



1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms (without repeat count) where the students of the institution have enrolled and successfully completed during the last five years.

SUPPORTING DOCUMENT Response to DVV Observations



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Date: 10/01/2023

From

Department of Computer Science,
P. B. Siddhartha College of Arts and Science
Vijayawada, A. P -520010.

To

The principal,
P. B. Siddhartha College of Arts & Science,
Vijayawada – 10.

Sub: Approval for Value Added Course on **Block Chain Technology** (30 Hours Program) – Reg:

Respected Sir,

I am writing to seek your approval for introducing a **Value-Added Course** on Blockchain Essentials for our students. This program, designed for a duration of 30 hours, aims to equip students with essential digital marketing skills, which are highly relevant in today's competitive job market.

The course will cover key topics such as Introduction to **Blockchain technology**, distributed ledger systems, smart contracts and cryptography, blockchain applications in various domains, hands-on sessions & case studies, career opportunities in blockchain. It will provide hands-on experience through practical sessions and case studies, enhancing students' employability and entrepreneurial skills.

The program will be conducted by qualified faculty members and industry experts, ensuring a comprehensive learning experience for the students. The proposed schedule and syllabus have been reviewed and are aligned with our academic objectives.

The sessions can be scheduled as per the students' academic convenience, either during weekends or after regular class hours.

I extend my full support to the concerned faculty and coordinators for the successful execution of this course. Kindly proceed with the necessary arrangements for enrollment, resource allocation, and scheduling.

I kindly request you to grant approval for this course so that we can initiate the necessary arrangements. I am confident that this initiative will add significant value to our students' learning journey.

Please feel free to reach out for any further clarifications.

Approval by:

Koneru Sudhir,

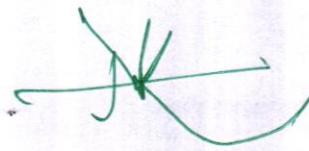
Deputy HOD

Department of Computers,

P. B. Siddhartha College of Arts and Science

To

The Principal
PB Siddhartha College of Arts & Science
Vijayawada-10



Subject: Request for Permission to Introduce a Value-Added Course on Digital Marketing

Respected Sir,

I am writing to seek your approval for introducing a **Value-Added Course on Digital Marketing** for our students. With the increasing importance of digital presence in today's business world, this course will equip students with essential skills in online marketing, social media management, and content marketing.

We look forward to your support and valuable suggestions. Kindly grant us permission to introduce this program for the benefit of our students.

Thank you for your time and consideration.

K.N.Rao
Head, Dept. of Commerce
Yours sincerely,
Kona Narayana Rao
Dy-Head, Department of Commerce
PBS College, Vij-10

Approved

G.Chalaswathi
Academic Officer



Date: 16.09.2023

From

Department of Computer Science,
P. B. Siddhartha College of Arts and Science
Vijayawada, A. P -520010.

To

The principal,
P. B. Siddhartha College of Arts & Science,
Vijayawada – 10.

Sub: Approval for Value Added Course on IBM Data Science Tools (30 Hours Program) – Reg:

Respected Sir,

I am writing to seek your approval for introducing a **Value-Added Course** on IBM: Data Science Tools for our students. This program, designed for a duration of 30 hours, aims to equip students with essential digital marketing skills, which are highly relevant in today's competitive job market.

The course will cover key topics such as Introduction to **IBM: Data Science Tools**, Data handling & programming tools, Python for Data Science, Jupyter note book, Anaconda, Data Visualization & Analytics, Data Visualization Tools, Exploratory Data Analysis (EDA), Introduction to Big Data Tools, Machine Learning & Cloud Platforms, Auto ML & No-Code ML Platforms

It will provide hands-on experience through practical sessions and case studies, enhancing students' employability and entrepreneurial skills.

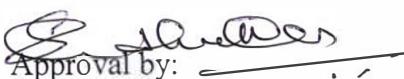
The program will be conducted by qualified faculty members and industry experts, ensuring a comprehensive learning experience for the students. The proposed schedule and syllabus have been reviewed and are aligned with our academic objectives.

The sessions can be scheduled as per the students' academic convenience, either during weekends or after regular class hours.

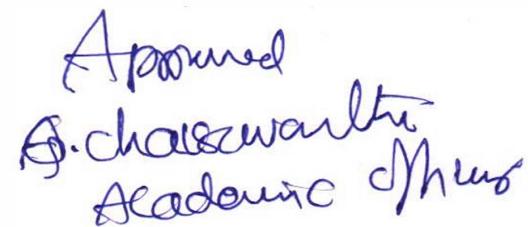
I extend my full support to the concerned faculty and coordinators for the successful execution of this course. Kindly proceed with the necessary arrangements for enrollment, resource allocation, and scheduling.

I kindly request you to grant approval for this course so that we can initiate the necessary arrangements. I am confident that this initiative will add significant value to our students' learning journey.

Please feel free to reach out for any further clarifications.


Approval by: _____

Koneru Sudhir,
Deputy HOD
Department of Computers,
P. B. Siddhartha College of Arts and Science


Approved
A. Chaitanya
Academic Officer

To
The Principal,
(PB Siddhartha College of
Arts & Science
VIJAYAWADA - 520 010.

~~JK~~

Sir,

Sub: Request for Permission to introduce a
Value Added course on 'Principles of Management'

I am writing this letter to seek your approval for introducing a value added course on 'Principles of Management' for students of all disciplines other than Business Administration. This course imparts basic knowledge on Management, to the students which will help them professionally. Hence I request you sir to kindly grant us permission to introduce this course for the benefit of the students.

Thanking you Sir,

Yours sincerely


(K.V. Raventhala)
Dy. HOD - Department of
Business Administration (UG)

Approval


A. Chakravarthi
Academic Officer

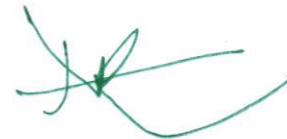
From

Dr. T.S. Krishna,
HoD-Department of Physics,
P.B. Siddhartha College of Arts & Science,
Vijayawada-10.

Vijayawada-10
08-05-2021

To.

The Principal,
P.B. Siddhartha College of Arts & Science,
Vijayawada-10.



Sub: Approval for Value Added Course on Solar Energy and its application (30 Hours Programme)-Reg.

I am writing to seek your approval for introducing a Value-Added Course on Solar Energy and its applications for our students who are admitted in 2022-23. This programme, designed for a duration of 30 hours, aims to equip students with Technical Skills which are highly relevant in today's need of renewable energy.

The course will cover key topics such as renewable energy, efficiency of solar panels, batteries, recent advances in sciences & Technology particularly Solar energy and thin films. It will provide hands on experience through practical sessions and enhancing students' employability and entrepreneurial skills.

The programme will be conducted by qualified faculty members and industry experts, ensuring a comprehensive learning experience for the students. The proposed schedule and syllabus have been reviewed and are aligned with our academic objectives.

The session can be scheduled as per the students 'academic convenience, either during weekends or after regular class hours.

I extend my full support to the concerned faculty and coordinators for the successful execution of this course. Kindly proceed with necessary arrangements for enrollment, resource allocation, and scheduling.

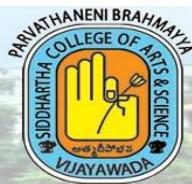
I kindly request you to grant approval for this course so that we can initiate the necessary arrangements. I am confident that this will add significant value to our students learning journey.

Please feel free to reach out for any further clarifications.

Approval By:

M. Palcum
for: Dr. T.S. Krishna,
HoD- Department of Physics,
P.B. Siddhartha College of Arts & Science

Approved
G. Chalaswamy
Academic Officer



Solar Energy and Applications

Course Code: 22PHVAL01

(Value- Added Course offered by the Department of Physics)

Year of offering: 2022-23

Offered to : B.Sc. (M.P.C)

Duration : 45 hours

Semester of offering: Even (IV)

Prerequisites: Basic Knowledge of Physics

Credits: 2(additional)

Course Description

This course gives you an introduction to the fundamentals of solar power as it applies to solar panel system installations. This course introduces the technology that converts solar energy to other energy resources such as electricity, heat and solar fuels with a main focus on electricity generation and explain how solar panels, or photovoltaic (PV). You will be able to identify the key components needed in a basic photovoltaic (solar panel) system, such as is found on a house or building, and explain the function of each component in the system. This course explores the advantages, limitations and challenges of different solar cell technologies, such as crystalline silicon solar cell technology, thin film solar cell technologies and the latest novel solar cell concepts as studied on lab-scale. We will discuss the specifications of solar modules and demonstrate how to design a complete solar system for any particular application.

Course Objectives

1. Introduction to solar energy collectors
2. Introduction to various photovoltaic
3. Knowledge on Photovoltaic
4. Knowledge on conversion of different energies
5. Gain knowledge on applications
6. Able to identify the key components needed in a basic photovoltaic (solar panel) system

Course Outcomes: After completion of this course, the students will know about

1. Energy Scenario, overview of solar energy conversion devices and applications, physics of propagation of solar radiation from the sun to earth
2. Sun-Earth Geometry, Extra-Terrestrial and Terrestrial Radiation, Solar energy measuring instruments
3. Fundamentals of solar PV cells
4. Solar thermal power generation (Solar concentrators).

Mode of Delivery: Face to Face

Is your course Theory/Practical/Both? : Both

Mode of Assessment and Weightage

Multiple Choice Questions : 40 Marks

Course Planner

Dr T S Krishna



P.B. SIDDHARTHA COLLEGE OF ARTS & SCIENCE

Siddhartha Nagar, Vijayawada – 520 010

Autonomous - ISO 9001 - 2015 Certified

TITLE OF THE PAPER: SOLAR ENERGY AND ITS APPLICATIONS

Offered to: B.Sc. (MPC)

Course Type: Core (L) 22PHVAL01

Semester: IV

Credits: 02

Hours Taught: 30 hrs. per Semester

Max.Time: 2 Hours

Course Description

This course gives you an introduction to the fundamentals of solar power as it applies to solar panel system installations. This course introduces the technology that converts solar energy to other energy resources such as electricity, heat and solar fuels with a main focus on electricity generation and explain how solar panels, or photovoltaic (PV). You will be able to identify the key components needed in a basic photovoltaic (solar panel) system, such as is found on a house or building, and explain the function of each component in the system. This course explores the advantages, limitations and challenges of different solar cell technologies, such as crystalline silicon solar cell technology, thin film solar cell technologies and the latest novel solar cell concepts as studied on lab-scale. We will discuss the specifications of solar modules and demonstrate how to design a complete solar system for any particular application

Course Objectives

1. Introduction to solar energy collectors
2. Introduction to various photovoltaics
3. Knowledge on Photovoltaics
4. Knowledge on conversion of different energies
5. Able to identify the key components needed in a basic photovoltaic (solar panel) system

Course Outcomes: After completion of this course, the students will know about

1. Energy Scenario, overview of solar energy conversion devices and applications, physics of propagation of solar radiation from the sun to earth
2. Sun-Earth Geometry, Extra-Terrestrial and Terrestrial Radiation, Solar energy measuring instruments
3. Fundamentals of solar PV cells
4. Solar thermal power generation (Solar concentrators).

