

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

**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	1) Electronic Devices
2) Process Planning and Tool Design	2) Object Oriented Programming
3) Energy Conservation & Management	3) Introduction to Plastic Engineering
4) Tribology	4) Industrial Safety Engineering



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

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

**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

Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
						Theory		Practical		Total	
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	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

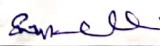
ICA: Internal Continuous Assessment

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

Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
						Theory		Practical/Oral		Total	
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	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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 Abbottabad District, Mandi Bahauddin (Punjab)

## 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 Course Assessment					

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)



*S. S. Chaudhari*  
 PRINCIPAL  
 Jamia Institute of Engineering  
 And Management Studies  
 Akkalkuwa Dist. Nandurbar (M.S.)

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

Synopsis 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	1) Mechatronic Systems	1) Machinery Condition Monitoring
2) Operation Research	2) Advanced Machining Processes	2) Data Base Management
3) Electrical & Hybrid Vehicles	3) Power Plant Engineering	3) Microprocessor & Microcontrollers in automation
4) Mechanical Vibration	4) Product Design	4) Research Methodology



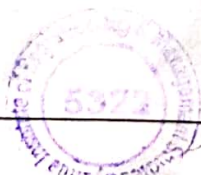
Syllabus for Fourth Year Engineering (Mechanical Engineering) w.e.f. 2021 – 22 AICTE

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

Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
						Theory		Practical/Ora l		Total	
		Theor y Hrs / week	Tutori al Hrs / week	Practi cal Hrs / week	Tot al	IS E	ES E	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)**

Syllabus Structure for Final Year Engineering (Semester - IV) (Elective - I)											
Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
						Theory		Practical		Total	
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	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
		ESE: End Semester Examination				ICA: Internal Continuous Assessment					

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



*Saravali*  
PRINCIPAL  
Jamia Institute of Engineering  
And Management Studies  
Akkalkuwa Dist. Nandurbar(M.S.)

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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

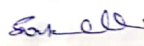
ESE: End Semester Examination

ICA: Internal Continuous Assessment

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

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

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

Syllabus 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



*Soukendra*  
PRINCIPAL  
Jamia Institute of Engineering  
And Management Studies  
A/kalkuwa Dist. Nandurbar(M.S.)

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

(As per AICTE Guidelines)											
Name of the Course	Group	Teaching Scheme				Evaluation Scheme					Credits
						Theory		Practical		Total	
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE		
Database Management Systems **	D	3	-	-	3	40	60	-	-	100	3
Software Engineering **	D	3	-	-	3	40	60	-	-	100	3
Formal Language and Automata Theory**	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
Database Management Systems Lab**	D	-	-	2	2	-	-	25	25 (PR)	50	1
Software EngineeringLab**	D	-	-	2	2	-	-	25	25 (OR)	50	1
Web Programming Language Lab **	D	-	-	2	2	-	-	25	25 (PR)	50	1
Minor Project (Stage – I) **	G	-	-	6	6	-	-	50	-	50	3
Constitution of India **	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 – I		Open Elective Course – I	
1	Artificial Intelligence **	1	Operations Research**
2	Advanced Computer Architecture **	2	Renewable Energy Sources **
3	Computer Graphics	3	Cyber Law and Ethics**
4	Information Theory and Coding	4	E-waste Management**

\*\* Common subjects with T.E. I.T.

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

(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		
Operating Systems**	D	3	-	-	3	40	60	-	-	100	3
Computer Networks**	D	3	-	-	3	40	60	-	-	100	3
Design and Analysis of Algorithms**	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
Operating Systems Lab**	D	-	-	2	2	-	-	25	25 (PR)	50	1
Computer Networks Lab**	D	-	-	2	2	-	-	25	25 (PR)	50	1
Design and Analysis of Algorithms 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	Neural Networks **	1	Project Management**
2	Embedded Systems**	2	Managing Innovation and Entrepreneurship**
3	Image Processing	3	Supply Chain Management-Planning**
4	Software Metrics & Quality Assurance	4	Information Sources and Literacy**

\* 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.

\*\* Common subjects with T.E. I.T.

**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		Practical		Total	
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	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



JAMIA ISLAMIA ISHAATUL ULOOM'S  
**JAMIA INSTITUTE OF ENGINEERING  
& MANAGEMENT STUDIES**  
AKKALKUWA, DIST. NANDURBAR (M.S.) 425415

JIEMS/Est/10-11/

Dt:15.07.2023

**CIRCULAR**

Students are allowed to give their choices of selecting their elective courses as per University norms of choice-based credit system. However, the minimum number of students opting for a particular subject shall not be less than 20. The final decision of offering the subjects is at the discretion of Department Committee. Necessary awareness on available choice of courses is to be created among students.

