 59 | Statistical Quality Control | STA PCL66 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | Manufacturing: Use SQC to improve product quality, reduce defects, and increase customer satisfaction. Service Industries: Apply SQC principles to monitor service quality, identify areas for improvement, and enhance |
| 60 | Statistics-Project Work | STAPWCL63 | B.Sc.(MSCS & CAMS), BA(EMS) - Statistics | 2017-18 | PROJECT WORK |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM:** B.Sc. (BZC) - ZOOLOGY

**REGULATION - 20**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | AQUARIUM MAINTENANCE AND FISH KEEPING | SDCZOOP01 | B.Sc.(BZC) - Zoology | 2021-22 | Maintenance  Water change duty Algae scraping duty Feeding duty Brine shrimp hatchery duty Filter cleaning and maintenance Monitoring Graphing of water parameters Updated list of inhabitants Record keeping of long-term inhabitants Feeding shows |
| 2 | Animal Diversity - Biology of Non-Chardates | ZOOT11 A | B.Sc.(BZC) - Zoology | 2020-21 | This declaine matters because of the enormous benefits invertibrates such as insects, spiders,crustaceans, slugs and worms bring to our day to day lives. |
| 3 | Animal Diversity - Biology of Non-Chardates Lab | ZOOP11A | B.Sc.(BZC) - Zoology | 2020-21 | An invertebrate refers to any of the animals lacking a vertebral coulmn. The term invertebrate came from the latin. |
| 4 | Animal Diversity- Biology of Chordates | ZOO T21A | B.Sc.(BZC) - Zoology | 2020-21 | As chordates, vertebrates have the same common features a notochord, adorsal hallow nerve cord, pharyngeal slits and post anal tail. |
| 5 | Animal Diversity- Biology of Chordates Lab | ZOO P21A | B.Sc.(BZC) - Zoology | 2020-21 | In addition to the skeletal sysytem, vertebrates have many other complex organ systems including a closed circulatory system. |
| 6 | CELL BIOLOGY, CELLULAR METABOLISM, GENETICS, ORGANIC EVOLUTION AND ANIMAL BEHAVIOUR | ZOOT31A | B.Sc.(BZC) - Zoology | 2020-21 | Genetics can help us to understand why people look the way the do and why some people are more prone to certain diseases than others. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 7 | CELL BIOLOGY, CELLULAR METABOLISM, GENETICS, ORGANIC EVOLUTION AND ANIMAL BEHAVIOUR | ZOOP31A | B.Sc.(BZC) - Zoology | 2020-21 | The biochemical genetic laboratory is concerned with the evaluation and diagnosis of patients and families with inherited metabolic disease. |
| 8 | EMBRYOLOGY, ANIMAL PHYSIOLOGY AND ECOLOGY | ZOOT41 | B.Sc.(BZC) - Zoology | 2020-21 | Embryology is the discipline concerned with the study of embryogenesis. |
| 9 | EMBRYOLOGY, ANIMAL PHYSIOLOGY AND ECOLOGY LAB | ZOOP41 | B.Sc.(BZC) - Zoology | 2020-21 | Who are new to either fertility treatment or egg freezing for fertility preservation. |
| 10 | IMMUNOLOGY AND ANIMAL BIOTECHNOLOGY | ZOOT02 | B.Sc.(BZC) - Zoology | 2020-21 | Organizing awareness on immunization importance in local village in association with NCC and NSS teams ☐ Charts on types of cells and organs of immune system ☐ Student study projects on aspects such as – identification of allergies among students (hypersensitivity), blood groups in the class (antigens and antibodies duly reported) etc., as per the creativity and vision of the lecturer and students |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 11 | IMMUNOLOGY AND ANIMAL BIOTECHNOLOGY LAB | ZOOP02 | B.Sc.(BZC) - Zoology | 2020-21 | Visit to biotechnological laboratory in University or any central/state institutes and create awareness on PCR, DNA finger printing and blot techniques or Visit to a fermentation industry or Visit to a local culture pond and submit report on culture of fishes etc. |
| 12 | Aquarium Fish Keeping And Maintenance Of Aquarium | SDCZOOP01 | B.Sc.(BZC) - Zoology | 2021-22 | maintain quality (appearance, texture, flavor and nutritive value) to protect food safety, and. to reduce losses between harvest and consumption. |
