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

•			Teaching	Cohomo			Ev	aluation So	heme		400
N			Teaching	Scheme		Theo	Theory		ctical		
Name of the Course	Group	Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits
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



PRINCIPAL

Jamia Institute of Engineering
and Management Studies

Akkalkuwa, Dist. Nandurbar (M.S.)

Syllabus Structure for Third Year Engineering (Semester - VI) (Mechanical Engineering) (we f 2020 - 21) AICTE

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

			Teaching Scheme								
Name of the Course	Group	4	reaching	Scheme		Т	heory	Prac	tical/Ora l		Credits
	1 1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Theory Hrs/week	Tutorial Hrs / week	Practical Hrs/week	Total	ISE	ESE	ICA	ESE	Total	Credits
PCC CE301: Mechanics of Materials	D	3	- 1	-	3	40	60	+-		100	
PCC CE302: Hydraulic Engineering	D	3	-	-	3	40		 - -	-	100	3
PCC CE304: Geotechnical Engineering	D	3				-	60	•	-	100	3
PEC Professional Elective Course – I			-		3	40	60	-	-	100	3
	Е	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		
PCC CE304: Geotechnical Engineering	D							23	OR	50	1
PCC CE203: Disaster preparedness &		-	· ·	2	2	-	-	25	25 OR	50	1
Planning Management (LAB)	D	-	-	2	2		-	25	25 OR	50	1
Minor Project Stage I	G	- 1	-	6	6			50	- OR	50	
MC III Constitution of India		-	- 1	-			,	30		30	3
		15	0			-	-	-	*	-	0
· · · · · · · · · · · · · · · · · · ·	 -	1.	U	. 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



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

			Teaching	Scheme	-						
Name of the Course									etical		1
	Group	Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits
Power Electronics	D	3	-	-	3	40	60				
Power System-I	D	3	_		3	40		-	-	100	3
Electromagnetic Field	D	3					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					40	60	-	-	100	3
Power System-I Lab	D			2	2	-	-	25	25(OR)	50	1
Electronic Design Laboratory	D	-	-	2	2	-	-	25	25(PR)	50	1
Minor Project (Stage -I)	_	-	-	2	2	-	-	25	25(OR)	50	1
	G	-	-	6	6	-	-	50	-	50	· 3
Constitution of India		-	-								
100		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

Syllabus for Third Year Engineering (Electrical Engineering) (As per AICTE Guidelines) A.c.f. 2020 – 21

PRINCIPAL
Jamia Institute of Engineering
And Management Studies
Aukralkuwa Dist. Nandurbar(M.S.)

1/79

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

		Landania de la companya de la compa					Eva	aluation Sc	heme			
			Teaching	Scheme		Theo	ry	Pra	ctical	4	Cdita	
Name of the Course	Group	Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits	
	D	3			3	40	60			100	3	
Kinematics and Theory of Machines	D				3	40	60			100	3	
Manufacturing Technology	D	3			3	40	60			100	3	
Material Engineering	D	3					60		_	100	3	
Professional Elective Course - II	E	3			3	40		-		100	2	
Open Elective Course – II	F	3			3	40	60		-	100		
Kinematics and Theory of Machines	D			2	2			25	25 (OR)	50	1	
Lab	D			2	2			25	25 (OR)	50	1	
Manufacturing Technology Lab				2	2		†	25	-	25	1	
Material Engineering Lab	D				6	_	1	50	25 (OR)	75	3	
Minor Project	G			6	0		-		23 (OK)			
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.

PRINCIPAL

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

Jamia Institute of Engineering and Management Studies Akkalkowa.Dist.Nandurbar(M.S.)