Therefore, heads of the departments are directed to make appropriate registration forms mentioning the names of Professional Electives and Professional Open Electives in odd and even semester and finalize accordingly. The list of finalized subjects along with the names of students and PRN shall be forwarded to Registrar, JIEMS and same shall be informed to students on or before 22-07-2023.

Proforma:

Name of student:

Year of Study:

PRN Number:

Branch:

Subjects opted may be indicated in following table

Type of Elective	Name of Elective	
	ODD Semester	Even Semester
Professional Elective		
Professional Elective		
Open Elective		

Signature of Student



*[Handwritten Signature]*

**Principal**

Jamia Institute of Engineering  
and Management Studies,  
Akkalkuwa, Dist. Nandurbar 425415

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

**Department of Mechanical Engineering.**

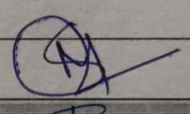
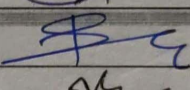
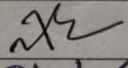
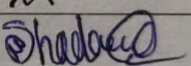
**ELECTIVE COURSE SECTION**

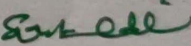
Date: 17 / 08 / 2023

Academic Year: 2023-24

Class: T.E. Mechanical

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	Tribology	Internal Combustion Engine
Open Elective Course	Industrial Safety Engineering	Piping Engineering

Sr. No	Name Of Committee Member	Designation	Sign
1	Prof. Shaikh Moin	HOD	
2	Prof. Nikhil Patel	Academic Coordinator	
3	Prof. Khatik Imran	Class Teacher	
4	Prof. D.V. Bhadane	Member	



Principal

JIEMS Akkalkuwa

**PRINCIPAL**

**List of Elective as per Syllabus Structure for Third Year Engineering (Semester - V)**

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

**List of Elective as per Syllabus Structure for Third Year Engineering (Semester - VI)**

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

**Note:** Minimum Number of students of opting for particular subject shall not less than 20.

Once you select the Elective Course it will not Change.

Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

Department of Mechanical Engineering.

**ELECTIVE COURSE REQUEST FORM**

Date: 10/08/2023

Name of Students: Umed Khan

Year of Study : 2023 - 24 Class: T.E

Branch : Mechanical PRN Number: 2021013400318907

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	<u>Tribology</u>	<u>Internal Combustion Engine</u>
Open Elective Course	<u>Industrial Safety Engineering</u>	<u>Piping Engineering</u>

Umed Khan  
Signature of Students

Name: Umed Khan

**List of Elective as per Syllabus Structure for Third Year Engineering (Semester – V)**

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

**List of Elective as per Syllabus Structure for Third Year Engineering (Semester – VI)**

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

**Note:** Minimum Number of students of opting for particular subject shall not less than 20.

Once you select the Elective Course it will not Change.

Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

Department of Mechanical Engineering.

**ELECTIVE COURSE REQUEST FORM**

Date: 14/08/2023

Name of Students: Sedat Inayat Alimamach

Year of Study : 2023 - 2024

Class: T.E.

Branch : Mechanical

PRN Number: 2021015400318923

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	<u>Tribology</u>	<u>Internal Combustion Engine</u>
Open Elective Course	<u>Industrial Safety Engineering</u>	<u>Piping Engineering.</u>

Sedat  
Signature of Students

Name: Sedat Inayat

**List of Elective as per Syllabus Structure for Third Year Engineering (Semester – V)**

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

**List of Elective as per Syllabus Structure for Third Year Engineering (Semester – VI)**

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

**Note:** Minimum Number of students of opting for particular subject shall not less than 20.  
Once you select the Elective Course it will not Change.  
Final Decision of offering the Elective Course is at the Discretion of Department Committee.

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon (M.S.)  
Syllabus Structure for Third Year Engineering (Semester – V) (Mechanical Engineering) (w.e.f. 2020 – 21) AICTE

Name of the Course	Group	Teaching Scheme			Total	Evaluation Scheme				Credits	
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week		Theory		Practical			
						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
ISE: Internal Sessional Examination		15	--	12	27	200	300	125	75	700	21
ESE: End Semester Examination		ESE: End Semester Examination			ICA: Internal Continuous Assessment						

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

Name of the Course	Group	Teaching Scheme			Evaluation Scheme					Credits	
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	Theory		Practical			
						ISE	ESE	ICA	ESE		Total
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.

# Jamia Institute of Engineering and Management Studies, Akkalkuwa.

Department of Mechanical Engineering.