List of experiments

1. Performance testing of solar cooker.
2. study of V-I characteristics of solar cell
3. Study the effect of input light intensity on the performance of solar cell.
4. Measurement of efficiency of solar flat plate collector
5. Study on solar photovoltaic panel in series and parallel combination.
6. Performance of solar module under various conditions (dusting)
7. Measurement of emissivity, reflectivity and transitivity
8. Effect of tilt angle on the efficiency of solar cell

Note :

1. 8 (Eight) experiments are to be done and recorded in the lab. These experiments will be evaluated in CIA.
2. For certification minimum of 7 (Seven) experiments must be done and recorded by student who had put in 75 % of attendance in the lab.
3. **Best 6 experiments are to be considered for CIA.**
4. 10 marks for CIA.
5. 40 marks for practical exam.

The marks distribution for the Semester End practical examination is as follows:

Formula/ Principle / Statement with explanation of symbols	05
Diagram/Circuit Diagram / Tabular Columns	05
Setting up of the experiment and taking readings/Observations	10
Calculations (explicitly shown) + Graph + Result with Units	05
Procedure and precautions	05
Viva-voce	05
Record	05
Total Marks:	40

Class : II HPC

Course Code :

22PHVAL01

Class : <u>II</u> HPC			Course Code :												22PHVAL01		
Roll No	Name of the Student	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
201p	D. Durga prasad		8 5	9 5	10 5	11 5	8 6	9 6	10 6	15 6	16 6	17 6	19 6	23 6	24 6	26 6	30 6
202p	K. Pavan Kumar		A	1	2	A	A	3	4	5	6	7	8	A	9	10	A
203p	B. Gowri		A	A	A	A	A	1	2	3	4	5	6	7	8	9	10
204p	S. Madhu Rama Durga		A	A	A	A	1	2	3	4	5	6	7	8	9	10	11
205p	G. Sravani		1	2	3	4	5	6	7	8	9	10	A	11	12	13	14
206p	Sk. Shafiullah		1	2	3	A	4	5	6	7	8	9	10	A	A	11	12
207p	I. Srinivasa Rao		A	1	2	3	4	5	6	7	8	9	10	11	12	13	14
208p	C. Swamy Yoganand		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
209p	B. Chaitanya Naik		A	1	2	3	4	5	6	7	8	9	10	A	11	12	13
210p	N. Mani Sravani		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
211p	P. Vijay Kumar		1	2	3	A	A	4	5	6	7	8	9	10	11	12	13
212p	L. Sai Sekhar		1	2	3	A	4	5	6	7	8	9	10	11	12	13	14
213p	M. Siva Hanikanta		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
214p	T. Hema Sai		1	2	3	4	5	6	7	8	9	10	11	12	13	14	A
215p	H. Amarnadh		1	A	A	A	2	3	4	5	6	7	8	9	10	11	12
216p	R. Chatuvedi		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
217p	B. Pavani		A	A	1	A	2	3	4	5	6	7	8	9	10	11	12
218p	D. Bhavya Chaitanya		1	2	3	4	5	A	A	A	6	7	8	9	10	11	12
219p	B. Baby Renuka		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
220p	Y. Bala Satyanaryana		1	2	3	4	5	6	7	8	9	A	10	11	12	13	14
221p	Sk. Fazal		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
222p	P. Maheswari		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
223p	B. Hemanth Nayak		A	1	2	3	4	5	6	7	8	9	10	11	12	13	14
224p	B. Srinivas		A	A	1	2	3	4	5	6	A	A	7	8	9	10	11
225p	B. Sri Dharani		1	2	3	4	5	6	A	7	8	9	A	10	11	12	13
226p	B. Bhavani Krishna		1	2	3	4	5	6	7	8	9	10	11	A	A	12	13
227p	A. Durga		1	2	3	4	5	6	7	8	9	10	11	12	A	A	13
228p	S. Brahma Reddy		1	2	3	4	5	6	7	8	9	10	11	A	A	12	13
229p	G. Deva Dasu		A	A	1	2	3	4	5	6	7	8	9	10	11	A	A

Title of the Paper: Solar Energy & its Applications. Lab

Class : 1 HPC

Course Code :

QQPHVALQI

Class : II HPC			Course Code : Q2PHVAL01														
Roll No	Name of the Student	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
			8 5	9 5	10 5	11 5	8 6	9 6	10 6	15 6	16 6	17 6	19 6	23 6	24 6	26 6	30 6
211	G. Karthik		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
235P	T. Viswanath Raju		1	2	3	4	5	6	7	8	9	10	11	12	13	A	14
236P	B. prabhu chaitanya		1	2	3	A	4	5	6	7	8	9	10	11	12	13	14
237P	Y. Jhansi Rani		1	2	3	4	5	A	6	7	8	A	9	A	10	11	12
238P	A. Surya prakash Reddy		1	2	3	A	4	5	6	7	8	9	10	11	12	13	14
240P	B. Uttej		1	2	3	4	A	5	6	7	A	8	9	10	11	12	13
241P	N. Midhilesh		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
242P	Sk. Khaja		A	1	2	3	4	5	6	7	8	9	10	11	A	12	13
243P	V. chiru venkat		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
244P	M. praveen Kumar		A	A	A	A	1	2	3	4	5	6	7	8	9	10	11
245P	V. Rakesh Babu		A	1	A	2	3	4	5	6	7	8	9	10	11	12	13
246P	K. Durga prasad		A	A	1	2	3	4	5	6	7	8	9	10	11	A	12
261P	Sk. Ameer Hamza		1	2	3	4	5	6	7	A	8	9	10	A	11	12	13

Title of the Paper : Solar Energy & its applications lab



CIRCULAR

Department of Computer Science P. B. Siddhartha college of Arts and Science

Subject: Announcement of Data Science tools Certificate Course

The Department of Computer Science is pleased to announce a **Certificate Course in Data Science**, designed to equip students with essential skills in data analysis, machine learning, and visualization. This course will be beneficial for students aspiring to build a career in data science and analytics.

Course Details:

- **Course Name:** Data Science Certificate Course
- **Duration:** 30 Hours
- **Offered By:** Department of Computer Science
- **Eligibility:** Open to all interested students
- **Mode of Instruction:** [Offline]
- **Course Content:** Introduction to Data Science, Python for Data Analysis, Machine Learning Basics, Data Visualization, and Case Studies.
- **Certificate:** Upon successful completion of the course, participants will be awarded a certificate by the Department of Computer Science.

Registration Details:

Interested students are requested to register by through Department Office. Limited seats are available, and selection will be on a first-come, first-served basis.

We encourage all interested students to take advantage of this opportunity to enhance their skills in data science.

Head of the Department
Department of Computer Science
P. B. Siddhartha college of Arts and Science

16.09.2023



DATA SCIENCE TOOLS

- Introduction to Data Science and Analytics
- Python and R for Data Science
- Data Visualization Techniques
- Machine Learning Basics
- Industry Applications and Case Studies





Data Science Tools Certificate Course

(Certificate Course offered by the Department of Computer science)

Year of offering : 2022-23

Offered to : Any computer branch

Duration : 30 hours

Duration : 30 hours

Prerequisites : Computer networks & network security

Course Description

This course provides an introduction to essential tools used in data science, focusing on practical applications and hands-on experience. It covers data manipulation, visualization, statistical analysis, and machine learning tools.

Course Objectives

- To introduce key data science tools and environments.
- To develop skills in data handling, cleaning, and visualization.
- To apply machine learning tools for predictive modeling.
- To familiarize students with cloud-based and collaborative data science platforms.

Course Outcomes: After completion of this course, the students will able to

1. Utilize Essential Data Science Tools
2. Perform Data Handling and Preprocessing
3. Visualize and Analyze Data
4. Implement Machine Learning Techniques
5. Work with Big Data and Cloud Platforms

Syllabus

Unit 1: Data Handling & Programming Tools (10 Hours)

- Introduction to Data Science Tools
- Python for Data Science
 - Jupyter Notebook, Anaconda
 - NumPy, Pandas for data manipulation
- R for Data Science
 - RStudio, Tidyverse
 - Data Wrangling with dplyr & ggplot2
- SQL for Data Science
 - Basics of SQL, Queries, Joins, and Aggregations
- Data Cleaning & Preprocessing Techniques

Unit 2: Data Visualization & Analytics (10 Hours)

- Data Visualization Tools
 - Matplotlib, Seaborn (Python)
 - ggplot2, Plotly (R)
 - Tableau and Power BI Basics
- Exploratory Data Analysis (EDA)
 - Descriptive Statistics
 - Handling Missing Data, Outliers, and Feature Engineering
- Introduction to Big Data Tools
 - Apache Hadoop & Spark Basics

- Google Colab for cloud-based data science

Unit 3: Machine Learning & Cloud Platforms (10 Hours)

- **Machine Learning Tools**
 - Scikit-learn (Python)
 - TensorFlow & Keras Basics
- **AutoML & No-Code ML Platforms**
 - Google AutoML, Azure ML, IBM Watson
- **Version Control & Collaboration**
 - Git, GitHub for Data Science
 - Kaggle & Google Colab for collaborative data science projects
- **Cloud Platforms for Data Science**
 - Google Cloud AI, AWS Machine Learning Services