| 13 | Sustainable Aquaculture Management | ZOOSET01 | B.Sc.(BZC) - Zoology | 2022-23 | Sustainable aquaculture focuses on environmental, economic, and social sustainability to improve capacity building and utilize land effectively for the aquaculture sector. |
| 14 | Sustainable Aquaculture Management Lab | ZOOSEP01 | B.Sc.(BZC) - Zoology | 2022-23 | improvement of natural stocks through artificial recruitment and transplantation; production of sport fish |
| 15 | Post-Harvest Technology of Fish And Fisheries | ZOOSET02 | B.Sc.(BZC) - Zoology | 2022-23 | maintain quality (appearance, texture, flavor and nutritive value) to protect food safety, and. to reduce losses between harvest and consumption. |
| 16 | Post-Harvest Technology of Fish And Fisheries Lab | ZOOSEP02 | B.Sc.(BZC) - Zoology | 2022-23 | To provide skill on postharvest loss reduction through processing of fruits and vegetables. To facilitate the students with knowledge and activities of food processing industries and drive towards entrepreneurship |
| 17 | Live Stock Management-I (Biology Of Dairy Animals) | ZOOSET03 | B.Sc.(BZC) - Zoology | 2022-23 | To provide quality breeding services to enhance productivity. Upgradation and conservation of indigenous breeds. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 18 | Live Stock Management-I (Biology Of Dairy Animals) Lab | ZOOSEP03 | B.Sc.(BZC) - Zoology | 2022-23 | Animal husbandry helps in the proper management of animals by providing proper food, shelter and protection against diseases to domestic animals. |
| 19 | Live Stock Management - II (Dairy Production And Management) | ZOOSET04 | B.Sc.(BZC) - Zoology | 2022-23 | good health, comfort and protection from inclement weather and which would enable the animals to utilize their genetic ability and feed for optimal production. |
| 20 | Live Stock Management - II (Dairy Production And Management) Lab | ZOOSEP04 | B.Sc.(BZC) - Zoology | 2022-23 | a fundamental goal that ensures the economic viability of agricultural operations. |
| 21 | Poultry Management- I (Poultry Farming) | ZOOSET05 | B.Sc.(BZC) - Zoology | 2022-23 | The main purpose of Poultry Farming is the production of eggs, meat, etc. Numerous chickens were grown in poultry farms for the production of eggs and meat |
| 22 | Poultry Management- I (Poultry Farming) Lab | ZOOSEP05 | B.Sc.(BZC) - Zoology | 2022-23 | To develop location specific chicken varieties and their dissemination for village poultry. |
| 23 | Poultry Management -II (Poultry Production And Management) | ZOOSET06 | B.Sc.(BZC) - Zoology | 2022-23 | source of income and back yard poultry farming significantly contributes to rural livelihoods. |
| 24 | Poultry Management -II (Poultry Production And Management) Lab | ZOOSEP06 | B.Sc.(BZC) - Zoology | 2022-23 | Conservation, improvement, characterization and application of local native and elite layer and broiler germplasm. |
| 25 | Seri Culture-I (Biology And Cultivation of Mulbery) | ZOOSET07 | B.Sc.(BZC) - Zoology | 2022-23 | improve the quality and quantity production of seed cocoon and reeling cocoons with financial support for construction of rearing house cocooning shed, and rearing equipments. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 26 | Seri Culture-I (Biology And Cultivation of Mulbery) Lab | ZOOSEP07 | B.Sc.(BZC) - Zoology | 2022-23 | Sericulture contributes to the economy by providing employment, promoting silk trade, and supporting agroforestry through mulberry cultivation. |
| 27 | Seri Culture-II (Biology And Cultivation of Mulbery) | ZOOSET08 | B.Sc.(BZC) - Zoology | 2022-23 | Development of Sericulture for sustainable growth and generation of gainful employment. To improve the quality and quantity of production through induction of modern technology in Sericulture. |
| 28 | Seri Culture-II (Biology And Cultivation of Mulbery) Lab | ZOOSEP08 | B.Sc.(BZC) - Zoology | 2022-23 | Silk production through sericulture is an important contributor to sustainable development and rural economies |