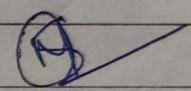
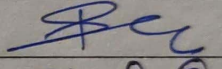
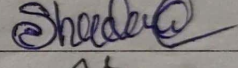
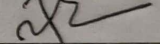
## ELECTIVE COURSE SECTION

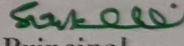
Date: 24 /07 / 2023

Academic Year: 2023-24

Class: B.E. Mechanical

Types Of Elective Course	Name Of Elective Course	
	ODD Semester (Sem VII)	Even Semester (Sem VIII)
Professional Elective Course	Operation Research	Renewable Energy Sources & Technology
* Professional Elective Course	Power Plant Engineering	Automobile Engineering
Open Elective Course	Research Methodology	Entrepreneurship, Innovations & Startups

Sr. No	Name Of Committee Member	Designation	Sign
1	Prof. Shaikh Moin	HOD	
2	Prof. Nikhil Patel	Academic Coordinator	
3	Prof. D.V. Bhadane	Class Teacher	
4	Prof. Khatik Imran	Member	

  
Principal

JIEMS Akkalkuwa

**PRINCIPAL**

**List of Elective as per Syllabus Structure for Fourth Year Mech. Engineering (Semester - VII)**

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

**List of Elective as per Syllabus Structure for Fourth Year Mech. Engineering (Semester – VIII)**

Professional Elective Course – VI	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

**Note:** Minimum Number of students of opting for particular subject shall not less than 20.  
Once you select the Elective Course it will not Change.  
Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

Department of Mechanical Engineering.

**ELECTIVE COURSE REQUEST FORM**

Date: 19/07/2023

Name of Students: MD AABID

Year of Study : 2023-24

Class: B.E

Branch : MECHANICAL

PRN Number: 2021015400319652

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	OR	RES
Professional Elective Course	PPE	AE
Open Elective Course	RM	EIS

Aabil  
Signature of Students

Name: MD AABID

**List of Elective as per Syllabus Structure for Fourth Year Mech. Engineering (Semester – VII)**

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

**List of Elective as per Syllabus Structure for Fourth Year Mech. Engineering (Semester – VIII)**

Professional Elective Course – VI	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

**Note:** Minimum Number of students of opting for particular subject shall not less than 20.  
Once you select the Elective Course it will not Change.

Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

Department of Mechanical Engineering.

**ELECTIVE COURSE REQUEST FORM**

Date: 18/07/2023

Name of Students: Md Taseer

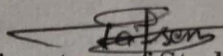
Year of Study : 2023/24

Class: B.E

Branch : Mech.

PRN Number: 2021015400319594

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	OR	RES
Professional Elective Course	PPE	AE
Open Elective Course	RM	ESS.

  
Signature of Students

Name: Md Taseer

**List of Elective as per Syllabus Structure for Fourth Year Mech. Engineering (Semester – VII)**

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

**List of Elective as per Syllabus Structure for Fourth Year Mech. Engineering (Semester – VIII)**

Professional Elective Course – VI	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

Note: Minimum Number of students of opting for particular subject shall not less than 20.

Once you select the Elective Course it will not Change.

Final Decision of offering the Elective Course is at the Discretion of Department Committee.

## 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
					Total	Theory		Practical		Total	
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week		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

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			
						ISE	ESE	ICA	ESE		Total
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	Renewable Energy Sources & Technology Design of Transmission System	1) Total Quality Management	Gas Dynamics & Jet Propulsion	1) Entrepreneurship, Innovations & Startups	Industrial & System Engineering Internet of Things Artificial Intelligence
2) 3D printing		2) Automobile Engineering		2) Industrial & System Engineering	
3) Renewable Energy Sources & Technology		3) Computational Fluid Dynamics		3) Internet of Things	
4) Design of Transmission System		4) Gas Dynamics & Jet Propulsion		4) Artificial Intelligence	

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

Department of Civil Engineering

**ELECTIVE COURSE REQUEST FORM**

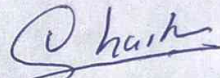
Date: 14/08/2023

Name of Student: Shaikh Umair Zaidul Abeddin

Year of Study: 2022-24 Class: T.E

Branch: Civil

Types Of Elective Course	Name Of Elective Course	
	Semester - V	Semester - VI
Professional Elective Course	<u>CM</u>	<u>BCP</u>
Open Elective Course	<u>PMT</u>	<u>SLP</u>

  
Signature of Student

**List of Elective as per Syllabus Structure for Third Year Engineering (Semester – V)**

Professional Elective Course – I	Open Elective Course – I
1)Concrete Materials 2)Airport Planning and Design 3)Repair & Rehabilitation of structures	1)Air Pollution Control Technology 2)Geographical information system 3)Project management techniques

**List of Elective as per Syllabus Structure for Third Year Engineering (Semester – VI)**

Professional Elective Course – II	Open Elective Course – II
1)Building construction practice 2)Railway Engineering 3)Construction Equipments and Automation	1)Intelligent transportation system 2)Smart city planning 3)Numerical methods of analysis

**Note:** Minimum Number of students of opting for particular subject shall not less than 20.  
Once you select the Elective Course it will not Change.  
Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

Department of Civil Engineering

**ELECTIVE COURSE REQUEST FORM**

Date: 14/8/24

Name of Student: Sayed Oves Zubair

Year of Study: 2023-24 Class: T.E.

