

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

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 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 – V) (Mechanical Engineering) (w.e.f. 2020 – 21) 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		
Heat Transfer	D	3	--	--	3	40	60	--	--	100	3
Manufacturing Processes	D	3	--	--	3	40	60	--	--	100	3
Strength of Materials	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
Heat Transfer Lab	D	--	--	2	2	--	--	25	25 (PR)	50	1
Manufacturing Processes Lab	D	--	--	2	2	--	--	25	25 (OR)	50	1
Machine Drawing Lab	D	--	--	2	2	-	-	25	25 (OR)	50	1
Minor Project – I (Stage – I)	G	--	--	6	6	-	-	50	-	50	3
Constitution of India	H	--	--	--	--	--	--	--	--	--	0
		15	--	12	27	200	300	125	75	700	21

ISE: Internal Sessional Examination

ESE: End Semester Examination

ICA: Internal Continuous Assessment

Professional Elective Course – I	Open Elective Course – I
1) Instrumentation and Control 2) Process Planning and Tool Design 3) Energy Conservation & Management 4) Tribology	1) Electronic Devices 2) Object Oriented Programming 3) Introduction to Plastic Engineering 4) Industrial Safety Engineering



Syllabus Structure for Third Year Engineering (Semester – VI) (Mechanical Engineering) (w.e.f. 2020 – 21) AICTE

Syllabus for Third Year Engineering (Mechanical Engineering) w.e.f. 2020 – 21 AICTE

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Syllabus Structure for Third Year Engineering (Semester – V) (Electrical) (w. e. f. 2020 – 21)(As per AICTE Guidelines)

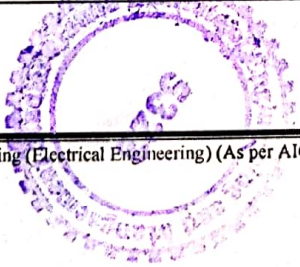
Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	Theory		Practical		Total	
						ISE	ESE	ICA	ESE		
Power Electronics	D	3	-	-	3	40	60	-	-	100	3
Power System-I	D	3	-	-	3	40	60	-	-	100	3
Electromagnetic Field	D	3	-	-	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
Power Electronics Lab	D	-	-	2	2	-	-	25	25(OR)	50	1
Power System-I Lab	D	-	-	2	2	-	-	25	25(PR)	50	1
Electronic Design Laboratory	D	-	-	2	2	-	-	25	25(OR)	50	1
Minor Project (Stage-I)	G	-	-	6	6	-	-	50	-	50	3
Constitution of India		-	-	-	-	-	-	-	-	-	-
		15	0	12	27	200	300	125	75	700	21

ISE: Internal Sessional Examination

ESE: End Semester Examination

ICA: Internal Continuous Assessment

Professional Elective Course – I		Open Elective Course – I	
1	Signals and Systems	1	Fluid Mechanics and Machinery
2	Electrical Installation, Estimation and Distribution	2	Electronics Measurement
3	Solid State Devices and Circuits	3	Internet of Things
4	Advance Measurement and Instrumentation	4	Industrial Safety



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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	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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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		
Kinematics and Theory of Machines	D	3	--	--	3	40	60	--	--	100	3
Manufacturing Technology	D	3	--	--	3	40	60	--	--	100	3
Material 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
Kinematics and Theory of Machines Lab	D	--	--	2	2	--	--	25	25 (OR)	50	1
Manufacturing Technology Lab	D	--	--	2	2	--	--	25	25 (OR)	50	1
Material Engineering Lab	D	--	--	2	2	--	--	25	-	25	1
Minor Project	G	--	--	6	6	-	-	50	25 (OR)	75	3
Internship*	H	-	-	-	-	-	-	-	-	-	-
		15	--	12	27	200	300	125	75	700	21

ISE: Internal Sessional Examination

ESE: End Semester Examination

ICA: Internal Continuous Assessment

Professional Elective Course – II	Open Elective Course – II
1) Mechanical Transmission Systems 2) Mechanical Estimation and Costing 3) Internal Combustion Engine 4) Solid Mechanics	1) Software Engineering 2) Introduction to Data Structure 3) Introduction to Micro-Electro-Mechanical Systems (MEMS) 4) Piping Engineering

NOTE: * Internship is a mandatory and non-credit course. It shall be during summer vacation after Semester – VI. The satisfactory completion of Internship should be submitted to University at the end of Semester – VIII.



