

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon (M.S.)

Syllabus Structure for Fourth Year Engineering (Semester – VIII) (Mechanical Engineering) (w.e.f. 2021 – 22) AICTE

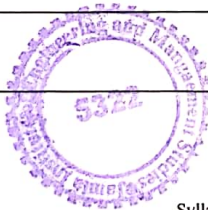
Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	Theory		Practical		Total	
						ISE	ESE	ICA	ESE		
Refrigeration & Air Conditioning	D	3	--	--	3	40	60	--	--	100	3
Professional Elective Course – V	E	3	--	--	3	40	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
Refrigeration & Air Conditioning Lab	D	--	--	2	2	--	--	25	25 (OR)	50	1
Finite Element Analysis & Simulation Lab	D	2	--	2	4	--	--	25	25 (PR)	50	3
Project	G	--	--	6	6	--	--	50	50 (OR)	100	3
		14	--	10	24	160	240	100	100	600	19

ISE: Internal Sessional Examination

ESE: End Semester Examination

ICA: Internal Continuous Assessment

Professional Elective Course – V	Professional Elective Course – VI	Open Elective Course – IV
1) Robotics 2) 3D printing 3) Renewable Energy Sources & Technology 4) Design of Transmission System	1) Total Quality Management 2) Automobile Engineering 3) Computational Fluid Dynamics 4) Gas Dynamics & Jet Propulsion	1) Entrepreneurship, Innovations & Startups 2) Industrial & System Engineering 3) Internet of Things 4) Artificial Intelligence



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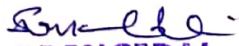
Syllabus for Fourth Year Engineering (Mechanical Engineering) w.e.f. 2021 – 22 AICTE

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

Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
						Theory		Practical/Ora l		Total	
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE		
PCC CE301: Mechanics of Materials	D	3	-	-	3	40	60	-	-	100	3
PCC CE302: Hydraulic Engineering	D	3	-	-	3	40	60	-	-	100	3
PCC CE304: Geotechnical Engineering	D	3	-	-	3	40	60	-	-	100	3
PEC Professional Elective Course – I	E	3	-	-	3	40	60	-	-	100	3
OEC Open Elective Course – I	F	3	-	-	3	40	60	-	-	100	3
PCC CE302: Hydraulic Engineering LAB	D	-	-	2	2	-	-	25	25 OR	50	1
PCC CE304: Geotechnical Engineering LAB	D	-	-	2	2	-	-	25	25 OR	50	1
PCC CE203: Disaster preparedness & Planning Management (LAB)	D	-	-	2	2	-	-	25	25 OR	50	1
Minor Project Stage I	G	-	-	6	6	-	-	50	-	50	3
MC III Constitution of India	-	-	-	-	-	-	-	-	-	-	0
		15	0	12	27	200	300	125	75	700	21

Professional Elective Course I	Open Elective Course I
Concrete Materials	Air Pollution Control Technology
Airport Planning and Design	Geographical information system
Repair & Rehabilitation of structures	Project management techniques





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Syllabus Structure for Third Year Engineering (Semester – VI) (Civil)

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		
PCC CE303 Structural Engineering	D	3	-	-	3	40	60	-	-	100	3
PCC CE306: Environmental Engineering	D	3	-	-	3	40	60	-	-	100	3
PCC CE307 Transportation Engineering	D	3	-	-	3	40	60	-	-	100	3
PEC Professional Elective course II	E	3	-	-	3	40	60	-	-	100	3
OEC Open Elective Course II	F	3	-	-	3	40	60	-	-	100	3
PCC CE 303 Structural Engineering Lab	D	-	-	2	2	-	-	25	25 OR	50	1
PCC CE 306 Environmental Engineering Lab	D	-	-	2	2	-	-	25	25 OR	50	1
PCC CE 307 Transportation Engineering Lab	D	-	-	2	2	-	-	25	-	25	1
Minor Project	G	-	-	6	6	-	-	50	25 OR	75	3
Internship	H	-	-	-	-	-	-	-	-	-	-
		15		12	27				75	700	21

Professional Elective Course II	Open Elective Course II
Building construction practice	Intelligent transportation system
Railway Engineering	Smart city planning
Construction Equipments and Automation	Numerical methods of analysis




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Syllabus Structure for Fourth Year Engineering (CIVIL) (Semester – VII)

Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	Theory		Practical/Ora l		Total	
						SE	EE	ICA	ESE		
PCC CE305 Hydrology & Water Resources Engineering	D	3	-	-	3	40	60	-	-	100	3
PEC Professional Elective Course III	E	3	-	-	3	40	60	-	-	100	3
PEC Professional Elective Course IV	E	3	-	-	3	40	60	-	-	100	3
OEC Open Elective Course III	F	3	-	-	3	40	60	-	-	100	3
PCC CE305 Hydrology & Water Resources Engineering LAB	D	-	-	2	2	-	-	25	25 OR	50	1
PCC CE308: Construction Engineering & Management (LAB)	D	1	-	2	3	-	-	25	25 OR	50	2
PROJ Major Project Stage I	G	-	-	12	12	-	-	50	50 OR	100	6
MC IV Essence of India Traditional Knowledge		-	-	-	-	-	-	-	-	-	0
		13		16	29	160	240	100	100	600	21