Branch: CIVIL

Types Of Elective Course	Name Of Elective Course	
	Semester - V	Semester - VI
Professional Elective Course	CM	BCP
Open Elective Course	PMT	SCP

Oves  
Signature of Student

List of Elective as per Syllabus Structure for Third Year Engineering (Semester – V)

Professional Elective Course – I	Open Elective Course – I
1)Concrete Materials 2)Airport Planning and Design 3)Repair & Rehabilitation of structures	1)Air Pollution Control Technology 2)Geographical information system 3)Project management techniques

List of Elective as per Syllabus Structure for Third Year Engineering (Semester – VI)

Professional Elective Course – II	Open Elective Course – II
1)Building construction practice 2)Railway Engineering 3)Construction Equipments and Automation	1)Intelligent transportation system 2)Smart city planning 3)Numerical methods of analysis

**Note:** Minimum Number of students of opting for particular subject shall not less than 20.  
Once you select the Elective Course it will not Change.  
Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

Department of Civil Engineering

**ELECTIVE COURSE REQUEST FORM**

Date: 18/08/23

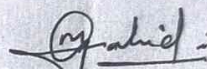
Name of Student: Makrani Jahid Husen Jakir Husen

Year of Study: 2023-24

Class: T.E

Branch: \_\_\_\_\_

Types Of Elective Course	Name Of Elective Course	
	Semester - V	Semester - VI
Professional Elective Course	CM	BCP
Open Elective Course	PMT	SCP

  
Signature of Student

**List of Elective as per Syllabus Structure for Third Year Engineering (Semester – V)**

Professional Elective Course – I	Open Elective Course – I
1)Concrete Materials 2)Airport Planning and Design 3)Repair & Rehabilitation of structures	1)Air Pollution Control Technology 2)Geographical information system 3)Project management techniques

**List of Elective as per Syllabus Structure for Third Year Engineering (Semester – VI)**

Professional Elective Course – II	Open Elective Course – II
1)Building construction practice 2)Railway Engineering 3)Construction Equipments and Automation	1)Intelligent transportation system 2)Smart city planning 3)Numerical methods of analysis

**Note:** Minimum Number of students of opting for particular subject shall not less than 20.  
Once you select the Elective Course it will not Change.  
Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

**Department of Civil Engineering**

**ELECTIVE COURSE REQUEST FORM**

Date: 12/08/2023

Name of Student: Mohammad Amin Patel

Year of Study: 2023-24 Class: T.E Civil

Branch: Civil

Types Of Elective Course	Name Of Elective Course	
	Semester - V	Semester - VI
Professional Elective Course	CM	BCP
Open Elective Course	PMT	SCP



Signature of Student

List of Elective as per Syllabus Structure for Third Year Engineering (Semester - V)

Professional Elective Course - I	Open Elective Course - I
1)Concrete Materials 2)Airport Planning and Design 3)Repair & Rehabilitation of structures	1)Air Pollution Control Technology 2)Geographical information system 3)Project management techniques

List of Elective as per Syllabus Structure for Third Year Engineering (Semester - VI)

Professional Elective Course - II	Open Elective Course - II
1)Building construction practice 2)Railway Engineering 3)Construction Equipments and Automation	1)Intelligent transportation system 2)Smart city planning 3)Numerical methods of analysis

**Note:** Minimum Number of students of opting for particular subject shall not less than 20.  
Once you select the Elective Course it will not Change.  
Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

Department of Civil Engineering

**ELECTIVE COURSE REQUEST FORM**

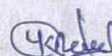
Date: 16/8/2023

Name of Student: Rahase Yogita Kushal

Year of Study: 2023-2024 Class: T.E

Branch: Civil

Types Of Elective Course	Name Of Elective Course	
	Semester - V	Semester - VI
Professional Elective Course	CM	BCP
Open Elective Course	PM T	SCP

  
Signature of Student

List of Elective as per Syllabus Structure for Third Year Engineering (Semester – V)

Professional Elective Course – I	Open Elective Course – I
1)Concrete Materials 2)Airport Planning and Design 3)Repair & Rehabilitation of structures	1)Air Pollution Control Technology 2)Geographical information system 3)Project management techniques

List of Elective as per Syllabus Structure for Third Year Engineering (Semester – VI)

Professional Elective Course – II	Open Elective Course – II
1)Building construction practice 2)Railway Engineering 3)Construction Equipments and Automation	1)Intelligent transportation system 2)Smart city planning 3)Numerical methods of analysis

**Note:** Minimum Number of students of opting for particular subject shall not less than 20.  
Once you select the Elective Course it will not Change.  
Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