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

		Teaching Scheme Evaluation Scheme									
Name of the Course	Group			4 4.7		Th	neory	Practical/Oral		T	7
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits
PCC CE303 Structural Engineering	D	3	· -,	-	3	40	60		<u> </u>	100	3
PCC CE306: Environmental Engineering	D	3			3	40	60	-	-	100	
PCC CE307 Transportation Engineering	D	3		-	3	40	-		-		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	-	- 60	25	-	100	3
PCC CE 306 Environmental Engineering Lab	D	-	-	. 2	2		-	25	25 OR 25 OR	50	1
PCC CE 307 Transportation Engineering Lab	D	_		2	2	-	- 19		25 UK	50	1
Minor Project						-	/ - ·	25	-	25	1
	G		-	6 .	6	- 2	•	50	25 OR	75	3
nternship ==	н.	;-	-		-	-	- 1	^-	-	-	-
		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



DRINCIPAL

Damia Institute of Engineering

And Management Studies

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

	~ a .	100	Teaching	Scheme		10	Eva	aluation S	cheme		
Name of the Course					-1-	The	eory	Pra	ectical		1
to et	Greup	Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits
Control System	D	3	-	-	3	40	60				
Microprocessor and		. 7				40	60		-	100	3
Microcontroiler	D	3	-	-	3	40	60	_		100	3
Power System-JI	D	3	-			40				100	3
Professional Elective Course - II	E	3			3	40	60	-	-	100	3
Open Elective Course – II	F	3		-	3	40	60	-	-	100	3
Contro! System Lab	D		-	-	3	40	60	-	-	100	3
Microprocessor and	D	7.15	-	2	2	-	-	25	25(OR)	50	1
Microcontroller Lab	D	· ·	-	2	2	-	-	25	25(PR)	50	
Power System-II Lab	D	_	-	2	2						•
Minor Project	G	-	-	6			-	25	-	25	1
nternship – II*	H				6	-	-	50	25(OR)	75	3
		15	0	12	27	200	-	-	-	-	

ISE: Internal Sessional Examination

ESE: End Semester Examination

ICA: Internal Continuous Assessment

Professional Elective Course – II	Open Elective Course – II
I Industrial Automation	1 Power Plant Engineering
2 Advance Power Electronics	2 Linear Integrated Circles Linear Integrate
3 Non-Conventional Energy System	2 Linear Integrated Circuits and Applications 3 Digital Logic and Sect Management 2
4 Electrical Machine Design	3 Digital Logic and State 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.c.f. 2020 – 21

PRINCIPAL
Jamia Institute of Engineering
And Management Studies
Aldkalkuwa Dist, Nandurbar(M.S.)

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

·			Teaching	Scheme			Ev	aluation Sc	heme	,	
Name of the Course	_			Theo	ry	Pra	ctical				
	Group	Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits
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		ı	3	40	60		_	100	3
Design of Machine Elements Lab	D			2	2			25	25 (OR)	50	
Computer Aided Design Lab	D	1		2	3			25	25 (PR)	50	2
Project (Stage - I)	G			12	12			50	50 (OR)	100	
Essence of Indian Traditional Knowledge	н			-	-	-	-				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	Mechatronic Systems	1) Machinery Condition Monitoring
2) Operation Research		2) Data Base Management
3) Electrical & Hybrid Vehicles		Microprocessor & Microcontrollers in automation
4) Mechanical Vibration		4) Research Methodology



somelle.

Syllabus for Fourth Year Engineering (Mechanical Engineering) w.e.f. $2021-22\ AICTE$

PRINCIPAL

Jamia Institute of Engineering
and Management Studies

Akkalkuwa, Dist. Nandurbar (M.S.)

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

							E	valuatio	n Schen	ie	T
Name of the Course	Grou	Teaching Scheme					eory	Prac	tical/Ora		
	р	Theor y Hrs / week	Tutori al Hrs / week	Practi cal Hrs / week	Tot al	IS E	ES E	ICA	ESE	Tot al	Credit
PCC CE305 Hydrology & Water Resources Engineering	D	3	-	-98	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	F	3			3	40	60	- /	-	100	3
PCC CE305 Hydrology & Water Resources Engineering LAB	. D		<u>-</u>	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 Tradition	onal	-	-	-	-	-	-	-	-	-	0
		13		16	29	16 0	24	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	. 5
Advanced steel structural analysis and design	Geosynthetic engineering	

PRINCIPAL
Jamia Institute of Engineering

And Hanagement Studies Akkaikuwa Dist. Nandurbar(M.S.)