Professional Elective Course III	Professional Elective Course IV	Open Elective Course III
Remote Sensing	Prestressed Concrete	Solid and Hazardous Waste Management
Port and Harbor Engineering	Rural Sanitation	Geology for engineers
Watershed Management	Advanced Water Treatment Technology	Environmental Impact Assessment
Advanced steel structural analysis and design	Hydraulic Modeling	
	Geosynthetic engineering	



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Syllabus Structure for Fourth Year Engineering (CIVIL) (Semester – VII)

Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	Theory		Practical/Ora l		Total	
						ISE	ESE	ICA	ESE		
PCC CE305 Hydrology & Water Resources Engineering	D	3	-	-	3	40	60	-	-	100	3
PEC Professional Elective Course III	E	3	-	-	3	40	60	-	-	100	3
PEC Professional Elective Course IV	E	3	-	-	3	40	60	-	-	100	3
OEC Open Elective Course III	F	3	-	-	3	40	60	-	-	100	3
PCC CE305 Hydrology & Water Resources Engineering LAB	D	-	-	2	2	-	-	25	25 OR	50	1
PCC CE308: Construction Engineering & Management (LAB)	D	1	-	2	3	-	-	25	25 OR	50	2
PROJ Major Project Stage I	G	-	-	12	12	-	-	50	50 OR	100	6
MC IV Essence of India Traditional Knowledge		-	-	-	-	-	-	-	-	-	0
		13		16	29	160	240	100	100	600	21

Professional Elective Course III	Professional Elective Course IV	Open Elective Course III
Remote Sensing	Prestressed Concrete	Solid and Hazardous Waste Management
Port and Harbor Engineering	Rural Sanitation	Geology for engineers
Watershed Management	Advanced Water Treatment Technology	Environmental Impact Assessment
	Hydraulic Modeling	-
Advanced steel structural analysis and design	Geosynthetic engineering	



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Syllabus Structure for Final Year Engineering (Semester – VII) (Electrical) (w.e.f. 2020 – 21)

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		
Electrical Drives	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
Electrical Drives Lab	D	-	-	2	2	-	-	25	25(PR)	50	1
MATLAB and its applications	D	1	-	2	3	-	-	25	25(OR)	50	2
Project (Stage -I)	G	-	-	12	12	-	-	50	50(OR)	100	6
Essence of Indian Traditional Knowledge	H	-	-	-	-	-	-	-	-	-	-
		13		16	29	160	240	100	100	600	21

ISE: Internal Sessional Examination

ESE: End Semester Examination

ICA: Internal Continuous Assessment

Professional Elective Course – III		Professional Elective Course – IV		Open Elective Course – III	
1	Electrical Energy Conservation and Auditing	1	Power System Dynamics and Control	1	VLSI Design and Technology
2	Electrical Machines Modelling and Analysis	2	Power Electronics and Distributed Generation	2	Artificial Intelligence
3	Power Generation and Economics	3	Industrial Electrical Systems	3	Virtual Reality
4	Digital Control System	4	Power System Design Practice	4	Bio-Medical Instrumentation



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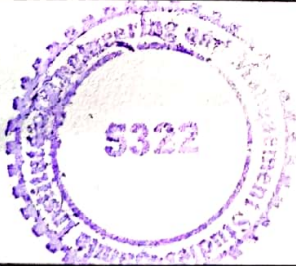
Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	Theory		Practical		Total	
						ISE	ESE	ICA	ESE		
Power System Protection	D	3	-	-	3	40	60	-	-	100	3
Professional Elective Course - V	E	3	-	-	3	40	60	-	-	100	3
Professional Elective Course -VI	E	3	-	-	3	40	60	-	-	100	3
Open Elective Course - IV	F	3	-	-	3	40	60	-	-	100	3
Power System Protection Lab	D	-	-	2	2	-	-	25	25(PR)	50	1
High Voltage Laboratory	D	2	-	2	4	-	-	25	25(OR)	50	3
Project	G	-	-	6	6	-	-	50	50(OR)	100	3
		14	0	10	24	160	240	100	100	600	19

ISE: Internal Sessional Examination

ESE: End Semester Examination

ICA: Internal Continuous Assessment

Professional Elective Course – V		Professional Elective Course – VI		Open Elective Course – IV	
1	Flexible AC Transmission System & Power Quality	1	Electric and Hybrid Vehicles	1	Digital Signal Processing
2	Power Converter Applications	2	Advanced Electric Drives	2	Embedded System
3	HVDC Transmission Systems	3	EHVAC Transmission Systems	3	Robotics
4	Power System Restructuring	4	Illumination Engineering	4	Cyber Security



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