Department of Civil Engineering

**ELECTIVE COURSE REQUEST FORM**

Date: 18/7/23

Name of Students: KHAN AZMAN

Year of Study: 2023-24 Class: BE

Branch: CIVIL

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	<u>WISQ</u>	<u>ACSD</u>
Professional Elective Course	<u>PC</u>	<u>BE</u>
Open Elective Course	<u>SHWM</u>	<u>TD</u>

Signature of Students

Name: KHAN AZMAN

List of Elective as per Syllabus Structure for Fourth Year Civil Engineering (Semester –VII)

Professional Elective Course – III	Professional Elective Course – IV	Open Elective Course – III
1) Remote Sensing 2) Port and Harbor Engineering 3) Watershed Management 4) Advanced steel structural analysis and design	1) Prestressed Concrete 2) Rural Sanitation 3) Advanced Water Treatment Technology 4) Hydraulic Modeling 5) Geosynthetic engineering	1) Solid and Hazardous Waste Management 2) Geology for engineers 3) Environmental Impact Assessment

List of Elective as per Syllabus Structure for Fourth Year Civil Engineering (Semester- VIII)

Professional Elective Course – V	Professional Elective Course – VI	Open Elective Course – IV
1) Advanced Concrete Structural Analysis and Design 2) Hydraulic Machines 3) Advanced wastewater engineering 4) Foundation Engineering	1) Design of hydraulic structures 2) Bridges engineering 3) Theory of elasticity and plasticity 4) Industrial wastewater engineering 5) Ground improvement techniques	1) Operations Research methods and engineering applications 2) Biotechnology of waste treatment 3) Internet of things 4) Interior Design

Note: Minimum Number of students of opting for particular subject shall not less than 20.

Once you select the Elective Course it will not Change.

Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

Department of Civil Engineering

**ELECTIVE COURSE REQUEST FORM**

Date: 19/07/2023

Name of Students: Valri Rahul Shidya

Year of Study: 2023-24 Class: B.E Civil

Branch: Civil

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	WSM	AESAD.
Professional Elective Course	PC	BE
Open Elective Course	SHWM	ID

Signature of Students

Name: Valri Rahul Shidya

List of Elective as per Syllabus Structure for Fourth Year Civil Engineering (Semester - VII)

Professional Elective Course - III	Professional Elective Course - IV	Open Elective Course - III
1) Remote Sensing 2) Port and Harbor Engineering 3) Watershed Management 4) Advanced steel structural analysis and design	1) Prestressed Concrete 2) Rural Sanitation 3) Advanced Water Treatment Technology 4) Hydraulic Modeling 5) Geosynthetic engineering	1) Solid and Hazardous Waste Management 2) Geology for engineers 3) Environmental Impact Assessment

List of Elective as per Syllabus Structure for Fourth Year Civil Engineering (Semester - VIII)

Professional Elective Course - V	Professional Elective Course - VI	Open Elective Course - IV
1) Advanced Concrete Structural Analysis and Design 2) Hydraulic Machines 3) Advanced wastewater engineering 4) Foundation Engineering	1) Design of hydraulic structures 2) Bridges engineering 3) Theory of elasticity and plasticity 4) Industrial wastewater engineering 5) Ground improvement techniques	1) Operations Research methods and engineering applications 2) Biotechnology of waste treatment 3) Internet of things 4) Interior Design

Note: Minimum Number of students of opting for particular subject shall not less than 20.

Once you select the Elective Course it will not Change.

Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

Department of Civil Engineering

**ELECTIVE COURSE REQUEST FORM**

Date: 18/7/23.

Name of Students: Badgujar Sagar

Year of Study: 2023-24 Class: BE

Branch: Civil Engg.

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	WSM	ACSAD
Professional Elective Course	PC	BE
Open Elective Course	SPWM	ID.

Signature of Students

Name: Badgujar Sagar

List of Elective as per Syllabus Structure for Fourth Year Civil Engineering (Semester –VII)

Professional Elective Course – III	Professional Elective Course – IV	Open Elective Course – III
1) Remote Sensing 2) Port and Harbor Engineering 3) Watershed Management 4) Advanced steel structural analysis and design	1) Prestressed Concrete 2) Rural Sanitation 3) Advanced Water Treatment Technology 4) Hydraulic Modeling 5) Geosynthetic engineering	1) Solid and Hazardous Waste Management 2) Geology for engineers 3) Environmental Impact Assessment

List of Elective as per Syllabus Structure for Fourth Year Civil Engineering (Semester- VIII)

Professional Elective Course – V	Professional Elective Course – VI	Open Elective Course – IV
1) Advanced Concrete Structural Analysis and Design 2) Hydraulic Machines 3) Advanced wastewater engineering 4) Foundation Engineering	1) Design of hydraulic structures 2) Bridges engineering 3) Theory of elasticity and plasticity 4) Industrial wastewater engineering 5) Ground improvement techniques	1) Operations Research methods and engineering applications 2) Biotechnology of waste treatment 3) Internet of things 4) Interior Design

Note: Minimum Number of students of opting for particular subject shall not less than 20.