Syllabus for Final Year Engineering (Civil) wef 2020 - 21

Page 2 of 132

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

	-						Evalua	ation Sch	eme		
	ξ		Teaching Scheme				ry	Practical			
Name of the Course	Group	Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits
		3			3	40	60	-,	-	100	3
Electrical Drives	D				3	40	60	-	-	100	3
Professional Elective Course -III	Е	3			3	40	60		-	100	3
Professional Elective Course -IV	E	3	-			40	60		-	100	3
Open Elective Course – III	F	3	-	-	3		-	25	25(PR)	50	1
Electrical Drives Lab	D	-	-	2	2	-		25	25(OR)	50	2
MATLAB and its applications	D	1	-	2	3					100	6
	G	-	-	12	12		-	50	50(OR)	100	-
Project (Stage -I) Essence of Indian Traditional	Н	-	-	-	-	-	-	-	-	-	-
Knowledge		13		16	29	160	240	100	100	600	21

ISE: Internal Sessional Examination

ESE: End Semester Examination

ICA: Internal Continuous Assessment

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



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

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

			Teaching	Scheme			Eva	aluation So	cheme		
Name of the Course	Group	TL				Theory		Practical			
		Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits
Refrigeration & Air Conditioning	D	3	-	_	3	40.	60			100	
Professional Elective Course - V	E	3		_	3	40	60		-		3
Professional Elective Course - VI	E	3		_	3	40			-	100	3
Open Elective Course - IV	F	3	_		2		60	_		100	3
Refrigeration & Air Conditioning Lab	D	_	_	2	2	40	60	25	25 (OR)	100	3
inite Element Analysis & Simulation Lab	D	2	_	2	4			25	25 (OR)	50	1
Project	G	-	_	6	6				, ,		3
		14	_	10	24			50	50 (OR)	100	3
				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 Floating Community
3) Renewable Energy Sources & Technology	Total Quality Management Automobile Engineering Computational Fluid Dynamics Gas Dynamics & Jet Propulsion	Open Elective Course – IV 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

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

	_	1	rear En	Битеети	ig (CIV	IL) (3	emeste	r – VIII)	(Civil)			
			'aa-b!	- C-L -			Ev	aluation	Schem	e		
			eacning	g Schem	ie		Theory	Pra	ctical/O	г		
Name of the Course	Grou p	Theor y Hrs / week	Tut oria I Hrs / wee k	Practi cal Hrs / week	Tot al	: IS	ESE	ICA	ESE	Tot al	Cree	
PCC CE309: Engineering Economy, Estimation & Costing	D	3	7-		3	40	60	-	-	100	3	1
PEC Professional Elective Course V	Е	3	-	-	3	40	60	-	-	100	3	$\frac{1}{1}$
PEC Professional Elective Course VI	E	3	-		3	40	60	-	-	100	3	1
OEC Open Elective Course IV	F	3	- 1	_	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	- 1		6	6	-	-	50	50 OR	100	3	
		14	0	10	24	16 0	240	100	100	600	19	8

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

Page 3 of 132 AL

And Management Studie

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

		4	Teaching	Scheme				aluation S	Scheme		T
Name of the Course	Group	Theory	Tutorial	Dun of 1		The	eory	Pr	actical		1
Power System Protection		Hrs / week	Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits
Professional Elective Course - V	D	3	-	-	3	40	60				
Descriptional Elective Course - V	E	3	-		3			-	-	100	3
Professional Elective Course -VI	Е	3				40	60	-	-	100	3
Open Elective Course - IV	F	3	-	-	3	40	60	-	-	100	3
Power System Protection Lab	D		-		3	40	60				
High Voltage Laboratory		-	-	2	2	_				100	3
Then voltage Laboratory	D	2	-	2			-	25	25(PR)	50	1
Project	G				4	-	-	25	25(OR)	50	3
				6	6	-	-	50	50(OR)		
		14	0	10	24	160	240		. ,	100	3
						100	240	100	100	600	19

ISE: Internal Sessional Examination

ESE: End Semester Examination

ICA: Internal Continuous Assessment

2 Power Converter Applications	ofessional Elective Course – VI Electric and Hybrid Vehicles	Open Elective Course – IV Digital Signal Processing
2 A A A A A A A A A A A A A A A A A A A	Advanced Electric Drives	Bigital Signal Processing
4 Power System Postsustania 3 E.	EHVAC Transmission Systems Illumination Engineering	2 Embedded System 3 Robotics 4 Cyber Security



PRENCIPAL

Damia Institute of Engineering
And Management Studies

Alkalkuwa Dist, Nandurbar(M.S.)