**Criterion I - Curricular Aspects**                    **1.1 Curriculum Design & Development**

**1.1.2:** The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

**NAME OF THE PROGRAM:** B.Sc. (BZC) - ZOOLOGY

**REGULATION -15**

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 1 | Biology of Invertebrates Lab | ZOOP11 | B.Sc.(BZC) - Zoology | 2017-18 | **Skill Development:** An invertebrate refers to any of the animals lacking a vertebral coulmn. The term invertebrate came from the latin. |
| 2 | Biology of Chordates Lab | ZOOP21 | B.Sc.(BZC) - Zoology | 2017-18 | Skill Development: In addition to the skeletal sysytem, vertebrates have many other complex organ systems including a closed circulatory system. |
| 3 | Biomolecules, Genetics, Organic Evolution and Animal Behaviour | ZOOT31 | B.Sc.(BZC) - Zoology | 2017-18 | Skill Development: Genetics can help us to understand why people look the way the do and why some people are more prone to certain diseases than others. |
| 4 | Biomolecules, Genetics, Organic Evolution and Animal Behaviour Lab | ZOOP31 | B.Sc.(BZC) - Zoology | 2017-18 | Skill Development: The biochemical genetic laboratory is concerned with the evaluation and diagnosis of patients and families with inherited metabolic disease. |
| 5 | Embryology, Animal Physiology and Ecology | ZOOT41 | B.Sc.(BZC) - Zoology | 2018-19 | Skill Development: Embryology is the discipline concerned with the study of embryogenesis. |
| 6 | Embryology, Animal Physiology and Ecology Lab | ZOOP41 | B.Sc.(BZC) - Zoology | 2018-19 | Skill Development: Who are new to either fertility treatment or egg freezing for fertility preservation. |
| 7 | Animal Biotechnology | ZOOT51A | B.Sc.(BZC) - Zoology | 2017-18 | Skill Development: It has been used to produce genetically modified animals that synthesize therapeutics protiens, have improved growth rates. |
| 8 | Animal Husbandry | ZOOT52 | B.Sc.(BZC) - Zoology | 2017-18 | employability and Entrepreneurship: The fututre growth has to come from employability and Entrepreneurship: improvements in technology and service delivery systems leading to accelerated productivity, processing and marketing. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 9 | Animal Biotechnology Lab | ZOOP51A | B.Sc.(BZC) - Zoology | 2017-18 | Biotechnology uses a variety of techniques are gene cloning and the polymerase chain reaction |
| 10 | Animal Husbandry | ZOOP52 | B.Sc.(BZC) - Zoology | 2017-18 | employability and Entrepreneurship: Animal care technicians are responsible for caring for animals in the clinical or reserch setting. Animal care technicians duty may include maintaining animal records,cleaning cages and other equipment |
| 11 | Immunology | ZOO TEL61 | B.Sc.(BZC) - Zoology | 2018-19 | skill development: Immunology includes all physical, chemical and biological reactions of the organism against the foregin substances. |
| 12 | Cellular metabolism and molecular biology | ZOO TEL62 | B.Sc.(BZC) - Zoology | 2018-19 | skill development: Molecular biology is the field of biology that studies the composition, structure and interactions of cellular molecules. |
| 13 | Immunology Lab | ZOO PEL61 | B.Sc.(BZC) - Zoology | 2018-19 | skill development: The scope of immunology laboratory like generation of antibody, isolation and purification of antibody, immunoblotting and elisa redor. |
| 14 | Cellular metabolism and molecular biology- Lab | ZOO PEL62 | B.Sc.(BZC) - Zoology | 2018-19 | skill development: A molecular biologist needs analytical, communication, problem solving and critical thinking skills. |
| 15 | Principles of Aquaculture | ZOO TCL61 | B.Sc.(BZC) - Zoology | 2018-19 | Entrepreneurship:Successful aquaculture takes into consideration the biology of the aquatic species such as feeding, water flow and temparature needs. |
| 16 | Aquaculture Management | ZOO TCL62 | B.Sc.(BZC) - Zoology | 2018-19 | Entrepreneurship:Aquaculture has significant potential in helping provide a healthy and sustainable protein source for future populations. |
| 17 | Post-Harvest Technology | ZOO TCL63 | B.Sc.(BZC) - Zoology | 2018-19 | Entrepreneurship:The need for proper handling and process of fish is important both for the fishing industry and for the consumers. |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|------|--------------------|-------------|---------------------|----------------------|----------------------------------------------------------------------------------------------|
| 18 | Principles of Aquaculture Lab | ZOO PCL61 | B.Sc.(BZC) - Zoology | 2018-19 | skill development:Fishmeal is a fisheries derived product that is used as a protein source in the diet of farmed animals, including farmed aquatic animals. |
| 19 | Aquaculture Management Lab | ZOO PCL62 | B.Sc.(BZC) - Zoology | 2018-19 | skill development:Freshwater aquaculture is carried out either in fish ponds. Fish pens, fish cages or on a limited scale, in rice paddies. |
| 20 | Post-Harvest Technology Lab | ZOO PCL63 | B.Sc.(BZC) - Zoology | 2018-19 | skill development: Postharvest technology is inter-disciplinary science  and technique applied to agricultureal produce after harvests. |
| 21 | Clinical biochemistry | ZOO TCL64 | B.Sc.(BZC) - Zoology | 2018-19 | Entrepreneurship:Clinical biochemistry is the devision of laboratory medicine that deals with the measurement of chemicals in blood, urine and other body fluids. |
| 22 | Haematology | ZOO TCL65 | B.Sc.(BZC) - Zoology | 2018-19 |  skill development: Hematologists and hematopathologists are highly trained healthcare proveders who specialize in diseases of the blood and blood components |

