

Subject Group Code and Subject Groups

Sr. No.	GROUP	Category	Breakup of Credits (Total 160)	
1	A	Humanities and Social Sciences including Management Courses (HSMC)	12	10
2	B	Basic Science Courses (BSC)	25	26
3	C	Engineering Science Courses including workshop, drawing, basics of electrical/mechanical/computer etc. (ESC)	24	26
4	D	Professional Core Courses (PCC)	48	53
5	E	Professional Elective Courses relevant to chosen specialization/branch (PEC)	18	18
6	F	Open subjects – Electives from other technical and /oremerging subjects (OEC)	18	12
7	G	Project work, seminar and internship in industry or appropriate work place/ academic and research institutions in India/abroad (PROJ)	15	15
8	H	Mandatory Courses (MC) [Environmental Sciences, Induction program, Indian Constitution, Essence of Indian Traditional Knowledge]	(non-credit)	
Total			160	160

As per AICTE guidelines

Syllabus Structure for First Year Engineering (Semester – I) wef 2017_18

Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	Theory		Practical		Total	
						ISE	ESE	ICA	ESE		
Applied Physics – I	B	3	-	-	3	40	60	-	-	100	3
Applied Chemistry – I	B	3	0	-	3	40	60	-	-	100	3
Applied Mathematics – I	B	3	1	-	4	40	60	-	-	100	4
Communicative English	A	3	-	-	3	40	60	-	-	100	3
Introduction to Civil Engineering and Mechanics	C	3	-	-	3	40	60	-	-	100	3
Introduction to Electrical Engineering	C	3	-	-	3	40	60	-	-	100	3
Workshop Practice – I	C	-	-	2	2	-	-	25	-	25	1
Applied Science Lab - I	B	-	-	*2	2	-	-	25	-	25	1
Introduction to Civil Engineering and Mechanics Lab	C	-	-	2	2	-	-	25	25(oral)	50	1
Introduction to Electrical Engineering Lab	C	-	-	2	2	-	-	25	25(oral)	50	1
Communicative English Lab	A	-	-	2	2	-	-	25	25(Oral)	50	1
		18	1	10	29	240	360	125	75	800	24

ISE: Internal Sessional Examination

ESE: End Semester Examination

ICA: Internal Continuous Assessment

As per AICTE guidelines

Syllabus Structure for First Year Engineering (Semester – II) wef 2017_18

Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
		Theory Hrs / week	Tutorials Hrs / week	Practicals Hrs / week	Total	Theory		Practical		Total	
						ISE	ESE	ICA	ESE		
Applied Physics – II	B	3	-	-	3	40	60	-	-	100	3
Applied Chemistry –II	B	3	0	-	3	40	60	-	-	100	3
Applied Mathematics – II	B	3	1	-	4	40	60	-	-	100	4
Introduction to ‘C’ Programming	C	3	-	-	3	40	60	-	-	100	3
Introduction to Mechanical Engineering and Engineering Drawing	C	3	-	-	3	40	60	-	-	100	3
Introduction to Electronics Engineering	C	3	-	-	3	40	60	-	-	100	3
Workshop Practice – II	C	-	-	2	2	-	-	25	-	25	1
Applied Science Lab - II	B	-	-	*2	2	-	-	25	-	25	1
Introduction to Mechanical Engineering and Engineering Drawing Lab	C	-	-	2	2	-	-	25	25(OR)	50	1
Introduction to ‘C’ Programming Lab	C	--	-	2	2	-	-	25	25(OR)	50	1
Introduction to Electronics Engineering Lab	C	-	-	2	2	-	-	25	25(OR)	50	1
		18	2	10	29	240	360	125	75	800	24

As per AICTE guidelines

Syllabus Structure for Second Year Engineering (Semester – III) (Civil) wef 2018_19

Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	Theory		Practical /Oral		Total	
						ISE	ESE	ICA	ESE		
Biology	B	3	1	-	4	40	60	-	-	100	4
Basic Electronics	C	3	-	-	3	40	60	-	-	100	3
Energy Science and Engineering	C	3	-	-	3	40	60	-	-	100	3
Surveying & Geomatics	D	3	-	-	3	40	60	-	-	100	3
Introduction to Civil Engineering	A	3	-	-	3	40	60	-	-	100	3
Basic Electronics Lab	C	-	-	2	2	-	-	25	25 OR	50	1
Surveying and Geomatics Lab	D	-	-	2	2	-	-	25	25 PR	50	1
Material, Testing & Evaluation I Lab	D	1	-	2	3	-	-	25	25 OR	50	2
		16	1	6	23	200	300	75	75	650	20

ISE: Internal Sessional Examination

ESE: End Semester Examination

ICA: Internal Continuous Assessment

As per AICTE guidelines

Syllabus Structure for Second Year Engineering (Semester – IV) (Civil) wef 2018_19

Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	Theory		Practical/Oral		Total	
						ISE	ESE	ICA	ESE		
Mathematic III	B	3	1	-	4	40	60	-	-	100	4
Computer Aided Civil Engineering Drawing	C	3	-	-	3	40	60	-	-	100	3
Introduction to Fluid Mechanics	D	3	-	-	3	40	60	-	-	100	3
Introduction to Solid Mechanics	D	3	-	-	3	40	60	-	-	100	3
Civil Engineering – Societal & Global Impact	A	3	-	-	3	40	60	-	-	100	3
Computer Aided Civil Engineering Lab	C	-	-	2	2	-	-	-	-	-	1
Introduction to Fluid Mechanics Lab	D	-	-	2	2	-	-	25	25 OR	50	1
Material, Testing & Evaluation II	D	-	-	2	2	-	-	25	25 OR	50	1
Engineering Geology	D	1	-	2	3	-	-	25	25 PR	50	2
Environmental Science*	H	-	-	-	-	20	80	-	-	100	-
		16	1	8	25	200	300	75	75	650	21

ISE: Internal Sessional Examination

ESE: End Semester Examination

ICA: Internal Continuous Assessment

*Only for students coming laterally (after diploma)

As per AICTE guidelines

Syllabus Structure for Third Year Engineering (Semester – V) (Civil) wef 2019_20

Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	Theory		Practical/Oral		Total	
						ISE	ESE	ICA	ESE		
Mechanics of Materials	D	3	-	-	3	40	60	-	-	100	3
Hydraulic Engineering	D	3	-	-	3	40	60	-	-	100	3
Geotechnical Engineering	D	3	-	-	3	40	60	-	-	100	3
Professional Elective Course – I	E	3	-	-	3	40	60	-	-	100	3
Open Elective Course – I	F	3	-	-	3	40	60	-	-	100	3
Hydraulic Engineering LAB	D	-	-	2	2	-	-	25	25 OR	50	1
Geotechnical Engineering LAB	D	-	-	2	2	-	-	25	25 OR	50	1
Disaster preparedness & Planning Management (LAB)	D	-	-	2	2	-	-	25	25 OR	50	1
Minor Project Stage I	G	-	-	6	6	-	-	50	-	50	3
Constitution of India	-	-	-	-	-	-	-	-	-	-	0
		15	0	12	27	200	300	125	75	700	21

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Note: There must be minimum four alternatives given for professional elective courses. The same must be minimum three for open elective course.

As per AICTE guidelines

Syllabus Structure for Third Year Engineering (Semester – VI) (Civil) wef 2019 _ 20

Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	Theory		Practical/Oral		Total	
						ISE	ESE	ICA	ESE		
Structural Engineering	D	3	-	-	3	40	60	-	-	100	3
Environmental Engineering	D	3	-	-	3	40	60	-	-	100	3
Transportation Engineering	D	3	-	-	3	40	60	-	-	100	3
Professional Elective course II	E	3	-	-	3	40	60	-	-	100	3
Open Elective Course II	F	3	-	-	3	40	60	-	-	100	3
Structural Engineering Lab	D	-	-	2	2	-	-	25	25 OR	50	1
Environmental Engineering Lab	D	-	-	2	2	-	-	25	25 OR	50	1
Transportation Engineering	D	-	-	2	2	-	-	25	-	25	1
Minor Project Stage II	G	-	-	6	6	-	-	50	25 OR	75	3
		15		12	27				75	700	21

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Note:

1. There must be minimum four alternatives given for professional elective courses. The same must be minimum three for open elective course.
2. Every student should undergo Summer Internship during Summer Vacation of at least THREE weeks duration. Credits for Summer Internship shall be included in Project (Stage – I) of Semester – VII.

As per AICTE guidelines

Syllabus Structure for Fourth Year Engineering (Semester – VII) wef 2020 - 21

Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	Theory		Practical/Oral		Total	
						ISE	ESE	ICA	ESE		
Hydrology & Water Resources Engineering	D	3	-	-	3	40	60	-	-	100	3
Professional Elective Course III	E	3	-	-	3	40	60	-	-	100	3
Professional Elective Course IV	E	3	-	-	3	40	60	-	-	100	3
Open Elective Course III	F	3	-	-	3	40	60	-	-	100	3
Hydrology & Water Resources Engineering LAB	D	-	-	2	2	-	-	25	25 OR	50	1
Construction Engineering & Management (LAB)	D	1	-	2	3	-	-	25	25 OR	50	2
Major Project Stage I	G	-	-	12	12	-	-	50	50 OR	100	6
Essence of India Traditional Knowledge		-	-	-	-	-	-	-	-	-	0
		13		16	29	160	240	100	100	600	21

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Note: There must be minimum four alternatives given for professional elective courses. The same must be minimum three for open elective course.

As per AICTE guidelines

Syllabus Structure for Fourth Year Engineering (Semester – VIII) (Civil) wef 2020 - 21

Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	Theory		Practical/Oral		Total	
						ISE	ESE	ICA	ESE		
Engineering Economy, Estimation & Costing	D	3	-	-	3	40	60	-	-	100	3
Professional Elective Course V	E	3	-	-	3	40	60	-	-	100	3
Professional Elective Course VI	E	3	-	-	3	40	60	-	-	100	3
Open Elective Course IV	F	3	-	-	3	40	60	-	-	100	3
Engineering Economy, Estimation & Costing LAB	D	-	-	2	2	-	-	25	25 OR	50	1
Remote sensing (LAB)	D	2	-	2	4	-	-	25	25 OR	50	3
Major Project Stage II	G	-	-	6	6	-	-	50	50 OR	100	3
		14	0	12	24	160	240	100	100	600	19

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Note: There must be minimum four alternatives given for professional elective courses. The same must be minimum three for open elective course.