 $Kavayitri\ Bahinabai\ Chaudhari\ North\ Maharashtra\ University,\ Jalgaon\ (M.S.) \\ \textbf{Syllabus\ Structure\ for\ Third\ Year\ Engineering\ (Semester-V)\ (Computer)\ (w.e.f.\ 2020-21)}$

			Tooching	Schomo	J- 2		Evaluation Scheme				
Name of the Course Group		Teaching Scheme				Theory		Practical			
	Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits	
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	Е	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	1:	-	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 **	Н	-	-	-	-	-	-	-	-	-	-
		15	0	12	27	200	300	125	75	700	21

ISE: Internal Sessional Examination

ESE: End Semester Examination

ICA: Internal Continuous Assessment

5-96	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 for Third Year Engineering (Computer Engineering) w.e.f., 2020 - 21 (As per AICTE Guidelines)

Page 2 of 81

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

(As per AICTE Guidelines)

			Tooching	Sahama			Eva	aluation Sch	neme		
		Teaching Scheme				Theory		Practical			
Name of the Course	Group	Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits
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 *	Н	-	-		-	-	-	- 45	-	-	-
		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**	1	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 for Third Year Engineering (Computer Engineering) w.e.f. 2020 - 21 (As per AICTE Guidelines)

Page 3 of 81

$Syllabus\ Structure\ for\ Final\ Year\ Engineering\ (Semester-VII)\ (Computer\ /\ Information\ Technology)\ (w.e.f.\ 2020-21)$

				- p							
Name of the Course Group		Teaching Scheme				Theory		Practical			
	Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits	
Complier Design	D	3	<u>-</u>		3	40	60	-	-	100	3
Professional Elective Course – III	Е	3	_	-	3	40	60	-	-	100	3
Professional Elective Course – IV	E	3	7-	-	3	40	60	_	_	100	3
Open Elective Course – III	F	3		-	3	40	60	-	_	100	3
Complier Design Lab	D	-	-	2	2	-	-	25	25 (PR)	50	1
Advanced Technology Lab - I	D	1		2	3	1_	-	25	25 (PR)	50	2
Project (Stage – I)	G	-	-	12	12	-	-	50	50 (OR)	100	6
Essence of Indian Traditional Knowledge	Н	-	3-	-		-	- ,	-	-	-	-
		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		Quantitative Reasoning and
	Francisco Company				Problem Solving
4	Virtual Reality	4	Human Computer Interaction	4	Entrepreneurship Development

 $Syllabus\ for\ Final\ Year\ Engineering\ (Computer\ Engineering\ /\ Information\ Technology)\ w.e.f.\ 2020-21$

Page 2 of 80

Syllabus Structure for Final Year Engineering (Semester = VIII) (Computer / Information Technology) (w.e.f. 2020 – 21)

			Teaching Scheme				Evaluation Scheme					
Nome of the Comme		reaching Scheme					ory	Pra	etical			
Name of the Course	Group	Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits	
Cyber Security	D	3		-	3	40	60	_		100	3	
Professional Elective Course - V	E	3	7 - 7 <u>-</u> 2 - 7	-	3	40	60			100	2	
Professional Elective Course – VI	Е	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	3	
Advanced Technology Lab - II	D	2.	_	2	4		+	25	(/		1	
Project	G		_	6			-		25 (PR)	50	3	
,		14	0		6	-	-	50	50 (OR)	100	3	
		14	U	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		Logical Reasoning and Problem
4	Business Analytics and Intelligence	4	Information Retrieval	4	Solving Robotics

 $Syllabus\ for\ Final\ Year\ Engineering\ (Computer\ Engineering\ /\ Information\ Technology)\ w.e.f.\ 2020-21$

Page 3 of 80



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

T CE1-4:	Name of Elective						
Type of Elective	ODD Semester	Even Semester					
Professional Elective							
Professional Elective	KALKHDA						
Open Elective							

Signature of Student

Principal

Sourcell

Jamia Institute of Hadineering and Management Studies,

Akkalkuwa, Dist. Nand Wood 125415

Department of Mechanical Engineering.