Syllabus for Third Year Engineering (Mechanical Engineering) w.e.f. 2020 – 21 AICTE


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Syllabus Structure for Third Year Engineering (Semester – VI) (Electrical) (w. e. f. 2020 – 21)(As per AICTE Guidelines)

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		
Control System	D	3	-	-	3	40	60	-	-	100	3
Microprocessor and Microcontroller	D	3	-	-	3	40	60	-	-	100	3
Power System-II	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
Control System Lab	D	-	-	2	2	-	-	25	25(OR)	50	1
Microprocessor and Microcontroller Lab	D	-	-	2	2	-	-	25	25(PR)	50	1
Power System-II Lab	D	-	-	2	2	-	-	25	-	25	1
Minor Project	G	-	-	6	6	-	-	50	25(OR)	75	3
Internship – II*	H	-	-	-	-	-	-	-	-	-	-
		15	0	12	27	200	300	125	75	700	21

ISE: Internal Sessional Examination

ESE: End Semester Examination

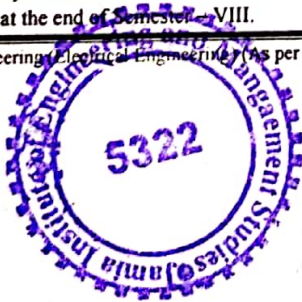
ICA: Internal Continuous Assessment

Professional Elective Course – II		Open Elective Course – II	
1	Industrial Automation	1	Power Plant Engineering
2	Advance Power Electronics	2	Linear Integrated Circuits and Applications
3	Non-Conventional Energy System	3	Digital Logic and State Machine Design
4	Electrical Machine Design	4	Heat Transfer and Refrigeration

* Internship-II is a mandatory and non-credit course. It shall be during summer vacation after Semester – VI. The satisfactory completion of Internship should be submitted to University at the end of Semester – VIII.

Syllabus for Third Year Engineering (Electrical Engineering) (As per AICTE Guidelines) w e f 2020 – 21

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Syllabus Structure for Fourth Year Engineering (Semester – VII) (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		
Design of Machine Elements	D	3	--	--	3	40	60	--	--	100	3
Professional Elective Courses – 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
Design of Machine Elements Lab	D	--	--	2	2	--	--	25	25 (OR)	50	1
Computer Aided Design Lab	D	1	--	2	3	--	--	25	25 (PR)	50	2
Project (Stage – I)	G	--	--	12	12	--	--	50	50 (OR)	100	6
Essence of Indian Traditional Knowledge	H	--	--	--	--	--	--	--	--	--	0
		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) Automation in Manufacturing 2) Operation Research 3) Electrical & Hybrid Vehicles 4) Mechanical Vibration	1) Mechatronic Systems 2) Advanced Machining Processes 3) Power Plant Engineering 4) Product Design	1) Machinery Condition Monitoring 2) Data Base Management 3) Microprocessor & Microcontrollers in automation 4) Research Methodology



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

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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 I		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
Advanced steel structural analysis and design	Hydraulic Modeling	
	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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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



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

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Syllabus Structure for Fourth Year Engineering (CIVIL) (Semester – VIII) (Civil)

Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
		Theory Hrs / week	Tutoria l Hrs / week	Practi cal Hrs / week	Total	Theory		Practical/Or al		Total	
						ISE	ESE	ICA	ESE		
PCC CE309: Engineering Economy, Estimation & Costing	D	3	-	-	3	40	60	-	-	100	3
PEC Professional Elective Course V	E	3	-	-	3	40	60	-	-	100	3
PEC Professional Elective Course VI	E	3	-	-	3	40	60	-	-	100	3
OEC Open Elective Course IV	F	3	-	-	3	40	60	-	-	100	3
PCC CE309: Engineering Economy, Estimation & Costing LAB	D	-	-	2	2	-	-	25	25 OR	50	1
PCC CE201 Advanced Surveying (LAB)	D	2	-	2	4	-	-	25	25 OR	50	3
PROJ Major Project Stage II	G	-	-	6	6	-	-	50	50 OR	100	3
		14	0	10	24	160	240	100	100	600	19

Professional Elective Course V	Professional Elective Course VI	Open Elective Course IV
Advanced Concrete Structural Analysis and Design	Design of hydraulic structures	Operations Research methods and engineering applications
Hydraulic Machines	Bridges engineering	Biotechnology of waste treatment
Advanced wastewater engineering	Theory of elasticity and plasticity	Internet of things
Foundation Engineering	Industrial wastewater engineering	Interior Design
	Ground improvement techniques	



Syllabus Structure for Final Year Engineering (Semester – VIII) (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		
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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Syllabus Structure for Final Year Engineering (Semester – VII) (Computer / Information Technology) (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		
Compiler Design	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
Compiler Design Lab	D	-	-	2	2	-	-	25	25 (PR)	50	1
Advanced Technology Lab - I	D	1	-	2	3	-	-	25	25 (PR)	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	Machine Learning	1	Data Mining	1	Human Resource Management
2	Internet of Things	2	Distributed Systems	2	Industrial Engineering
3	Ad-Hoc and Sensor Networks	3	Cloud Computing	3	Quantitative Reasoning and Problem Solving
4	Virtual Reality	4	Human Computer Interaction	4	Entrepreneurship Development

Syllabus Structure for Final Year Engineering (Semester – VIII) (Computer / Information Technology) (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		
Cyber Security	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
Cyber Security Lab	D	-	-	2	2	-	-	25	25 (OR)	50	1
Advanced Technology Lab - II	D	2	-	2	4	-	-	25	25 (PR)	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	Soft Computing	1	Data Analytics	1	Ethical Practices in Business
2	Advanced Operating Systems	2	Blockchain	2	Total Quality Management
3	Mobile Computing	3	Quantum Computing	3	Logical Reasoning and Problem Solving
4	Business Analytics and Intelligence	4	Information Retrieval	4	Robotics