Once you select the Elective Course it will not Change.

Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

Department of Civil Engineering

**ELECTIVE COURSE REQUEST FORM**

Date: 18/7/23

Name of Students: Bhai Bhushan Pramod

Year of Study: 2023 - 24 Class: BE

Branch: Civil

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	WSM	ACSAAD
Professional Elective Course	PC	BE
Open Elective Course	SHWM	ID

Bhushan  
Signature of Students

Name: Bhai Bhushan

**List of Elective as per Syllabus Structure for Fourth Year Civil Engineering (Semester -VII)**

Professional Elective Course – III	Professional Elective Course – IV	Open Elective Course – III
1)Remote Sensing 2)Port and Harbor Engineering 3)Watershed Management 4)Advanced steel structural analysis and design	1)Prestressed Concrete 2)Rural Sanitation 3)Advanced Water Treatment Technology 4)Hydraulic Modeling 5)Geosynthetic engineering	1)Solid and Hazardous Waste Management 2)Geology for engineers 3)Environmental Impact Assessment

**List of Elective as per Syllabus Structure for Fourth Year Civil Engineering(Semester- VIII)**

Professional Elective Course – V	Professional Elective Course – VI	Open Elective Course – IV
1)Advanced Concrete Structural Analysis and Design 2)Hydraulic Machines 3)Advanced wastewater engineering 4)Foundation Engineering	1)Design of hydraulic structures 2)Bridges engineering 3)Theory of elasticity and plasticity 4)Industrial wastewater engineering 5)Ground improvement techniques	1)Operations Research methods and engineering applications 2)Biotechnology of waste treatment 3)Internet of things 4)Interior Design

**Note:** Minimum Number of students of opting for particular subject shall not less than 20.

Once you select the Elective Course it will not Change.

Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

Department of Civil Engineering

**ELECTIVE COURSE REQUEST FORM**

Date: 20/07/2023

Name of Students: Valvi Dhanesh Balam

Year of Study: 2023-24 Class: BE

Branch: Civil

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	WSM	AC&AD
Professional Elective Course	PC	BE
Open Elective Course	SHWM	ID

Signature of Students

Name: Dhanesh

**List of Elective as per Syllabus Structure for Fourth Year Civil Engineering (Semester -VII)**

Professional Elective Course – III	Professional Elective Course – IV	Open Elective Course – III
1)Remote Sensing 2)Port and Harbor Engineering 3)Watershed Management 4)Advanced steel structural analysis and design	1)Prestressed Concrete 2)Rural Sanitation 3)Advanced Water Treatment Technology 4)Hydraulic Modeling 5)Geosynthetic engineering	1)Solid and Hazardous Waste Management 2)Geology for engineers 3)Environmental Impact Assessment

**List of Elective as per Syllabus Structure for Fourth Year Civil Engineering(Semester- VIII)**

Professional Elective Course – V	Professional Elective Course – VI	Open Elective Course – IV
1)Advanced Concrete Structural Analysis and Design 2)Hydraulic Machines 3)Advanced wastewater engineering 4)Foundation Engineering	1)Design of hydraulic structures 2)Bridges engineering 3)Theory of elasticity and plasticity 4)Industrial wastewater engineering 5)Ground improvement techniques	1)Operations Research methods and engineering applications 2)Biotechnology of waste treatment 3)Internet of things 4)Interior Design

**Note:** Minimum Number of students of opting for particular subject shall not less than 20.

Once you select the Elective Course it will not Change.

Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

Department of Electrical Engineering

**ELECTIVE COURSE REQUEST FORM**

Date: 20/07/2023

Name of Students: Shurich Md. Saad Shurich A

Year of Study: 2023-24 Class: BE

Branch: Electrical

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	EECA	HVDC
Professional Elective Course	IES	ETIV
Open Elective Course	BMI	Robotics

Signature of Students

Name: Shurich

List of Elective as per Syllabus Structure for Fourth Year Electrical Engineering (Semester -VII)

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

List of Elective as per Syllabus Structure for Fourth Year Electrical Engineering (Semester- VIII)

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

**Note:-**

- Minimum Number of students of opting for particular subject shall not less than 20.
- Once you select the Elective Course it will not Change.
- Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

**Department of Electrical Engineering**

**ELECTIVE COURSE REQUEST FORM**

Date: 20/07/2023

Name of Students: Priyanshu Arora

Year of Study: 2023-24 Class: BCE

Branch: Electrical

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	EECA	HVDC
Professional Elective Course	Ies	ETW
Open Elective Course	PM2	Robotics

Signature of Students

Name: Priyanshu Arora

**List of Elective as per Syllabus Structure for Fourth Year Electrical Engineering (Semester -VII)**

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

**List of Elective as per Syllabus Structure for Fourth Year Electrical Engineering (Semester- VIII)**

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

**Note:-**

- Minimum Number of students of opting for particular subject shall not less than 20.
- Once you select the Elective Course it will not Change.
- Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

