

Revised Common Framework of CBCS for PBSC w.e.f.2019-20

Table-1: B.Sc.(MECs) SEMESTER - I

S.NO	Course	Course Code	Part No	Type of the Paper	Total Marks	IA TEST	Sem End Exam	Teaching Hours	Credits
1	English-I	ENGT11A	I	Second Language	100	25	75	4	3
2	Telugu-I	TELT11	I	First Language	100	25	75	4	3
3	Hindi-I	HINT11	I	First Language	100	25	75	4	3
4	Environmental Studies	AEC002	III	Foundation Course	50	10	40	2	2
5	Communication and Soft Skills-I	AEC003A	II	Foundation Course	50	10	40	2	2
6	Differential Equations	MATT11A	II	Core	100	25	75	6	5
7	Basic Circuit Theory	ELET11A	II	Core	100	25	75	4	3
8	Programming in C	CSCT11A	II	Core	100	25	75	4	3
9	Electronics-I	ELEP11A (Pr)	II	Core	50	10	40	2	2
10	Programming in C - Lab	CSCP11A	II	Core	50	10	40	2	2

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Table-2: B.Sc.(MECs) SEMESTER - II

S.NO	Course	Course Code	Part No	Type of the Paper	Total Marks	IA TEST	Sem End Exam	Teaching Hours	Credits
1	English-II	ENGT21A	I	Second Language	100	25	75	4	3
2	Telugu-II	TELT21	I	First Language	100	25	75	4	3
3	Hindi-II	HINT21	I	First Language	100	25	75	4	3
4	Value Education	AEC 016	III	Foundation Course	50	10	40	2	2
5	Information and Communication Technology	AEC004	III	Foundation Course	50	10	40	2	2
6	Differential Equations, Number Theory & Three Dimensional Geometry	MATT21A	II	Core	100	25	75	6	5
7	Semiconductor Devices and Circuits	ELET21A	II	Core	100	25	75	4	3
8	Data Structures	CSCT21A	II	Core	100	25	75	4	3
9	Electronics-II	ELEP21A	II	Core Lab	50	10	40	2	2
10	Computer Science-II	CSCP21A	II	Core Lab	50	10	40	2	2

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Table-3: B.Sc.(MECs) SEMESTER - III

S.NO	Course	Course Code	Part No	Type of the Paper	Total Marks	IA TEST	Sem End Exam	Teaching Hours	Credits
1	Telugu-III	TELT01	I	First Language	100	25	75	4	3
2	Hindi-III	HINT01	I	First Language	100	25	75	4	3
3	Communication and Soft Skills-II	AEC006	III	Foundation Course	50	10	40	2	2
4	Communication and Soft Skills-III	AEC010	III	Foundation Course	50	10	40	2	2
5	Leadership Education	AEC011	III	Foundation Course	50	10	40	2	2
6	Abstract Algebra	MATT31	II	Core	100	25	75	6	5
7	Digital Electronics	ELET31	II	Core	100	25	75	4	3
8	Object Oriented Programming using JAVA	CSCT31	II	Core	100	25	75	4	3
9	Digital Electronics Lab	ELEP31(Pr)	II	Core Lab	50	10	40	2	2
10	Object Oriented Programming using JAVA Lab	CSCP31(Pr)	II	Core Lab	50	10	40	2	2

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Table-4: B.Sc.(MECs) SEMESTER - IV

S.NO	Course	Course Code	Part No	Type of the Paper	Total Marks	IA TEST	Sem End Exam	Teaching Hours	Credits
1	English-III	ENGT01	I	First Language	100	25	75	4	3
2	Analytical Skills	AEC007	III	Foundation Course	50	10	40	2	2
3	Entrepreneurship	AEC008	III	Foundation Course	50	10	40	2	2
4	Information and Communication Technology-II	AEC009A	III	Foundation Course	50	10	40	2	2
5	Real Analysis	MATT41	II	Core	100	25	75	6	5
6	Analog and Digital IC Application	ELET41	II	Core	100	25	75	4	3
7	Photoshop	CSCT41	II	Core	100	25	75	4	3
8	Electronics-IV	ELEP41	II	Core Lab	50	10	40	2	2
9	Computer Science-IV	CSCP41	II	Core Lab	50	10	40	2	2

Table-5: B.Sc.(MECs) SEMESTER -V

S.NO	Course	Course Code	Part No	Type of the Paper	Total Marks	IA TEST	Sem End Exam	Teaching Hours	Credits
1	Ring Theory and Vector Calculus	MAT T51	II	Core	100	25	75	5	5