| S.NO | Name of the Course | Course Code | Name of the Program | Year of Introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|---|---|---|---|---|---|
| 23 | Clinical microbiology | ZOO TCL66 | B.Sc.(BZC) - Zoology | 2018-19 | skill evelopment: In the future, there will be a need for more rapid diagnoses, increased standardization of testing and greater adaptability to cope withnew therets from infectious microorganisms. |
| 24 | Haematology -Lab | ZOO PCL65 | B.Sc.(BZC) - Zoology | 2018-19 | skill development: Haematology tests include laboratory assessments of blood formation and blood disorders. |
| 25 | Clinical microbiology-Lab | ZOO PCL66 | B.Sc.(BZC) - Zoology | 2018-19 | skill development: It is focuses on all aspects of patient infections from testing samples to identifying bacterial, viral,fungal and parasitic agents. |
| 26 | General sericulture, mulberry cultivation and management | ZOO TCL67 | B.Sc.(BZC) - Zoology | 2018-19 | Entrepreneurship: Sericulture provides gainful employment,economic development and improvement in the quality of life to the people in rural areas. |
| 27 | Biology of mulberry silk worm and silkworm rearing technology | ZOO TCL68 | B.Sc.(BZC) - Zoology | 2018-19 | Entrepreneurship:Rearing of silkworm to produce raw silk is called sericulture. In this process, silk worms are rared at appropriated temparature. |
| 28 | Silk technology, silk marketing and extension | ZOO TCL69 | B.Sc.(BZC) - Zoology | 2018-19 | Entrepreneurship: Mulberry currently represents the biggest segment. Despite being the worlds second largest producer of silk, the demand of silk outpaces its supply in india. |
| 29 | General sericulture, mulberry cultivation and management-Lab | ZOO PCL67 | B.Sc.(BZC) - Zoology | 2018-19 | EntrepreneurshipCultivation and harvesting of mulberry plants is called moriculture, mulberry speaces grown in temparate, tropical and subtropical regions. |
| 30 | Silk technology, silk marketing and extension- Lab | ZOO PCL69 | B.Sc.(BZC) - Zoology | 2018-19 | skill development: This lab activity combines silk technology, marketing, and extension to provide a well-rounded learning experience. It's designed to be engaging and informative for students of various age groups. |