Mode of Delivery: Face to Face

Roll No.	Name of the Student	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
			1/10/10	2/10/10	3/10/10	4/10/10	5/10/10	6/10/10	7/10/10	8/10/10	9/10/10	10/10/10	11/10/10	12/10/10	13/10/10	14/10/10	15/10/10
216101P. N. Paranya		1	2	3	4	A	5	6	7	A	A	8	9	10	11	A	
216102P. A. Karthik		1	2	A	3	4	5	A	6	7	8	A	9	10	11	12	
216103P. S. Murali Krishna		1	2	3	4	5	6	7	8	9	10	11	A	12	13	14	
105P. L. Harish		A	1	2	3	4	A	5	6	7	8	9	10	A	11	12	
105P. G. Sivaganesh		1	2	3	4	A	5	6	7	A	8	9	10	11	A	12	
104P. L. Bindu Swathi		A	1	2	3	A	4	5	C	7	8	9	10	A	11	12	
104P. B. Preem Kumar		1	2	3	4	A	5	6	A	8	9	10	A	11	12	A	
104P. K. Vaishnavi		1	2	3	4	A	5	6	A	7	8	9	10	11	A	12	
104P. Veena Bala Bharath		A	1	2	3	4	5	6	A	7	8	9	10	11	A	12	
111P. Hemugushwita Kamireddy		1	A	2	3	4	A	5	6	A	7	8	A	9	10	11	
112P. V. Sabithi Bhavani		1	2	3	4	A	5	6	7	8	9	10	A	11	12		
114P. N. Pujitha		A	1	2	3	4	5	6	7	8	9	10	11	12	13	A	
114P. B. Bhavya Sru		A	A	1	2	3	4	5	A	6	7	8	9	10	11	A	
115P. T. Mahima Choudhury		1	2	3	4	5	6	A	7	8	9	10	11	12	13	14	
119P. S. Tejaswi		A	1	2	3	4	5	6	A	7	8	9	10	11	12	13	
120P. P. Manohar		1	A	2	3	4	5	A	6	7	8	9	10	A	11	12	
121P. Prathap Singh Mahesh		A	1	2	3	4	5	6	A	7	8	9	A	10	11		
122P. M. Hazini		1	2	A	3	4	5	6	7	A	8	9	10	11	A	12	
123P. P. Prabhath Kumar		1	A	2	3	4	5	A	6	7	8	9	10	11	12	13	
124P. R. Yugesh Chandra		1	2	3	4	5	6	7	A	8	9	10	A	11	12		
125P. T. Nalage Venkata Avanish		1	2	3	A	4	5	6	7	8	A	9	10	11	12	13	
126P. C. Vijaya Lakshmi		A	1	2	3	4	5	6	A	7	8	A	9	10	A	11	
127P. J. Dilip Kumar Nayake		1	2	A	3	4	5	6	7	8	A	9	10	11	12	13	
128P. M. Bindumadhavi		1	A	2	3	4	5	6	7	8	A	9	10	11	12	13	
129P. T. Sugsmitha		A	1	2	A	3	4	5	6	7	8	A	9	10	11		
130P. N. Asmita Sai		1	2	3	4	5	6	7	8	9	A	10	11	12	13	A	
131P. B. Ankushri Vidya		A	1	2	3	4	A	5	6	7	8	9	10	11	A	12	
132P. P. Sandhya		1	2	A	3	4	5	6	7	8	9	A	10	11	12	13	

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 105P. L. Harish
 104P. G. Sivaganesh
 104P. L. Bindu Swathi
 104P. B. Preem Kumar
 104P. K. Vaishnavi
 104P. Veena Bala Bharath
 111P. Hemugushwita Kamireddy
 112P. V. Sabithi Bhavani
 114P. N. Pujitha
 114P. B. Bhavya Sru
 115P. T. Mahima Choudhury
 119P. S. Tejaswi
 120P. P. Manohar
 121P. Prathap Singh Mahesh
 122P. M. Hazini
 123P. P. Prabhath Kumar
 124P. R. Yugesh Chandra
 125P. T. Nalage Venkata Avanish
 126P. C. Vijaya Lakshmi
 127P. J. Dilip Kumar Nayake
 128P. M. Bindumadhavi
 129P. T. Sugsmitha
 130P. N. Asmita Sai
 131P. B. Ankushri Vidya
 132P. P. Sandhya

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 129P. T. Sugsmitha
 130P. N. Asmita Sai
 131P. B. Ankushri Vidya
 132P. P. Sandhya



PARVATHANENI BRAHMAYYA(P.B.)

SIDDHARTHA COLLEGE OF ARTS & SCIENCE

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CIRCULAR

**Department of Computer Science,
P. B. Siddhartha college of Arts and Science.**

Subject: Certificate Course on Blockchain Essentials

The Department of Computer Science is pleased to announce a **Certificate Course on Blockchain Essentials**. This program is designed to provide fundamental knowledge and hands-on experience with blockchain technology, its applications, and its impact on various industries.

Course Details:

- **Course Title:** Blockchain Essentials
- **Duration:** 30 Hours
- **Eligibility:** Open to all interested students and professionals
- **Mode of Delivery:** Offline
- **Course Fee:** 300
- **Start Date:** 20.01.2023
- **End Date:** 04.03.2023

Course Highlights:

- ✓ Introduction to Blockchain Technology
- ✓ Distributed Ledger Systems
- ✓ Smart Contracts and Cryptography
- ✓ Blockchain Applications in Various Domains
- ✓ Hands-on Sessions & Case Studies
- ✓ Career Opportunities in Blockchain

Certification: Participants who successfully complete the course will receive a **Certificate of Completion** from the Department of Computer Science.

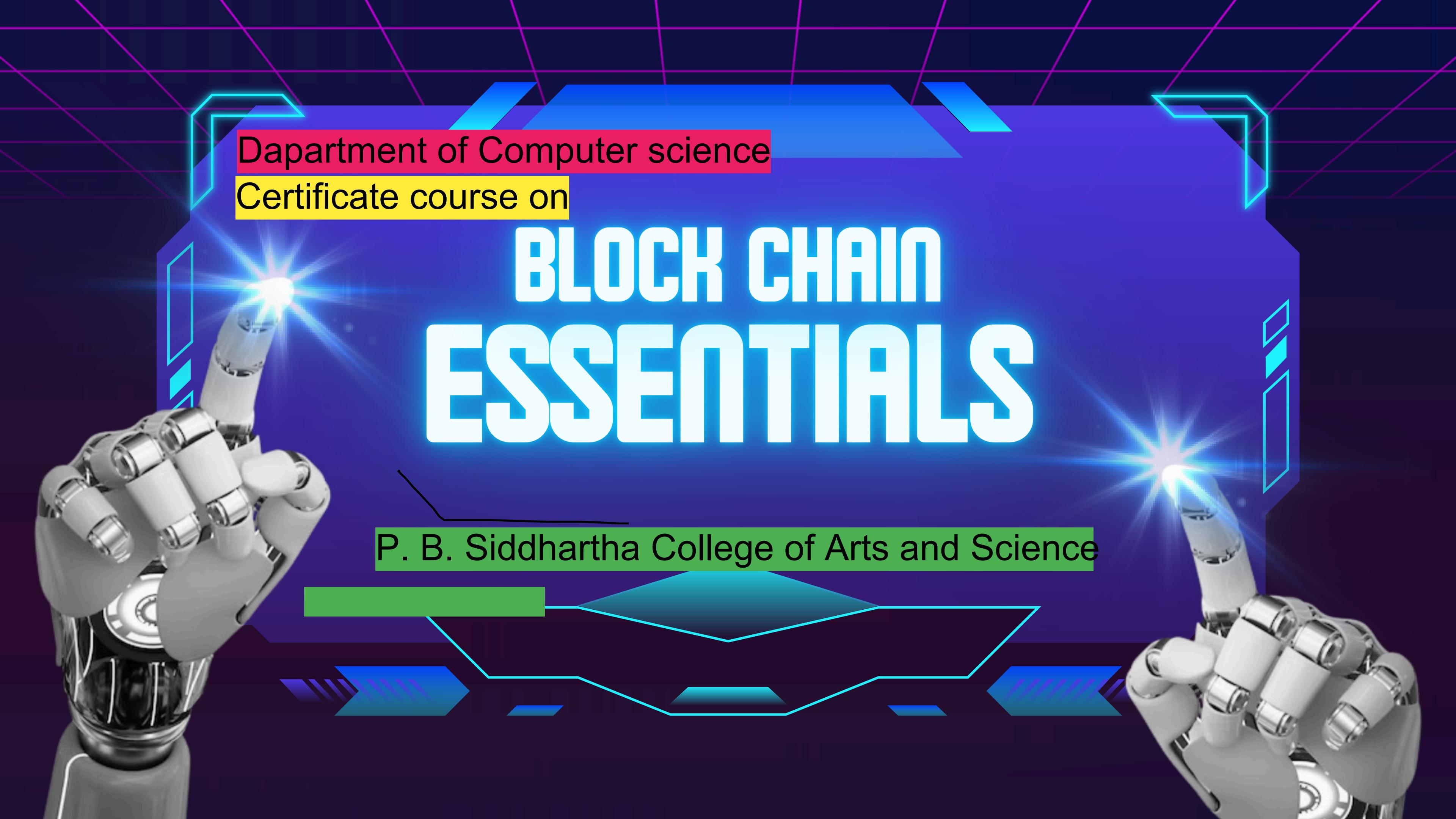
Interested candidates are requested to register by offline through registration.

For further details, please contact **Prem Sai Lakshman**.

Contact number: 7799306115.

We encourage all students and professionals to take advantage of this opportunity to upskill in one of the most in-demand technologies today!

Head of the Department
Department of Computer Science
P. B. Siddhartha college of Arts and Science.



Dapartment of Computer science
Certificate course on

BLOCK CHAIN ESSENTIALS

P. B. Siddhartha College of Arts and Science



Block chain Essentials

(Certificate Course offered by the Department of Computer science)

Year of offering: 2022-23

Offered to : Any computer branch

Duration : 30 hours

Prerequisites : Computer networks & network security

Course Description

The **Blockchain Essentials** course provides a **comprehensive introduction** to blockchain technology, covering its **fundamental principles, architecture, and real-world applications**. This course explores the decentralized nature of blockchain, cryptographic security, consensus mechanisms, and smart contracts, helping students understand how blockchain is transforming various industries.