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2	Linear Algebra	MAT T52	II	Core	100	25	75	5	5
3	Analog and Digital Communications	ELE T51	II	Core	100	25	75	4	3
4	Microprocessor Systems	ELE T52	II	Core	100	25	75	4	3
5	Software Engineering	CSC T51	II	Core	100	25	75	4	3
6	Database Management Systems	CSC T52	II	Core	100	25	75	4	3
7	Analog and Digital Communications Lab	ELE P51 (Pr)	II	Core	50	10	40	2	2
8	Microprocessor Systems Lab	ELE P52 (Pr)	II	Core Lab	50	10	40	2	2
9	Software Engineering Lab	CSC P51 (Pr)	II	Core Lab	50	10	40	2	2
10	Database Management Systems Lab	CSC P52 (Pr)	II	Core Lab	50	10	40	2	2

Table-6: B.Sc. (MECs) SEMESTER - VI

S.NO	Course	Course Code	Part No	Type of the Paper	Total Marks	IA TEST	Sem End Exam	Teaching Hours	Credits
1	Numerical Analysis	MAT TEL61	II	Elective	100	25	75	5	5
2	Microcontroller and Interfacing	ELETEL61	II	Elective A	100	25	75	4	3
3	Power Electronics	ELETEL62	II	Elective B	100	25	75	4	3

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4	Microcontroller and Interfacing Lab	ELEPEL61	II	Elective A	50	10	40	2	2
5	Power Electronics Lab	ELEPEL62	II	Elective B	50	10	40	2	2
6	Operating Systems	CSCTEL61	II	Elective A	100	25	75	4	3
7	Web Technologies	CSCTEL62	II	Elective B	100	25	75	4	3
8	Computer Networks	CSCTEL63	II	Elective C	100	25	75	4	3
9	Operating Systems Lab	CSCPEL61	II	Elective A	50	10	40	2	2
10	Web Technologies Lab	CSCPEL62	II	Elective B	50	10	40	2	2
11	Computer Networks Lab	CSCPEL63	II	Elective C	50	10	40	2	2
11	Laplace Transforms and its Applications	MAT TCL61	II	Cluster A	100	25	75	5	5
12	Fourier Series and Fourier Transforms	MAT TCL62	II	Cluster A	100	25	75	5	5
13	Advanced Numerical Analysis	MAT TCL63	II	Cluster A	100	25	75	5	5
14	Discrete Mathematics	MAT TCL64	II	Cluster B	100	25	75	5	5
15	Graph Theory	MAT TCL65	II	Cluster B	100	25	75	5	5
16	Special Functions	MATTCL66	II	Cluster B	100	25	75	5	5
17	Embedded Systems Design	ELE TCL61	II	Cluster A	100	25	75	4	3

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18	Electronic Instrumentation	ELE TCL62	II	Cluster A	100	25	75	4	3
19	Embedded Systems Lab	ELE PCL61	II	Cluster A	50	10	40	2	2
20	Electronic Instrumentation Lab	ELE PCL62	II	Cluster A	50	10	40	2	2
21	Computer Networks	ELE TCL63	II	Cluster B	50	10	40	2	2
22	PC maintenance and Trouble shooting	ELE TCL64	II	Cluster B	50	10	40	2	2
23	Computer Networks Lab	ELE PCL63	II	Cluster B	100	25	75	4	3
24	PC maintenance and Trouble shooting Lab	ELE PCL64	II	Cluster B	100	25	75	4	3
25	Electronics- Project Work	ELE PWCL63	II	Cluster	100	25	75	4	3
26	Fundamentals of Data Science	CSCTCL 61	II	Cluster A	100	25	75	4	3
27	Big Data Technology	CSCTCL 62	II	Cluster A	100	25	75	4	3
28	Fundamentals of Data Science Lab	CSCPCL61	II	Cluster A	50	10	40	2	2
29	Big Data Technology Lab	CSCPCL62	II	Cluster A	50	10	40	2	2

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30	Cloud Computing	CSCTCL 63	II	Cluster B	50	10	40	2	2
31	Grid Computing	CSCTCL 64	II	Cluster B	100	25	75	4	3
32	Cloud Computing Lab	CSCPCL63	II	Cluster B	50	10	40	2	2
33	Grid Computing Lab	CSCPCL64	II	Cluster B	50	10	40	2	2
34	Mobile Computing	CSCTCL 65	II	Cluster C	100	25	75	4	3
35	Mobile Application Development	CSCTCL 66	II	Cluster C	100	25	75	4	3
36	Mobile Computing Lab	CSCPCL65	II	Cluster C	50	10	40	2	2
37	Mobile Application Development Lab	CSCPCL66	II	Cluster C	50	10	40	2	2
38	Computer Science- Project Work	CSC PWCL63	II	Cluster	100	25	75	2	5