**Department of Electrical Engineering**

**ELECTIVE COURSE REQUEST FORM**

Date: 20/07/2023

Name of Students: Pate Murali Atmaram

Year of Study: 2023-24 Class: 13E

Branch: Electrical

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	EECA	HVDC
Professional Elective Course	IES	EHV
Open Elective Course	BMI	Robotics

Signature of Students

Name: Pate Murali

**List of Elective as per Syllabus Structure for Fourth Year Electrical Engineering (Semester -VII)**

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

**List of Elective as per Syllabus Structure for Fourth Year Electrical Engineering (Semester- VIII)**

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

**Note:-**

- Minimum Number of students of opting for particular subject shall not less than 20.
- Once you select the Elective Course it will not Change.
- Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

Department of Electrical Engineering

**ELECTIVE COURSE REQUEST FORM**

Date: 20/07/2023

Name of Students: Valvi Renuka pise

Year of Study: 2023-24 Class: BE

Branch: Electrical

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	EECA	HVDC
Professional Elective Course	IES	EHV
Open Elective Course	BMI	Robotics

Signature of Students

Name: \_\_\_\_\_

List of Elective as per Syllabus Structure for Fourth Year Electrical Engineering (Semester -VII)

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

List of Elective as per Syllabus Structure for Fourth Year Electrical Engineering (Semester- VIII)

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

**Note:-**

- Minimum Number of students of opting for particular subject shall not less than 20.
- Once you select the Elective Course it will not Change.
- Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

**Department of Electrical Engineering**

**ELECTIVE COURSE REQUEST FORM**

Date: 20/07/2023

Name of Students: Anwar MD. Ahmad Fajar Ahmad.

Year of Study: 2023-24 Class: BE.

Branch: Electrical

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	EECA	HVDC
Professional Elective Course	IES	ETV
Open Elective Course	BMI	Robotics.

Signature of Students

Name: Anwar MD. Ahmad Fajar Ahmad.

**List of Elective as per Syllabus Structure for Fourth Year Electrical Engineering (Semester -VII)**

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

**List of Elective as per Syllabus Structure for Fourth Year Electrical Engineering (Semester- VIII)**

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

**Note:-**

- Minimum Number of students of opting for particular subject shall not less than 20.
- Once you select the Elective Course it will not Change.
- Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

**Department of Electrical Engineering**

**ELECTIVE COURSE REQUEST FORM**

Date: 20/07/2023

Name of Students: Ansari Umar Nisar Ahmad.

Year of Study: 2023-24 Class: BE.

Branch: Electrical

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	EECA	HNPC
Professional Elective Course	IES	EHV
Open Elective Course	BMI	Robotics

Signature of Students

Name: [Signature]

List of Elective as per Syllabus Structure for Fourth Year Electrical Engineering (Semester -VII)

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

List of Elective as per Syllabus Structure for Fourth Year Electrical Engineering (Semester- VIII)

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

Note:-

- Minimum Number of students of opting for particular subject shall not less than 20.
- Once you select the Elective Course it will not Change.
- Final Decision of offering the Elective Course is at the Discretion of Department Committee.

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		Practical		Total	
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	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



*Sunder*  
PRINCIPAL  
Jamia Institute of Engineering  
And Management Studies  
Ankeshwadi Dist. Handurbar(M.S.)

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		Practical		Total	
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	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



*Sandesh*  
PRINCIPAL  
Jamia Institute of Engineering  
And Management Studies  
At: Jalgaon Dist. Nandurbar

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

**Department of Electrical Engineering**

**ELECTIVE COURSE REQUEST FORM**

Date: 20/07/2023

Name of Students: Bagul Rupesh Dilip

Year of Study: 2023-24

Class: TE

Branch: Electrical

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	EIED	EMD
Open Elective Course	IS	PPE

Signature of Students

Name: Bagul Rupesh

**List of Elective as per Syllabus Structure for Third Year Electrical Engineering (Semester -V)**

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

**List of Elective as per Syllabus Structure for Third Year Electrical Engineering (Semester- VI)**

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

**Note:-**

- Minimum Number of students of opting for particular subject shall not less than 20.
- Once you select the Elective Course it will not Change.
- Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

**Department of Electrical Engineering**

**ELECTIVE COURSE REQUEST FORM**

Date: 30/07/2023

Name of Students: Mohammad Sami Fariduddin

Year of Study: 2023-24 Class: TE

Branch: Electrical

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	EIED	EMD
Open Elective Course	JS	PPE

Signature of Students

Name: Sami

**List of Elective as per Syllabus Structure for Third Year Electrical Engineering (Semester -V)**

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

**List of Elective as per Syllabus Structure for Third Year Electrical Engineering (Semester- VI)**

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

**Note:-**

- Minimum Number of students of opting for particular subject shall not less than 20.
- Once you select the Elective Course it will not Change.
- Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