Course Objectives

1. Introduce Blockchain Fundamentals
2. Explore Blockchain Architecture and Consensus Mechanisms
3. Understand Blockchain Platforms and Smart Contracts
4. Examine Real-World Blockchain Applications

Identify Blockchain Challenges and Future Trends

Course Outcomes: Upon successful completion of this course, students will be able to:

Understand the Fundamentals of Blockchain Technology

Analyze Blockchain Architecture and Consensus Mechanisms

Explore Different Blockchain Platforms and Smart Contracts

Evaluate Real-World Applications of Blockchain

Assess Challenges and Future Trends in Blockchain

Apply Blockchain Concepts to Real-World Problems

Syllabus

Unit 1: Introduction to Blockchain (10 Hours)

- **Introduction to Blockchain Technology**
 - Definition and characteristics
 - History and evolution of blockchain
 - Blockchain vs. Traditional Databases
 - Use cases and real-world applications
- **Fundamentals of Cryptography and Security**
 - Basics of Cryptography: Hashing, Symmetric & Asymmetric Encryption
 - Digital Signatures and Public Key Infrastructure (PKI)

- Merkle Trees and Data Integrity
- **Distributed Ledger Technology (DLT)**
 - Concept of decentralization
 - Consensus mechanisms: Proof of Work (PoW), Proof of Stake (PoS)
 - Smart Contracts and their significance

Unit 2: Blockchain Architecture and Platforms (10 Hours)

- **Blockchain Structure & Types**
 - Components: Blocks, Nodes, and Network
 - Public, Private, Consortium, and Hybrid Blockchains
 - Blockchain Layers (Network, Consensus, Data, Application)
- **Overview of Blockchain Platforms**
 - Bitcoin Blockchain: Transactions, Mining, and Security
 - Ethereum: Smart Contracts, Gas Fees, and Decentralized Applications (DApps)
 - Hyperledger Fabric: Enterprise Blockchain Solutions
- **Consensus Algorithms & Governance**
 - Byzantine Fault Tolerance (BFT)
 - Delegated Proof of Stake (DPoS) and Proof of Authority (PoA)
 - Blockchain Governance Models

Unit 3: Applications, Challenges & Future Trends (10 Hours)

- **Blockchain in Industry**
 - Financial Services (Cryptocurrencies, DeFi)
 - Supply Chain & Logistics
 - Healthcare & Identity Management
 - Government & Smart Cities
- **Challenges & Limitations**
 - Scalability, Security, and Privacy Issues
 - Energy Consumption and Sustainability Concerns
 - Legal & Regulatory Frameworks
- **Future of Blockchain**
 - Web3, Metaverse, and Blockchain Integration
 - Central Bank Digital Currencies (CBDCs)
 - Emerging Trends: Layer 2 Solutions, Interoperability, and AI in Blockchain

Mode of Delivery: Face to Face

Class: 1 uses

Course Code :

Roll No	Name of the Student	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
			20/11/2019	25/12/2019	29/12/2019	1/1/2020	4/1/2020	8/1/2020	12/1/2020	16/1/2020	20/1/2020	24/1/2020	28/1/2020	1/2/2020	5/2/2020	9/2/2020	13/2/2020
2420P A	Prem sai lakshman	1	2	3	4	5	A	6	7	8	A	9	10	11	12	A	13
2420P Y.	scateegh kurnan	1	2	A	3	4	5	6	A	7	8	9	10	11	12	B	13
2420P A	Ramesh keerthana	1	2	3	4	A	5	6	7	A	8	9	A	10	11	A	12
2420P B.	Tejaswi	A	1	2	3	4	5	A	6	7	8	9	A	10	11	A	12
2420P H.	Varshini	1	2	3	4	5	6	7	8	9	A	10	11	12	A		
2420P P.	Kasthik	1	2	3	A	4	5	6	A	7	8	9	A	10	11	A	12
2420P T.	Meghana	A	1	2	3	A	4	5	6	A	7	8	A	9	10	A	11
2420P S.	Jaya prakash	1	2	3	4	5	6	7	A	8	9	A	10	11	12	A	
2420P M.	Kishore Nandam	A	1	2	A	3	4	5	A	6	7	A	8	A	9	10	A
2420P D.	Naga Hema	1	2	3	4	A	5	6	7	A	8	9	A	10	11	A	12
2420P B.	Preetham	1	2	A	3	4	5	6	7	8	A	9	10	11	12	A	
2420P A.	saiidhanish yadav	A	1	2	A	3	A	4	5	6	7	8	9	10	11	A	12
2420P G.	saritha	1	2	A	3	A	4	5	6	7	8	A	9	10	11	A	12
2420P V.	Divya manasa	A	1	2	A	3	A	4	5	6	7	8	A	9	10	A	11
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2420P S.	sushma Raviyalakshmi	1	2	3	A	4	5	6	A	7	8	9	10	11	12	A	13
2420P H.	Neelima	1	2	3	4	5	6	7	8	9	10	11	12	A	A	13	A
2420P S.	sushma Raviyalakshmi	1	2	3	4	5	6	A	7	8	9	10	11	12	A	13	A
2420P K.	sahitha	A	A	2	3	4	A	5	6	A	7	8	9	A	10	A	11
2420P P.	sai sakthi	A	1	2	3	4	5	6	7	8	9	10	11	12	13	A	
2420P R.	sai Lakshmi	A	1	2	3	4	5	6	7	8	9	10	11	12	13	A	
2420P M.	Hemalatha	1	2	3	4	5	6	A	7	8	9	10	11	12	13	A	
2420P K.	sahitha	1	2	3	4	5	6	A	7	8	A	9	10	A	A	11	A
2420P G.	Hadhu varshini	1	A	2	3	4	A	5	6	7	8	9	A	10	11	A	12
2420P A.	Ganana prasanna	1	2	3	4	5	6	A	7	8	9	10	11	A	A	12	A
2420P N.	Therishma	1	A	A	2	3	4	5	6	7	8	9	10	11	12	13	A
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CIRCULAR

Department of Commerce
P. B. Siddhartha College of Arts and Science

Subject: Announcement of **Digital Marketing Certificate Course**

The Department of Commerce is pleased to announce a **Certificate Course in Digital Marketing**, designed to equip students with essential skills in the field of marketing. This course will be beneficial for students aspiring to build a career in Digital Marketing.

Course Details:

- **Course Name:** Digital Marketing Certificate Course
- **Duration:** 30 Hours
- **Offered By:** Department of Commerce
- **Eligibility:** Open to all interested students
- **Mode of Instruction:** [Offline]
- **Course Content:** Introduction to Data Science, Python for Data Analysis, Machine Learning Basics, Data Visualization, and Case Studies.
- **Certificate:** Upon successful completion of the course, participants will be awarded a certificate by the Department of Commerce.

Registration Details:

Interested students are requested to register through the Department Office. Limited seats are available, and selection will be on a first-come, first-served basis.

We encourage all interested students to take advantage of this opportunity to enhance their skills in Digital Marketing.

Head
Department of Commerce
P. B. Siddhartha College of Arts and Science.
11.05.2021.



Digital Marketing

Course Code: VACCOMT0

(Value- Added Course offered by the Department of Commerce)

Year of offering	:	2021- 22
Offered to	:	B.Com
Duration	:	30 Hours
Semester of offering	:	EVEN (II)
Prerequisites	:	
Credits	:	2(Additional)

Course Description

This course provides an in-depth understanding of digital marketing, covering its significance, key differences from traditional marketing, and market analysis. Students will learn to plan and create websites, incorporating design, content, and plugins effectively. The course also explores Search Engine Optimization (SEO), including its history, importance, and techniques for on-page and off-page optimization. Additionally, it delves into search engine marketing, focusing on Google Ads, campaign creation, and ad management. By the end of the course, students will gain practical skills to navigate and leverage digital marketing strategies successfully.

Course Objectives

- Understand Digital Marketing Fundamentals** – Explain the meaning, importance, and trends in digital marketing while differentiating it from traditional marketing.
- Analyze Online Market Environments** – Conduct micro and macro environment analyses to assess competition and market trends in the digital space.
- Develop and Manage Websites** – Learn the process of website planning, creation, and optimization, including content integration and plugin activation.
- Master Search Engine Optimization (SEO)** – Implement on-page and off-page SEO techniques to enhance website visibility and improve search engine rankings.
- Create and Manage Digital Advertising Campaigns** – Develop search engine marketing strategies, including Google Ads campaigns, ad creation, and optimization for better reach and engagement.

Course Outcomes: After completion of this course, the students will able to

- Understand Digital Marketing Concepts** – Students will be able to explain the fundamentals of digital marketing, its significance, and its impact compared to traditional marketing.
- Analyze and Apply Market Research** – Learners will conduct online market analysis, identifying key micro and macro environmental factors influencing digital strategies.
- Develop and Optimize Websites** – Students will gain hands-on experience in website creation, incorporating design elements, content, and plugins for functionality.
- Implement SEO and Digital Advertising Strategies** – Learners will apply SEO techniques and create effective search engine marketing campaigns, including Google Ads, to enhance online visibility and engagement.

Syllabus

Unit 1: Introduction

Digital marketing: Meaning – importance – traditional online marketing vs digital marketing – online marketplace analysis Micro Environment – Online Macro Environment - trends in digital marketing – competitive analysis.

Unit 2: Web site planning and creation

Web Site: meaning – objectives – components of website - website creation – incorporation of design and– adding content, installing and activating plugins.

Unit 3: Search Engine Optimization (SEO)

SEO: Meaning – History and growth of SEO –Importance of Search Engine - On page Optimization – Off Page optimization – Role of Search Engine Operation- google Ad words – Search Engine Marketing: Campaign Creation – Ad Creation, Approval and Extensions.

Mode of Delivery: Face to Face

Is your course Theory/Practical/Both? : Both

Mode of Assessment and Weightage

LAB Record : 0 Marks

SEE LAB : 50 Marks

Course Planner : B. PHANI KRISHNA.

Roll No.	Name of the Student	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
213101P	G. Kavya Sri	1/6/2023	13	21	22	3	10	19	2	26	9	11	19	22	23	21	
213106P	S.K. Yagin Pashi	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	18	
213107P	S.K. Nagori Bagha	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
213111P	M. Karthik	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
213113P	S.V.J. Kumar	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
213114P	D. Sasi Sri	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	12		
213115P	Ch. Vaishnavi	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
213116P	B. Shamimtha	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	13	
213118P	M. Jahnavi	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	13	
213119P	D. Amareeswar Choudhary	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	13	
213124P	Sunny Bansal	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
213165P	K. Asha Jyothi	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	13	
213166P	G. Saranya	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	13	
213167P	P. Chandana	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
213168P	MD. Amrin	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	13	
213169P	D. Lakshmi Redhini	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
213170P	Koushik Patel	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	13	
213172P	Keeshthy Pandey	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
213173P	P. Naga Lakshmi	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
213178P	Ch. Vijay Sri	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
213179P	S.K. Shakil	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
213180P	Ch. Naveen	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	13	
213181P	A. Prash	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	13	
213182P	B. V. Karthik Datta	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
213183P	S.K. Amresha Begum	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
213184P	Gunn Gunn Bafna	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	13	
213185P	P.D. Hareesh Kumar	1/6/2023	1	2	3	4	5	6	7	8	9	10	11	12	13	13	

16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45					
9	6	1	16	2	6	13	14	15	17	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
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6P	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45		
7P	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45		
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1P	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45			
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1P	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45			
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CIRCULAR

**Department of Business Administration,
P. B. Siddhartha college of Arts and Science.**

Subject: Certificate Course on Principles of Management

The Department of Business Administration (UG) is pleased to announce a **Certificate Course on Principles of Management**. This program is designed to provide foundational knowledge of key management concepts, leadership skills, and strategic decision-making. It equips learners with practical insights to effectively manage teams and business operations.

Course Details:

- **Course Title:** Principles of Management
- **Duration:** 30 Hours
- **Eligibility:** Open to all interested students and professionals
- **Mode of Delivery:** Offline
- **Course Fee:** 300
- **Start Date:** 05.12.2018
- **End Date:** 19.03.2018

Course Highlights:

- ❖ Learn the core functions of management: planning, organizing, leading, and controlling.
- ❖ Gain insights into leadership styles, motivation theories, and effective team management.
- ❖ Understand organizational structures and how to design them for optimal performance.
- ❖ Develop decision-making skills and problem-solving techniques for business challenges.
- ❖ Explore strategies for managing change, innovation, and fostering a sustainable work environment.
- ❖ Focus on ethical practices and corporate social responsibility in modern management.