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1	English-I	ENGT11A	I	Second Language	100	25	75	4	3
2	Telugu-I	TELT11	I	First Language	100	25	75	4	3
3	Hindi-I	HINT11	I	First Language	100	25	75	4	3
4	Environmental Studies	AEC002	III	Foundation Course	50	10	40	2	2
5	Communication and Soft Skills-I	AEC003A	II	Foundation Course	50	10	40	2	2
6	Differential Equations	MATT11A	II	Core	100	25	75	6	5
7	Basic Circuit Theory	ELET11A	II	Core	100	25	75	4	3
8	Programming in C	CSCT11A	II	Core	100	25	75	4	3
9	Electronics-I	ELEP11A (Pr)	II	Core	50	10	40	2	2
10	Programming in C - Lab	CSCP11A	II	Core	50	10	40	2	2

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Table-2: B.Sc.(MECs) SEMESTER - II

S.NO	Course	Course Code	Part No	Type of the Paper	Total Marks	IA TEST	Sem End Exam	Teaching Hours	Credits
1	English-II	ENGT21A	I	Second Language	100	25	75	4	3
2	Telugu-II	TELT21	I	First Language	100	25	75	4	3
3	Hindi-II	HINT21	I	First Language	100	25	75	4	3
4	Value Education	AEC 016	III	Foundation Course	50	10	40	2	2
5	Information and Communication Technology	AEC004	III	Foundation Course	50	10	40	2	2
6	Differential Equations, Number Theory & Three Dimensional Geometry	MATT21A	II	Core	100	25	75	6	5
7	Semiconductor Devices and Circuits	ELET21A	II	Core	100	25	75	4	3
8	Data Structures	CSCT21A	II	Core	100	25	75	4	3
9	Electronics-II	ELEP21A	II	Core Lab	50	10	40	2	2
10	Computer Science-II	CSCP21A	II	Core Lab	50	10	40	2	2

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Table-3: B.Sc.(MECs) SEMESTER - III

S.NO	Course	Course Code	Part No	Type of the Paper	Total Marks	IA TEST	Sem End Exam	Teaching Hours	Credits
1	Telugu-III	TELT01	I	First Language	100	25	75	4	3
2	Hindi-III	HINT01	I	First Language	100	25	75	4	3
3	Communication and Soft Skills-II	AEC006	III	Foundation Course	50	10	40	2	2
4	Communication and Soft Skills-III	AEC010	III	Foundation Course	50	10	40	2	2
5	Leadership Education	AEC011	III	Foundation Course	50	10	40	2	2
6	Abstract Algebra	MATT31	II	Core	100	25	75	6	5
7	Digital Electronics	ELET31	II	Core	100	25	75	4	3
8	Object Oriented Programming using JAVA	CSCT31	II	Core	100	25	75	4	3
9	Digital Electronics Lab	ELEP31(Pr)	II	Core Lab	50	10	40	2	2
10	Object Oriented Programming using JAVA Lab	CSCP31(Pr)	II	Core Lab	50	10	40	2	2

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S.NO	Course	Course Code	Part No	Type of the Paper	Total Marks	IA TEST	Sem End Exam	Teaching Hours	Credits
1	English-III	ENGT01	I	First Language	100	25	75	4	3
2	Analytical Skills	AEC007	III	Foundation Course	50	10	40	2	2
3	Entrepreneurship	AEC008	III	Foundation Course	50	10	40	2	2
4	Information and Communication Technology-II	AEC009A	III	Foundation Course	50	10	40	2	2
5	Real Analysis	MATT41	II	Core	100	25	75	6	5
6	Analog and Digital IC Application	ELET41	II	Core	100	25	75	4	3
7	Photoshop	CSCT41	II	Core	100	25	75	4	3
8	Electronics-IV	ELEP41	II	Core Lab	50	10	40	2	2
9	Computer Science-IV	CSCP41	II	Core Lab	50	10	40	2	2

Table-5: B.Sc.(MECs) SEMESTER -V

S.NO	Course	Course Code	Part No	Type of the Paper	Total Marks	IA TEST	Sem End Exam	Teaching Hours	Credits
1	Ring Theory and Vector Calculus	MAT T51	II	Core	100	25	75	5	5