Department of Electrical Engineering

**ELECTIVE COURSE REQUEST FORM**

Date: 20/07/2023

Name of Students: Farid Masood Ahmad

Year of Study: 2023-24 Class: TE

Branch: Electrical

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	EJCD	EMD
Open Elective Course	IS	PPE

Signature of Students

Name: [Signature]

**List of Elective as per Syllabus Structure for Third Year Electrical Engineering (Semester -V)**

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

**List of Elective as per Syllabus Structure for Third Year Electrical Engineering (Semester- VI)**

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

**Note:-**

- Minimum Number of students of opting for particular subject shall not less than 20.
- Once you select the Elective Course it will not Change.
- Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

**Department of Electrical Engineering**

**ELECTIVE COURSE REQUEST FORM**

Date: 24 Oct 2023

Name of Students: Prithi Jyoti Dinesh

Year of Study: 2023-24 Class: TE

Branch: Electrical

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	<u>EIEE</u>	<u>EMD</u>
Open Elective Course	<u>IS</u>	<u>PPE</u>

Signature of Students

Name: [Signature]

**List of Elective as per Syllabus Structure for Third Year Electrical Engineering (Semester -V)**

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

**List of Elective as per Syllabus Structure for Third Year Electrical Engineering (Semester- VI)**

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

**Note:-**

- Minimum Number of students of opting for particular subject shall not less than 20.
- Once you select the Elective Course it will not Change.
- Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

**Department of Electrical Engineering**

**ELECTIVE COURSE REQUEST FORM**

Date: 20/07/2023

Name of Students: Sayed Mubasshir Ali

Year of Study: 2023-24 Class: TE

Branch: Electrical

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	EIED	Emo
Open Elective Course	Is	PRC

Signature of Students

Name: Sayed Mubasshir

**List of Elective as per Syllabus Structure for Third Year Electrical Engineering (Semester -V)**

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

**List of Elective as per Syllabus Structure for Third Year Electrical Engineering (Semester- VI)**

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

**Note:-**

- Minimum Number of students of opting for particular subject shall not less than 20.
- Once you select the Elective Course it will not Change.
- Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

**Department of Electrical Engineering**

**ELECTIVE COURSE REQUEST FORM**

Date: 20/07/2023

Name of Students: Nasare Pragati Ranaji

Year of Study: 2023-24 Class: TE

Branch: Electrical

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	ETED	EMD
Open Elective Course	IS	PPE

Signature of Students

Name: Nasare Pragati

**List of Elective as per Syllabus Structure for Third Year Electrical Engineering (Semester -V)**

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

**List of Elective as per Syllabus Structure for Third Year Electrical Engineering (Semester- VI)**

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

**Note:-**

- Minimum Number of students of opting for particular subject shall not less than 20.
- Once you select the Elective Course it will not Change.
- Final Decision of offering the Elective Course is at the Discretion of Department Committee.

**Jamia Institute of Engineering and Management Studies,  
Akkalkuwa.**

**Department of Electrical Engineering**

**ELECTIVE COURSE REQUEST FORM**

Date: 20/07/2023

Name of Students: Shaiikh Naveed Anwar

Year of Study: 2023-24 Class: TE

Branch: Electrical

Types Of Elective Course	Name Of Elective Course	
	ODD Semester	Even Semester
Professional Elective Course	<u>FIED</u>	<u>EMD</u>
Open Elective Course	<u>IS</u>	<u>PPE</u>

Signature of Students

Name: Shaiikh Naveed Anwar

**List of Elective as per Syllabus Structure for Third Year Electrical Engineering (Semester -V)**

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

**List of Elective as per Syllabus Structure for Third Year Electrical Engineering (Semester- VI)**

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

**Note:-**

- Minimum Number of students of opting for particular subject shall not less than 20.
- Once you select the Elective Course it will not Change.
- Final Decision of offering the Elective Course is at the Discretion of Department Committee.

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

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	-	-	-	-	100	3
Microprocessor and Microcontroller Lab	D	-	-	2	2	-	-	25	25(OR)	50	1
Power System-II Lab	D	-	-	2	2	-	-	25	25(PR)	50	1
Minor Project	G	-	-	6	6	-	-	25	-	25	1
Internship – II*	H	-	-	-	-	-	-	50	25(OR)	75	3
		15	0	12	27	200	300	125	75	700	21
ISE: Internal Sessional Examination						ESE: End Semester Examination			ICA: Internal Continuous Assessment		

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



*Sunder*  
**PRINCIPAL**  
 Jamia Institute of Engineering  
 And Management Studies  
 Akkalkuwa Dist. Nandurbar (M.S.)

## 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



Principal  
Jamia Institute of Engineering  
And Management Studies  
Akkalkuwa Dist. Nandurbar(M.S.)