ELECTIVE COURSE SECTION

Date: 17 / 08 / 2023

Class: T.E. Mechanical

Academic Year: 2023-24

Town Of Floring Course	Name Of Elective Course						
Types 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	9
2	Prof. Nikhil Patel	Academic Coordinator	89
3	Prof. Khatik Imran	Class Teacher	X
4	Prof. D.V. Bhadane	Member	Thadow

Principal
JIEMS Akkalkuwa

List of Elective as per Syllabus Structure for Third Year Engineering (Semester Third Year Engineer

4) Tribology 4) Industrial Safety Engineering

List of Flective as per Syllabus Structure for Third Year Engineering (Semester

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
4) Solid Mechanics	(MEMS)
	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.

Department of Mechanical Engineering.

ELECTIVE COURSE REQUEST FORM

Date: 10/68/2023

Name of Students: Umed Khan	
Year of Study : 2023 - 24	Class: T.E
Remain Markette 1	PPN Number 0 - 016 121 31 00 - 3

Types Of Elective Course	Name Of	f Elective Course
Types Of Liective Course	ODD Semester	Even Semester
Professional Elective Course	Tribology	Internal combustion Endine
Open Elective Course	Industrial Safety Engineering	Pipins Endineering

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
4) Solid Mechanics	(MEMS)
	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.

Department of Mechanical Engineering.

ELECTIVE COURSE REQUEST FORM

Date: 14/08/2023

Inayat	Almama	d.		
4				
	PRN Num	ber: 202101540031892		
	Name Of E	lective Course		
ODD	Semester	Even Semester		
and the second s		Internal Combustion Engine		
Industrial Safety Piping Engineering.		7		
Signature of Students				
		Name: Sedat Inayat		
Structure for T	Third Year Engine	ering (Semester – V)		
THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWIND TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN				
	Open Elective Cou	rse – I		
	1) Electronic Devi	rse – I ces		
gn	1) Electronic Devi 2) Object Oriented	rse – I ces Programming		
gn ement	1) Electronic Devi 2) Object Oriented 3) Introduction to	rse – I ces Programming Plastic Engineering		
gn ement	1) Electronic Devi 2) Object Oriented 3) Introduction to	rse – I ces Programming		
ement	1) Electronic Devi 2) Object Oriented 3) Introduction to 4) Industrial Safety	rse – I ces Programming Plastic Engineering VEngineering		
ement	1) Electronic Devi 2) Object Oriented 3) Introduction to 4) Industrial Safety	rse – I ces Programming Plastic Engineering Engineering Find (Semester – VI)		
	ODD Tribo Industri	PRN Num		

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.

2) Mechanical Estimation and Costing

3) Internal Combustion Engine

4) Solid Mechanics

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

2) Introduction to Data Structure

3) Introduction to Micro-Electro-Mechanical Systems

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

			Tonching Schomo	Sohomo			Eva	Evaluation Scheme	ieme		
			Teaching	Scheme		Theory	>	Prac	Practical		
	1				-	TOWN Y	-	TIGI	LICAL		
Name of the Course	Group	Theory	Tutorial	Practical							Credits
		Hrs/	Hrs/	Hrs/	Total	ISE	ESE	ICA	ESE	Total	
		week	week	week							
Heat Transfer	D	3	1	1	3	40	09	1	-	100	3
Manufacturing Processes	D	3	1	1	3	40	09	1	1	100	, "
Strength of Materials	D	3	1	-	3	40	09	1	-	100	3 6
Professional Elective Course - I	E	3	1	-	3	40	09			100	2 4
Open Elective Course - I	R	3	1	-	3	40	09			100	0 "
Heat Transfer Lab	D	1	1	2	2	-	1	25	25 (PR)	50	-
Manufacturing Processes Lab	D	-	-	2	2	-	:	25	25 (OR)	50	1
Machine Drawing Lab	D	-	-	2	2	1*		25	25 (OR)	50	1
Minor Project - I (Stage -I)	9	-	1	9	9	-	-	50	(1)	20	7 "
Constitution of India	H	-	1	1	1	-	:	3 1	-	2	0
		15	-	12	27	200	300	175	75	200	11
ISE: Internal Sessional Examination	ES	ESE: End Semester Examination	mester Exa	ımination	OI	ICA: Internal Continuous Assessment	Continu	ious Assess	ment	2007	17