Certification: Participants who successfully complete the course will receive a **Certificate of Completion** from the Department of Business Administration.

Interested candidates are requested to register by offline through registration.

For further details, please contact A. Upendra

Contact number: 9182659670.

We encourage all students and professionals to take advantage of this opportunity to upskill in one of the most in-demand technologies today!

Head of the Department

Department of Business Administration (UG)
P. B. Siddhartha college of Arts and Science.

Department of Business Administration
certificate course on

PRINCIPLES OF MANAGEMENT



P.B SIDDHARTHA COLLEGE OF ARTS AND SCIENCE



PRINCIPLES OF MANAGEMENT

(Certificate Course offered by the Department of Business Administration)

Year of offering : 2018-19

Offered to : BA -EMS

Duration : 30 hours

Prerequisites : -

Course Description

This course provides an introduction to the essential principles and practices of effective management. Students will explore the key functions of management, including planning, organizing, leading, and controlling. The course aims to develop a comprehensive understanding of the role of managers in both the private and public sectors, focusing on how they can optimize organizational performance and achieve strategic goals.

Course Objectives

1. Understand Management Concepts.
2. Master Planning Techniques.
3. Organizational Design and Decision Making.
4. Enhance Directing and Motivation Skills.
5. Implement Control Mechanisms.

Course Outcomes: At the end of the course, the student will able to –

CO1: Outline the fundamental Functions of Managers

CO2: Explain the basic concepts of planning function

CO3: Understand the aspects involved in organizing function

CO4: Comprehend the issues in the Directing function

CO5: Understand various control techniques practiced at organizations

SYLLABUS

Unit – I:

Definition of Management, Functions of Management, Principles of Management, Levels of Management, Business Strategy-SWOT Analysis.

Unit – II:

Purpose of Planning, Planning Process, Types of Plans, Objectives, Managing by Objectives (MBO); Organizing; Organization Structure, Formal and Informal Organization, Decision Making Process.

Unit – III:

Directing, Motivation, Motivation Theories, Leadership Styles, Leadership Theories, Controlling, Process of Controlling, Types of Control-Budgetary and Non-Budgetary, Control Techniques, Cost Control, Purchase Control, Maintenance Control, QualityControl.

Text Book:

1. Sharma, Principles of Management, Kalyani Publishers, Hyderabad.

References:

1. Koontz, H. and Wehrich H, Management, McGraw Hill.
2. Stoner, J etc., Management, Pearson Education.
3. Charles.W.L. Hill& Steven.L. McShane, Principles of Management, McGraw Hill Education India Pvt. Ltd., Secunderabad.

Mode of Delivery: Face to Face

Class : I B.B.A Course Code : 101

Title of the Paper : *Principles of Management*

Class : I BA-EMS Course Code :

Roll No	Name of the Student	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
180141	Udaora Satishb	5/12/1992	6/12/1992	1/2/1992	10/12/1992	20/12/1992	2/1/2000	1/1/2000	10/1/2000	21/1/2000	29/1/2000	16/12/1992	5/12/1992	14/12/1992	19/12/1992	1/1/2000	
180142	Karugola Praveen Kumar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
180143	Pabodugu Gopi	a	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
180144	Manchala Robit Kumar	a	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
180145	Boga Lavanya	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
180146	Tadigatla Girisha Reddy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
180147	Koluva Ramakrishna Reddy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
180148	Mandadaru Savanya	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
180149	Madakarapu Varasi Sai	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
180150	Shaik Shabash Valisudaj	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
180151	Mohammed Javid	a	1	2	3	4	5	6	7	8	9	10	11	12	13	14	

Title of the Paper : Principles of Management

16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45										
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**PARVATHANENI BRAHMAYYA
SIDDHARTHA COLLEGE OF ARTS & SCIENCE**
Siddhartha Nagar, VIJAYAWADA - 520 010, Andhra Pradesh
Autonomous, NAAC A+ Grade, ISO Certified Institution



1.3.2 VALUE ADDED COURSE CERTIFICATE 2022 – 2023 (29)



Department of PHYSICS 2022 - 2023 Certificate Programmes

Certificate number	Roll No	NAME
AOC2022-23211201P	211201P	DAMISETTY DURGA PRASAD
AOC2022-23211202P	211202P	KOTTEEDA PAVAN KUMAR
AOC2022-23211204P	211204P	SARAGADA MADHU RAMA DURGA
AOC2022-23211205P	211205P	GUNDAGANI SRAVANI
AOC2022-23211206P	211206P	SHAIK SHAFIULLAH
AOC2022-23211207P	211207P	INDUGULA SRINIVASA RAO
AOC2022-23211208P	211208P	CHITROJU SWAMY YOGANAND
AOC2022-23211209P	211209P	BANAVATH CHAITANYA NAIK
AOC2022-23211210P	211210P	MANI SRAVANI NEELAM
AOC2022-23211212P	211212P	PIDUGU VIJAY KUMAR
AOC2022-23211213P	211213P	LINGINENI SAI SEKHAR
AOC2022-23211214P	211214P	MYLA SIVA MANIKANTA
AOC2022-23211215P	211215P	TANDRA HEMA SAI
AOC2022-23211216P	211216P	MUTTIREDDY AMARNADH
AOC2022-23211218P	211218P	RAVULAPATI CHATURVEDI
AOC2022-23211219P	211219P	BEVARA PAVANI
AOC2022-23211220P	211220P	DARAPANENI BHAVYA CHAITANYA
AOC2022-23211221P	211221P	BURADA BABY RENUKA
AOC2022-23211223P	211223P	YENDUVA BALA SATYANARAYANA
AOC2022-23211224P	211224P	SHAIK FAZAL
AOC2022-23211225P	211225P	PODUGU MAHESWARI
AOC2022-23211227P	211227P	BANAVATHU HEMANTH NAYAK
AOC2022-23211228P	211228P	BUPATHI SRINIVAS
AOC2022-23211229P	211229P	BOGGAVARAPU SRI DHARANI
AOC2022-23211230P	211230P	BATTINA BHAVANI KRISHNA
AOC2022-23211231P	211231P	ALABANA DURGA
AOC2022-23211232P	211232P	SYKAM BRAHMA REDDY
AOC2022-23211234P	211234P	GARLAPATI DEVA DASU
AOC2022-23211235P	211235P	GARIKAPATI KARTHIK
AOC2022-23211236P	211236P	THAMMANA VISWANATH RAJU
AOC2022-23211237P	211237P	BAYANA PRABHU CHAITANYA
AOC2022-23211238P	211238P	YALAVARTHI JHANSI RANI
AOC2022-23211239P	211239P	ALLU SURYA PRAKASH REDDY
AOC2022-23211240P	211240P	BUDATI UTTEJ
AOC2022-23211241P	211241P	NIKKU MIDHILESH
AOC2022-23211242P	211242P	SHAIK KHAJA
AOC2022-23211243P	211243P	VALLURU CHIRUVENKAT
AOC2022-23211244P	211244P	MEESALA PRAVEEN KUMAR
AOC2022-23211246P	211246P	KARUBOTHU DURGA PRASAD
AOC2022-23211261P	211261P	SHAIK AMEER HAMZA



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Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **DAMISETTY DURGA PRASAD (211201P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.

Dr. M. Ramesh
Principal

Dr. T. Srinivas Krishna
HOD (I/C)

AOC2022-23211201P



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Course completion certificate

This is to certify that Mr. / Ms. **KOTTEEDA PAVAN KUMAR (211202P)** has successfully completed **Add on Course (AOC)** on “Solar Energy and its Applications” conducted by Department of Physics, during the Academic 2022 - 2023.

Dr. M. Ramesh
Principal

Dr. T. Srinivas Krishna
HOD (I/C)

AOC2022-23211202P



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Course completion certificate

This is to certify that Mr. / Ms. **SARAGADA MADHU RAMA DURGA (211204P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.



Dr. M. Ramesh
Principal



Dr. T. Srinivas Krishna
HOD (I/C)

AOC2022-23211204P



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Course completion certificate

This is to certify that Mr. / Ms. **GUNDAGANI SRAVANI (211205P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.

Dr. M. Ramesh
Principal

Dr. T. Srinivas Krishna
HOD (I/C)

AOC2022-23211205P



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Course completion certificate

This is to certify that Mr. / Ms. **SHAIK SHAFIULLAH (211206P)** has successfully completed

Add on Course (AOC) on “Solar Energy and its Applications” conducted by Department of Physics, during the Academic 2022 - 2023.

Dr. M. Ramesh
Principal

Dr. T. Srinivas Krishna
HOD (I/C)

AOC2022-23211206P



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Course completion certificate

This is to certify that Mr. / Ms. **INDUGULA SRINIVASA RAO (211207P)** has successfully completed **Add on Course (AOC)** on “Solar Energy and its Applications” conducted by Department of Physics, during the Academic 2022 - 2023.

Dr. M. Ramesh
Principal

Dr. T. Srinivas Krishna
HOD (I/C)

AOC2022-23211207P



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Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **CHITROJU SWAMY YOGANAND (211208P)** has

successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.



Dr. M. Ramesh
Principal



Dr. T. Srinivas Krishna
HOD (I/C)

AOC2022-23211208P



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Course completion certificate

This is to certify that Mr. / Ms. **BANAVATH CHAITANYA NAIK (211209P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.



Dr. M. Ramesh
Principal



Dr. T. Srinivas Krishna
HOD (I/C)

AOC2022-23211209P



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Course completion certificate

This is to certify that Mr. / Ms. **MANI SRAVANI NEELAM (211210P)** has successfully completed **Add on Course (AOC)** on “Solar Energy and its Applications” conducted by Department of Physics, during the Academic 2022 - 2023.

Dr. M. Ramesh
Principal

Dr. T. Srinivas Krishna
HOD (I/C)

AOC2022-23211210P



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Course completion certificate

This is to certify that Mr. / Ms. **PIDUGU VIJAY KUMAR (211212P)** has successfully completed **Add on Course (AOC)** on “Solar Energy and its Applications” conducted by Department of Physics, during the Academic 2022 - 2023.

Dr. M. Ramesh
Principal

Dr. T. Srinivas Krishna
HOD (I/C)

AOC2022-23211212P



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Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **LINGINENI SAI SEKHAR (211213P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.

Dr. M. Ramesh
Principal

Dr. T. Srinivas Krishna
HOD (I/C)

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Course completion certificate

This is to certify that Mr. / Ms. **MYLA SIVA MANIKANTA (211214P)** has successfully completed **Add on Course (AOC)** on “Solar Energy and its Applications” conducted by Department of Physics, during the Academic 2022 - 2023.