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2	Linear Algebra	MAT T52	II	Core	100	25	75	5	5
3	Analog and Digital Communications	ELE T51	II	Core	100	25	75	4	3
4	Microprocessor Systems	ELE T52	II	Core	100	25	75	4	3
5	Software Engineering	CSC T51	II	Core	100	25	75	4	3
6	Database Management Systems	CSC T52	II	Core	100	25	75	4	3
7	Analog and Digital Communications Lab	ELE P51 (Pr)	II	Core	50	10	40	2	2
8	Microprocessor Systems Lab	ELE P52 (Pr)	II	Core Lab	50	10	40	2	2
9	Software Engineering Lab	CSC P51 (Pr)	II	Core Lab	50	10	40	2	2
10	Database Management Systems Lab	CSC P52 (Pr)	II	Core Lab	50	10	40	2	2

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S.NO	Course	Course Code	Part No	Type of the Paper	Total Marks	IA TEST	Sem End Exam	Teaching Hours	Credits
1	Numerical Analysis	MAT TEL61	II	Elective	100	25	75	5	5
2	Microcontroller and Interfacing	ELETEL61	II	Elective A	100	25	75	4	3
3	Power Electronics	ELETEL62	II	Elective B	100	25	75	4	3

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4	Microcontroller and Interfacing Lab	ELEPEL61	II	Elective A	50	10	40	2	2
5	Power Electronics Lab	ELEPEL62	II	Elective B	50	10	40	2	2
6	Operating Systems	CSCTEL61	II	Elective A	100	25	75	4	3
7	Web Technologies	CSCTEL62	II	Elective B	100	25	75	4	3
8	Computer Networks	CSCTEL63	II	Elective C	100	25	75	4	3
9	Operating Systems Lab	CSCPEL61	II	Elective A	50	10	40	2	2
10	Web Technologies Lab	CSCPEL62	II	Elective B	50	10	40	2	2
11	Computer Networks Lab	CSCPEL63	II	Elective C	50	10	40	2	2
11	Laplace Transforms and its Applications	MAT TCL61	II	Cluster A	100	25	75	5	5
12	Fourier Series and Fourier Transforms	MAT TCL62	II	Cluster A	100	25	75	5	5
13	Advanced Numerical Analysis	MAT TCL63	II	Cluster A	100	25	75	5	5
14	Discrete Mathematics	MAT TCL64	II	Cluster B	100	25	75	5	5
15	Graph Theory	MAT TCL65	II	Cluster B	100	25	75	5	5
16	Special Functions	MATTCL66	II	Cluster B	100	25	75	5	5
17	Embedded Systems Design	ELE TCL61	II	Cluster A	100	25	75	4	3

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18	Electronic Instrumentation	ELE TCL62	II	Cluster A	100	25	75	4	3
19	Embedded Systems Lab	ELE PCL61	II	Cluster A	50	10	40	2	2
20	Electronic Instrumentation Lab	ELE PCL62	II	Cluster A	50	10	40	2	2
21	Computer Networks	ELE TCL63	II	Cluster B	50	10	40	2	2
22	PC maintenance and Trouble shooting	ELE TCL64	II	Cluster B	50	10	40	2	2
23	Computer Networks Lab	ELE PCL63	II	Cluster B	100	25	75	4	3
24	PC maintenance and Trouble shooting Lab	ELE PCL64	II	Cluster B	100	25	75	4	3
25	Electronics- Project Work	ELE PWCL63	II	Cluster	100	25	75	4	3
26	Fundamentals of Data Science	CSCTCL 61	II	Cluster A	100	25	75	4	3
27	Big Data Technology	CSCTCL 62	II	Cluster A	100	25	75	4	3
28	Fundamentals of Data Science Lab	CSCPCL61	II	Cluster A	50	10	40	2	2
29	Big Data Technology Lab	CSCPCL62	II	Cluster A	50	10	40	2	2

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30	Cloud Computing	CSCTCL 63	II	Cluster B	50	10	40	2	2
31	Grid Computing	CSCTCL 64	II	Cluster B	100	25	75	4	3
32	Cloud Computing Lab	CSCPCL63	II	Cluster B	50	10	40	2	2
33	Grid Computing Lab	CSCPCL64	II	Cluster B	50	10	40	2	2
34	Mobile Computing	CSCTCL 65	II	Cluster C	100	25	75	4	3
35	Mobile Application Development	CSCTCL 66	II	Cluster C	100	25	75	4	3
36	Mobile Computing Lab	CSCPCL65	II	Cluster C	50	10	40	2	2
37	Mobile Application Development Lab	CSCPCL66	II	Cluster C	50	10	40	2	2
38	Computer Science- Project Work	CSC PWCL63	II	Cluster	100	25	75	2	5