Dr. M. Ramesh
Principal

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Course completion certificate

This is to certify that Mr. / Ms. **TANDRA HEMA SAI (211215P)** has successfully completed

Add on Course (AOC) on “Solar Energy and its Applications” conducted by Department of Physics, during the Academic 2022 - 2023.



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Course completion certificate

This is to certify that Mr. / Ms. **MUTTIREDDY AMARNADH (211216P)** has successfully completed **Add on Course (AOC)** on “Solar Energy and its Applications” conducted by Department of Physics, during the Academic 2022 - 2023.

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Course completion certificate

This is to certify that Mr. / Ms. **RAVULAPATI CHATURVEDI (211218P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.

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Course completion certificate

This is to certify that Mr. / Ms. **BEVARA PAVANI (211219P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.

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Course completion certificate

This is to certify that Mr. / Ms. **DARAPANENI BHAVYA CHAITANYA (211220P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.



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This is to certify that Mr. / Ms. **BURADA BABY RENUKA (211221P)** has successfully completed **Add on Course (AOC)** on “Solar Energy and its Applications” conducted by Department of Physics, during the Academic 2022 - 2023.

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Course completion certificate

This is to certify that Mr. / Ms. **YENDUVA BALA SATYANARAYANA (211223P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.



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Course completion certificate

This is to certify that Mr. / Ms. **SHAIK FAZAL (211224P)** has successfully completed **Add on**

Course (AOC) on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.

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Course completion certificate

This is to certify that Mr. / Ms. **PODUGU MAHESWARI (211225P)** has successfully completed **Add on Course (AOC)** on “Solar Energy and its Applications” conducted by Department of Physics, during the Academic 2022 - 2023.

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This is to certify that Mr. / Ms. **BANAVATHU HEMANTH NAYAK (211227P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.



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Course completion certificate

This is to certify that Mr. / Ms. **BUPATHI SRINIVAS (211228P)** has successfully completed

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This is to certify that Mr. / Ms. **BOGGAVARAPU SRI DHARANI (211229P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.

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This is to certify that Mr. / Ms. **BATTINA BHAVANI KRISHNA (211230P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.

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Course completion certificate

This is to certify that Mr. / Ms. **ALABANA DURGA (211231P)** has successfully completed

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Course completion certificate

This is to certify that Mr. / Ms. **SYKAM BRAHMA REDDY (211232P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.

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This is to certify that Mr. / Ms. **GARLAPATI DEVA DASU (211234P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.

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Course completion certificate

This is to certify that Mr. / Ms. **GARIKAPATI KARTHIK (211235P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.

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Course completion certificate

This is to certify that Mr. / Ms. **THAMMANA VISWANATH RAJU (211236P)** has

successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.



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This is to certify that Mr. / Ms. **BAYANA PRABHU CHAITANYA (211237P)** has successfully completed **Add on Course (AOC)** on “Solar Energy and its Applications” conducted by Department of Physics, during the Academic 2022 - 2023.

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Course completion certificate

This is to certify that Mr. / Ms. **YALAVARTHI JHANSI RANI (211238P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.

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This is to certify that Mr. / Ms. **ALLU SURYA PRAKASH REDDY (211239P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.

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Course completion certificate

This is to certify that Mr. / Ms. **BUDATI UTTEJ (211240P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.

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Course completion certificate

This is to certify that Mr. / Ms. **NIKKU MIDHILESH (211241P)** has successfully completed

Add on Course (AOC) on “Solar Energy and its Applications” conducted by Department of Physics, during the Academic 2022 - 2023.



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Course completion certificate

This is to certify that Mr. / Ms. **SHAIK KHAJA (211242P)** has successfully completed **Add on**

Course (AOC) on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.

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This is to certify that Mr. / Ms. **VALLURU CHIRUVENKAT (211243P)** has successfully completed **Add on Course (AOC)** on “Solar Energy and its Applications” conducted by Department of Physics, during the Academic 2022 - 2023.

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Course completion certificate

This is to certify that Mr. / Ms. **MEESALA PRAVEEN KUMAR (211244P)** has successfully completed **Add on Course (AOC)** on “Solar Energy and its Applications” conducted by Department of Physics, during the Academic 2022 - 2023.

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Course completion certificate

This is to certify that Mr. / Ms. **KARUBOTHU DURGA PRASAD (211246P)** has

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This is to certify that Mr. / Ms. **SHAIK AMEER HAMZA (211261P)** has successfully completed **Add on Course (AOC)** on “**Solar Energy and its Applications**” conducted by Department of Physics, during the Academic 2022 - 2023.

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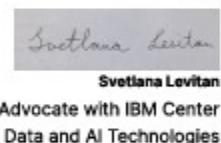
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Romeo Kienzler
Chief Data Scientist
IBM



Maureen McElaney
Developer Advocate
IBM



Svetlana Levitan
Senior Developer Advocate with IBM Center
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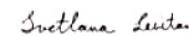
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Chief Data Scientist
IBM



Maureen McElaney
Developer Advocate
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Svetlana Levitan

Senior Developer Advocate with IBM Center for Open Data and AI Technologies
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A handwritten signature in black ink, appearing to read "Romeo Kienzler".

Romeo Kienzler
Chief Data Scientist
IBM

A handwritten signature in black ink, appearing to read "Maureen McElaney".

Maureen McElaney
Developer Advocate
IBM



This is to certify that

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Romeo Kienzler
Chief Data Scientist
IBM



Maureen McElaney
Developer Advocate
IBM



Svetlana Levitan

Senior Developer Advocate with IBM Center for Open Data and AI Technologies
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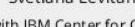


Maureen McElaney

Developer Advocate
IBM



Svetlana Levitan



Svetlana Levitan
Senior Developer Advocate with IBM Center for Open Data and AI Technologies
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Chief Data Scientist
IBM


Maureen McElaney
Developer Advocate
IBM

<https://courses.cognitiveclass.ai/certificates/c635845a03cc4f2bbf00ebdf27912e4c>

1/2



Svetlana Levitan

Senior Developer Advocate with IBM Center for Open Data and AI Technologies
IBM

October 17, 2022

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/c635845a03cc4f2bbf00ebdf27912e4c>



This is to certify that

sk.Ameer Sohel

successfully completed and received a passing grade in

Data Science Tools

(DS0105EN, provided by IBM)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

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Cognitive Class

Romeo Kienzler
Chief Data Scientist
IBM

Maureen McElaney
Developer Advocate
IBM



This is to certify that

Priyanka Gattu

successfully completed and received a passing grade in

Data Science Tools (DS0105EN, provided by IBM)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

Issued by
Cognitive Class

A handwritten signature in black ink, appearing to read "RK".

Romeo Kienzler
Chief Data Scientist
IBM

A handwritten signature in black ink, appearing to read "MM".

Maureen McElaney
Developer Advocate
IBM

Svetlana Levitan

Svetlana Levitan

Senior Developer Advocate with IBM Center for Open Data and AI Technologies
IBM

June 21, 2023

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/96c0935d0af3432eb5cf6087c3d6810e>

Certificate ID Number: 96c0935d0af3432eb5cf6087c3d6810e

June 21, 2023



This is to certify that

Kallepalli Lokesh kumar

successfully completed and received a passing grade in

Data Science Tools

(DS0105EN, provided by IBM)

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Powered by IBM Developer Skills Network.

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Romeo Kienzler
Chief Data Scientist
IBM

Maureen McElaney
Developer Advocate
IBM

Svetlana Levitan

Senior Developer Advocate with IBM Center for Open Data and AI Technologies
IBM

February 2, 2023

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/f848eda1040644a9b7b3bdc01bc97e60>

Certificate ID Number:

[f848eda1040644a9b7b3bdc01bc97e60](https://courses.cognitiveclass.ai/certificates/f848eda1040644a9b7b3bdc01bc97e60)

February 2, 2023



This is to certify that

Harika Sravani Devarasetty

successfully completed and received a passing grade in

Data Science Tools (DS0105EN, provided by IBM)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

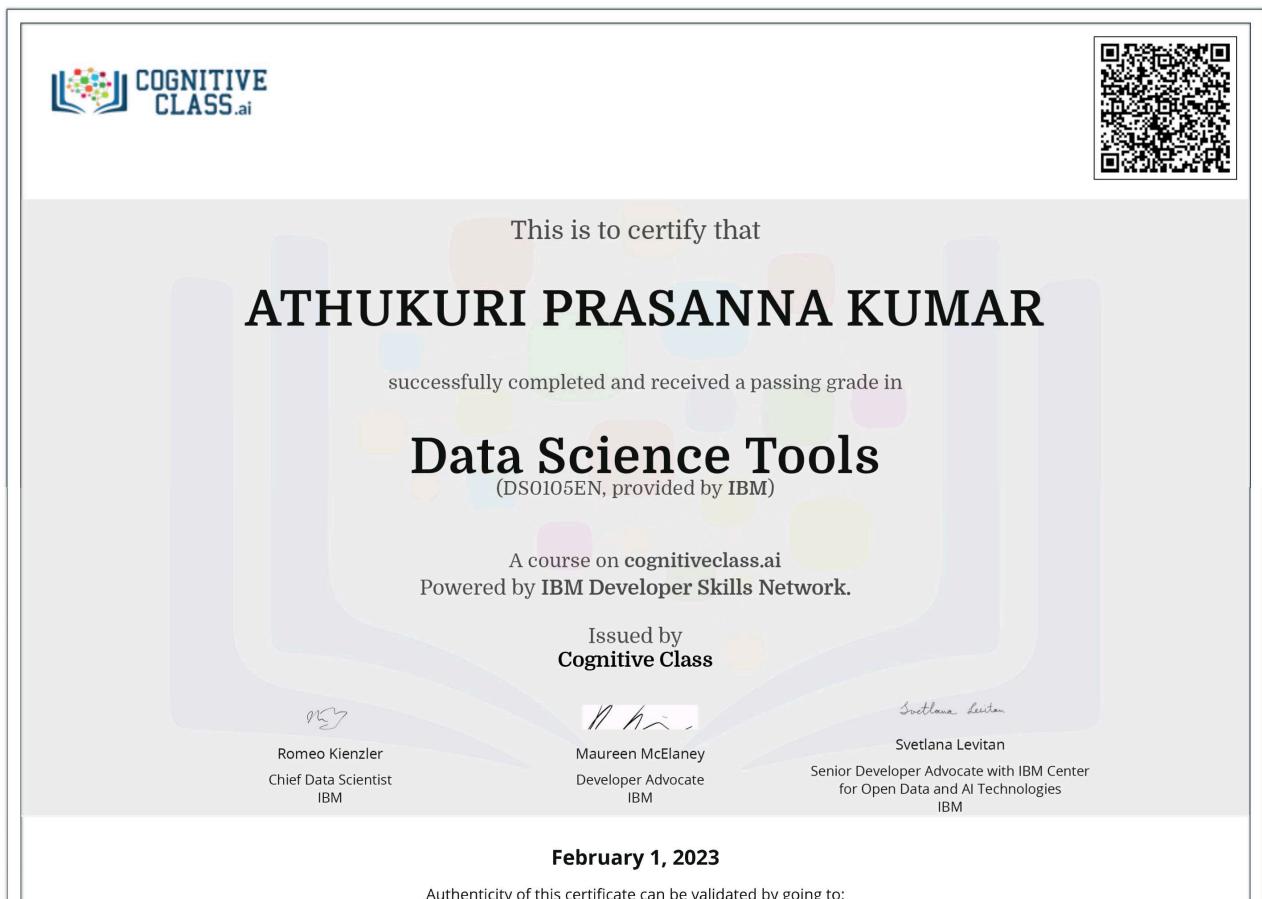
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A handwritten signature in black ink, appearing to read "RK".

Romeo Kienzler
Chief Data Scientist
IBM

A handwritten signature in black ink, appearing to read "MM".

Maureen McElaney
Developer Advocate
IBM





This is to certify that

KAVYA PALISETTY

successfully completed and received a passing grade in

Data Science Tools

(DS0105EN, provided by IBM)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

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Romeo Kienzler
Chief Data Scientist
IBM



Maureen McElaney
Developer Advocate
IBM



**PARVATHANENI BRAHMAYYA
SIDDHARTHA COLLEGE OF ARTS & SCIENCE**

Siddhartha Nagar, VIJAYAWADA - 520 010, Andhra Pradesh
Autonomous, NAAC A+ Grade, ISO Certified Institution



1.3.2 VALUE ADDED COURSE CERTIFICATE 2022 – 2023 (24)



Department of Msc Computer science Certificate Programme - 2022-2023

ROLL NO	NAME OF THE STUDENT	CERTIFICATION PROGRAMME	COLLABORATION WITH OR ORGANIZED BY
21CSC02	TULASI KRISHNA DOKKU	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21CSC07	SYAMALA SRI RAVI CHANDRA VARNA GOTTUMUKKALA	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21CSC10	PARIMA SYAM BABU	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21CSC12	KOSANA BHUVANESWARI	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21CSC15	A.PREMJITH JOSHI	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21CSC17	JAGADEESH PANDIRIPALLI	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21CSC20	KORAKOPPULA CHINA VENKATESH	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21CSC34	P.NAGA MALLESWARA RAO	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA01	LIKITHA SRI DIVI	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA04	KARANAM DIGVIJAY SOWJANYA CHANDRA	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA08	SUNAN JOY GUNJA	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA09	VENKATA DURGA	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA12	MURALA NAGA ALEKHYA	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA13	GAYATHRI ATHYAM	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA16	PRASANNA THOTA	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA17	BADUGU KEERTHANA	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA18	SAI MAMIDI PAAKA	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA19	CHOKKAPU VINAY KUMAR	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA25	LANKA NAGA SAI KISHORE	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA34	OLETI YASASWINI PRIYA	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI

21MCA36	RASHEEDA DUTHALURI	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA42	PALLAGANI TANUJA	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA45	SRAVYA CHENNU	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA46	CHITTURI NAVYA SRI	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA47	GUMMIDI KRISHNA KUMARI	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA48	KAMISETTY SAI KUMAR	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA54	DIVYA KAKOLLU	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI
21MCA57	K VAASANTHI	BLOCK CHAIN ESSENTIALS	COGNITIVE CLASS.AI



This is to certify that

Tulasi Krishna Dokku

successfully completed and received a passing grade in

Blockchain Essentials

(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai

Powered by IBM Developer Skills Network.

Issued by
Cognitive Class

October 15, 2022

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/989528f522b444e2aa383e049f2a1b90>

Certificate ID Number: 989528f522b444e2aa383e049f2a1b90

<https://courses.cognitiveclass.ai/certificates/989528f522b444e2aa383e049f2a1b90>

October 15, 2022



This is to certify that

**SYAMALASRI RAVI CHANDRA
VARMA GOTTUMUKKALA**

successfully completed and received a passing grade in

Blockchain Essentials
(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai

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September 13, 2022

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This is to certify that

Parimi syam babu

successfully completed and received a passing grade in

Blockchain Essentials

(BC0101EN provided by developerWorks)

A course on cognitiveclass.ai

Powered by IBM Developer Skills Network.

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Cognitive Class

September 16, 2022

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<https://courses.cognitiveclass.ai/certificates/0fa2e6f1172c416492053610f0e0603e>





This is to certify that

kosana bhuvaneswari

successfully completed and received a passing grade in

Blockchain Essentials
(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai

Powered by IBM Developer Skills Network

Issued by
Cognitive Class

September 25, 2022

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<https://courses.cognitiveclass.ai/certificates/0d81e79e06f2407b871137b2a879b8e4>





This is to certify that

A.Premjithjoshi

successfully completed and received a passing grade
in

**Blockchain
Essentials**
(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

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October 15, 2022

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<https://courses.cognitiveclass.ai/certificates/6d66e85b7e8145c3a31aa6db189242db>



This is to certify that

Jagadeesh Pandiripalli

successfully completed and received a passing grade in

Blockchain Essentials
(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai

Powered by IBM Developer Skills Network.

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Cognitive Class

October 17, 2022

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/839a2218447642e7b16de92910fcb1eb>





This is to certify that

korakoppula china venkatesh

successfully completed and received a passing grade in

Blockchain Essentials

(BC0101EN, provided by developerWorks)

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Powered by IBM Developer Skills Network.

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Cognitive Class

September 26, 2022

Authenticity of this certificate can be validated by going to:
<https://courses.cognitiveclass.ai/certificates/8bade9272dcb4008a89bd7fe4dcf3138>





This is to certify that

p.nagamalleswararao

successfully completed and received a passing grade in

Blockchain Essentials
(BC0101EN, provided by developerWorks)

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Powered by IBM Developer Skills Network.

Issued by
Cognitive Class

September 26, 2022

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/1c27dfa11c974439bb84178362698895>





This is to certify that

Likhitha Sri Divi

successfully completed and received a passing grade in

Blockchain Essentials
(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai
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Cognitive Class

October 17, 2022

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/67791f4b877b45158996bdb34127e78d>



This is to certify that

KARANAM DIGVIJAY SOWJANYA CHANDRA

successfully completed and received a passing grade in

Blockchain Essentials (BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai
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October 19, 2022

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/26fecdd300b3f4757809816ad129fb110>



This is to certify that

SusanJoy Gunja

successfully completed and received a passing grade in

Blockchain Essentials

(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai
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Cognitive Class

October 20, 2022

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/a416543b572542eea38a6192ae4e7c9d>



This is to certify that

venkata durga

successfully completed and received a passing grade in

Blockchain Essentials
(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

Issued by
Cognitive Class

October 17, 2022

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/63d4fabfad914aca945b11a2da6bf67c>



This is to certify that

Murala Naga Alekhya

successfully completed and received a passing grade in

Blockchain Essentials

(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

Issued by
Cognitive Class

October 19, 2022

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/a842794a39d640929dfa00c77b569140>



This is to certify that

Gayathri Athyam

successfully completed and received a passing grade in

Moving Data into Hadoop

(BDD0131EN, provided by Big Data University)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

Issued by
Cognitive Class

Big Data University

October 17, 2022

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/3fa34693f9b44c4594cfcc3e73d4f6c09>



Certificate ID Number: 8e0743cabe5f4ca3b1322bce18c77aaa

October 22, 2022

<https://courses.cognitiveclass.ai/certificates/8e0743cabe5f4ca3b1322bce18c77aaa>

1/1



This is to certify that

**21MCA17 BADUGU
KEERTHANA**

successfully completed and received a passing grade in

Blockchain Essentials
(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

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Cognitive Class

October 21, 2022

Authenticity of this certificate can be validated by going to:
<https://courses.cognitiveclass.ai/certificates/66c6a99d0f9848e6a6deb7bf51a9f1fc>



This is to certify that

Sai Mamidipaka

successfully completed and received a passing grade in

Blockchain Essentials
(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

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Cognitive Class

October 20, 2022

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<https://courses.cognitiveclass.ai/certificates/6d9161186c864d30b2c2787d6245223c>



This is to certify that

chokkapu vinay kumar

successfully completed and received a passing grade in

Blockchain Essentials
(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

Issued by
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October 20, 2022

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<https://courses.cognitiveclass.ai/certificates/eba36584d2024ef6915a291bcb4c9dca>



This is to certify that

Lanka Naga Sai Kishore

successfully completed and received a passing grade in

Blockchain Essentials

(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

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Cognitive Class

October 22, 2022

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/ff8c8a9b9d764762a615260cc8aa5f5f>



This is to certify that

OLETI YASASWINI PRIYA

successfully completed and received a passing grade in

Blockchain Essentials
(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai
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Cognitive Class

October 19, 2022

Authenticity of this certificate can be validated by going to
<https://courses.cognitiveclass.ai/certificates/46343f9c948843c5a317d52d4c36a841>



This is to certify that

Rasheeda Duthaluri

successfully completed and received a passing grade in

Blockchain Essentials

(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

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Cognitive Class

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Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/508ddd8e27f458799069854074d6c70>



This is to certify that

Pallagani Thanuja

successfully completed and received a passing grade in

Blockchain Essentials

(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

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Cognitive Class

October 22, 2022

Authenticity of this certificate can be validated by going to:
<https://courses.cognitiveclass.ai/certificates/6027172f364443b89e0ffbd21f44cda1>



This is to certify that

Sravya Chennu

successfully completed and received a passing grade in

Blockchain Essentials
(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

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Cognitive Class

October 17, 2022

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/46197cdbbb604997b018646509eaba5c>

Certificate ID Number: 46197cdbbb604997b018646509eaba5c

October 17, 2022



This is to certify that

Chitturi Navya Sree

successfully completed and received a passing grade in

Blockchain Essentials

(BC0101EN, provided by developerWorks)

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Cognitive Class

October 21, 2022

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/69f369acfd9b4a04a7d10db49006cb22>

Certificate ID Number: 69f369acfd9b4a04a7d10db49006cb22

October 21, 2022



This is to certify that

Gummidi Krishna Kumari

successfully completed and received a passing grade in

Blockchain Essentials

(BC0101EN, provided by developerWorks)

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Cognitive Class

October 21, 2022

Authenticity of this certificate can be validated by going to:
<https://courses.cognitiveclass.ai/certificates/a63643c5c0fd44178fef25060e9baee9>



Certificate ID Number: 94da27f0e572475bb30bb1016393212c

October 17, 2022



Certificate ID Number: ab73906c7139493a9a90f02f2f77cdfd

October 23, 2022

<https://courses.cognitiveclass.ai/certificates/ab73906c7139493a9a90f02f2f77cdfd>

1/1



This is to certify that

k vasanthi

successfully completed and received a passing grade in

Blockchain Essentials

(BC0101EN, provided by developerWorks)

A course on cognitiveclass.ai
Powered by IBM Developer Skills Network.

Issued by
Cognitive Class

October 22, 2022

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/0b09489f435d470c9716539d77f53a9d>



by Simplilearn



Declaration of Completion

Ashok Kumar Sahoo

has successfully completed the online course:

Digital Marketing 101

This professional has demonstrated initiative and a commitment to deepening their skills and advancing their career. Well done!

31st Mar 2022

Certificate code : 3359043



Krishna Kumar
CEO

LIST OF STUDENTS -VACANAT01 - 2018-19			
SNO	NAME OF THE STUDENT(AS PER X CLASS)	ROLL NUMBER	GRADE
1	BOMMISSETTY CHOWDESWARA RAO	184827	A
2	VALLEPU SRINIVAS	184828	A
3	NAGA REVATHI NIMMA	184829	C
4	POLAVARAPU DHANROHAN BHARADWAJ	184830	B
5	KAPALLI MADHURYA KEERTHI	184831	C
6	SEERAM GEETHIKA SRI LAKSHMI	184832	C
7	PIDIKITI KARTHIK	184833	A
8	ERUVURU PARASURAM BHARATH	184834	A
9	SK.IRFAN FAISAL MOHAMMED	184835	B
10	CHANGAVALLI VINDHYA VASINI	184836	B
11	NALLAMOTHU RAHUL	184871	B
12	KHUSHBOO DOSHI	184872	C



PARVATHANENI BRAHMAYYA

SIDDHARTHA COLLEGE OF ARTS & SCIENCE

An Autonomous College under the Jurisdiction of Krishna University.

College with Potential for Excellence (AWARDED BY THE UGC) Re-Accredited (A+) Grade by the NAAC

Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **BOMMISETTY CHOWDESWARA RAO (184827)** has successfully completed **Value added Course (VAC)** on “*Principles of Management*” conducted by Department of Business Analytics, during the Academic **2018-2019**.



Dr. M. Ramesh
Principal



Dr. P. Guru Prasad
Head(i/c) of the Department

VAC2018-19184827



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Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **VALLEPU SRINIVAS (184828)** has successfully completed **Value added Course (VAC)** on “*Principles of Management*” conducted by Department of Business Analytics, during the Academic **2018-2019**.

Dr. M. Ramesh
Principal

Dr. P. Guru Prasad
Head(i/c) of the Department

VAC2018-19184828



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Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **NAGA REVATHI NIMMA (184829)** has successfully completed **Value added Course (VAC)** on “*Principles of Management*” conducted by Department of Business Analytics, during the Academic **2018-2019**.

Dr. M. Ramesh
Principal

Dr. P. Guru Prasad
Head(i/c) of the Department

VAC2018-19184829



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Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **POLAVARAPU DHANROHAN BHARADWAJ (184830)** has successfully completed **Value added Course (VAC)** on “*Principles of Management*” conducted by Department of Business Analytics, during the Academic **2018-2019**.

Dr. M. Ramesh
Principal

Dr. P. Guru Prasad
Head(i/c) of the Department

VAC2018-19184830



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Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **KAPALLI MADHURYA KEERTHI (184831)** has successfully completed **Value added Course (VAC)** on “*Principles of Management*” conducted by Department of Business Analytics, during the Academic **2018-2019**.

Dr. M. Ramesh
Principal

Dr. P. Guru Prasad
Head(i/c) of the Department

VAC2018-19184831



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Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **SEERAM GEETHIKA SRI LAKSHMI (184832)** has successfully completed **Value added Course (VAC)** on “*Principles of Management*” conducted by Department of Business Analytics, during the Academic **2018-2019**.



Dr. M. Ramesh
Principal



Dr. P. Guru Prasad
Head(i/c) of the Department

VAC2018-19184832



PARVATHANENI BRAHMAYYA

SIDDHARTHA COLLEGE OF ARTS & SCIENCE

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College with Potential for Excellence (AWARDED BY THE UGC) Re-Accredited (A+) Grade by the NAAC

Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **PIDIKITI KARTHIK (184833)** has successfully completed

Value added Course (VAC) on “*Principles of Management*” conducted by Department of Business Analytics, during the Academic **2018-2019**.

Dr. M. Ramesh
Principal

Dr. P. Guru Prasad
Head(i/c) of the Department

VAC2018-19184833



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College with Potential for Excellence (AWARDED BY THE UGC) Re-Accredited (A+) Grade by the NAAC

Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **ERUVURU PARASURAM BHARATH (184834)** has successfully completed **Value added Course (VAC)** on “*Principles of Management*” conducted by Department of Business Analytics, during the Academic **2018-2019**.



Dr. M. Ramesh
Principal



Dr. P. Guru Prasad
Head(i/c) of the Department

VAC2018-19184834



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Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **SK.IRFAN FAISAL MOHAMMED (184835)** has successfully completed **Value added Course (VAC)** on “*Principles of Management*” conducted by Department of Business Analytics, during the Academic **2018-2019**.

Dr. M. Ramesh
Principal

Dr. P. Guru Prasad
Head(i/c) of the Department

VAC2018-19184835



PARVATHANENI BRAHMAYYA

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Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **CHANGAVALLI VINDHYA VASINI (184836)** has successfully completed **Value added Course (VAC)** on “*Principles of Management*” conducted by Department of Business Analytics, during the Academic **2018-2019**.



Dr. M. Ramesh
Principal



Dr. P. Guru Prasad
Head(i/c) of the Department

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Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **NALLAMOTHU RAHUL (184871)** has successfully completed **Value added Course (VAC)** on “*Principles of Management*” conducted by Department of Business Analytics, during the Academic **2018-2019**.



Dr. M. Ramesh
Principal



Dr. P. Guru Prasad
Head(i/c) of the Department

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Course completion certificate

This is to certify that Mr. / Ms. **KHUSHBOO DOSHI (184872)** has successfully completed **Value added Course (VAC)** on “*Principles of Management*” conducted by Department of Business Analytics, during the Academic **2018-2019**.

Dr. M. Ramesh
Principal

Dr. P. Guru Prasad
Head(i/c) of the Department

VAC2018-19184872

LIST OF STUDENTS -VACANAT02 - 2018-19

SNO	NAME OF THE STUDENT(AS PER X CLASS)	ROLL NUMBER	GRADE
1	NAGA VENKATA SAI AJAY KUMAR PESALA	184801	B
2	MAHANKALI NANDINI	184802	C
3	GADDE SAHITI	184803	C
4	MAHANKALI RNVLN RAVI TEJA	184804	A
5	NARAMANCHI VASAVI	184805	A
6	GANDHAM SAI KRISHNA	184806	A
7	GANDAMSETTY SAI VEERA NAGA SURYA KOUSHIK	184807	A
8	GINJUPALLI BINDU SRI	184808	C
9	KURAKULA TARUN	184809	B
10	MADDALI SAI SANKAR CHAKRADHAR	184810	C



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Course completion certificate

This is to certify that Mr. / Ms. **NAGA VENKATA SAI AJAY KUMAR PESALA (184801)** has successfully completed **Value added Course (VAC)** on “*Statistical Data Analysis Using JASP*” conducted by Department of Business Analytics, during the Academic **2018-2019**.



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Course completion certificate

This is to certify that Mr. / Ms. **MAHANKALI NANDINI (184802)** has successfully completed **Value added Course (VAC)** on “*Statistical Data Analysis Using JASP*” conducted by Department of Business Analytics, during the Academic **2018-2019**.

Dr. M. Ramesh
Principal

Dr. P. Guru Prasad
Head(i/c) of the Department

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Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **GADDE SAHITI (184803)** has successfully completed **Value added Course (VAC)** on “*Statistical Data Analysis Using JASP*” conducted by Department of Business Analytics, during the Academic **2018-2019**.

Dr. M. Ramesh
Principal

Dr. P. Guru Prasad
Head(i/c) of the Department

VAC2018-19184803



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Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **MAHANKALI RNVLN RAVI TEJA (184804)** has successfully completed **Value added Course (VAC)** on “*Statistical Data Analysis Using JASP*” conducted by Department of Business Analytics, during the Academic **2018-2019**.

Dr. M. Ramesh
Principal

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Siddhartha Nagar, Vijayawada, Andhra Pradesh-10.

Course completion certificate

This is to certify that Mr. / Ms. **NARAMANCHI VASAVI (184805)** has successfully completed **Value added Course (VAC)** on “*Statistical Data Analysis Using JASP*” conducted by Department of Business Analytics, during the Academic **2018-2019**.



Dr. M. Ramesh
Principal



Dr. P. Guru Prasad
Head(i/c) of the Department

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Course completion certificate

This is to certify that Mr. / Ms. **GANDHAM SAI KRISHNA (184806)** has successfully completed **Value added Course (VAC)** on “*Statistical Data Analysis Using JASP*” conducted by Department of Business Analytics, during the Academic **2018-2019**.

Dr. M. Ramesh
Principal

Dr. P. Guru Prasad
Head(i/c) of the Department

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Course completion certificate

This is to certify that Mr. / Ms. **GANDAMSETTY SAI VEERA NAGA SURYA KOUSHIK (184807)** has successfully completed **Value added Course (VAC)** on “*Statistical Data Analysis Using JASP*” conducted by Department of Business Analytics, during the Academic **2018-2019**.

Dr. M. Ramesh
Principal

Dr. P. Guru Prasad
Head(i/c) of the Department

VAC2018-19184807



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Course completion certificate

This is to certify that Mr. / Ms. **GINJUPALLI BINDU SRI (184808)** has successfully completed **Value added Course (VAC)** on “*Statistical Data Analysis Using JASP*” conducted by Department of Business Analytics, during the Academic **2018-2019**.

Dr. M. Ramesh
Principal

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Head(i/c) of the Department

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Course completion certificate

This is to certify that Mr. / Ms. **KURAKULA TARUN (184809)** has successfully completed **Value added Course (VAC)** on “*Statistical Data Analysis Using JASP*” conducted by Department of Business Analytics, during the Academic **2018-2019**.

Dr. M. Ramesh
Principal

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Head(i/c) of the Department

VAC2018-19184809



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Course completion certificate

This is to certify that Mr. / Ms. **MADDALI SAI SANKAR CHAKRADHAR (184810)** has successfully completed **Value added Course (VAC)** on “*Statistical Data Analysis Using JASP*” conducted by Department of Business Analytics, during the Academic **2018-2019**.



Dr. M. Ramesh
Principal



Dr. P. Guru Prasad
Head(i/c) of the Department

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