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

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

			1				Eva	Evaluation Scheme	heme			
			Teaching Scheme	Scheme		Theory	ry	Pra	Practical			
Name of the Course	Group	Theory Hrs/	Tutorial Hrs/	Practical Hrs/	Total	ISE	ESE	ICA	ESE	Total	Credits	
		week	week	week		-	1				,	
Kinematics and Theory of Machines	a	3	1	1	3	40	09	1		100	3	_
Monnfacturing Technology	0	3	1	1	3	40	09	1	1	100	3	
Motoriol Engineering	0	3	1	-	3	40	09	-	1	100	3	
Professional Flective Course - II	E	3	1	1	3	40	09	-		100	3	
Onen Elective Course – II	GL.	3	1	-	3	40	09	,		100	3	
Kinematics and Theory of Machines	D	1	1	2	2		1	25	25 (OR)	50	1	
Manufacturing Technology Lab	Q	1	1	2	2	1	-	25	25 (OR)	50	1	
Material Engineering Lab	Q	1	1	2	2		-	25	1	25	1	
Minor Project	9	1	-	9	9	•	-	50	25 (OR)	75	3	
Internship*	H	-	-	-	•		-					
		15	•	12	27	200	300	125	75	200	21	
		The same of the sa										

ISE: Internal Sessional Examination

ESE: End Semester Examination

ICA: Internal Continuous Assessment

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

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 F	Elective Course
Types 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	9
2	Prof. Nikhil Patel	Academic Coordinator	Ber
3	Prof. D.V. Bhadane	Class Teacher	3hade @
4	Prof. Khatik Imran	Member	x

Principal
JIEMS Akkalkuwa

1.5.)

List of Elective as per Syllabus Structure for Fourth Year Mech. Engineering (Somester Syllabus Structure for Fourth Year Mech. Engineering (Source Syllabus Structure for Fourth Year Mech. E

Professional Elective Course - III	Professional Elective Course – IV	Open Elective Course - Ill Conding
1) Automation in Manufacturing 2) Operation Research	1) Mechatronic Systems 2) Advanced Machining Processes	1) Machinery Condition States (14) Machinery Condition Monitoring
3) Electrical & Hybrid Vehicles 4) Mechanical Vibration	3) Power Plant Engineering 4) Product Design	Data Base Management Microprocessor &
Ty modification of the second		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 Šystem	Total Quality Management Automobile Engineering Computational Fluid Dynamics 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.

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: 2021015 400319652

	Name Of E	lective Course
Types Of Elective Course	ODD Semester	Even Semester
Professional Elective Course	OR	RES
Professional Elective Course	PPG	AE
Open Elective Course	RM	EIS

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	1) Mechatronic Systems 2) Advanced Machining Processes	1) Machinery Condition Monitoring
3) Electrical & Hybrid Vehicles	3) Power Plant Engineering	2) Data Base Management
4) Mechanical Vibration	4) Product Design	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.

Department of Mechanical Engineering.

ELECTIVE COURSE REQUEST FORM

Date: 18/ 07/ 2023

Name of Students: Md Tatseer	
Year of Study : 2023/24	Class: BE
Branch: Mech.	PRN Number: 2021 01540 0 319594

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

Signature of Students

Name: Md Tatseer

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
Automation in Manufacturing Operation Research Electrical & Hybrid Vehicles Mechanical Vibration	Mechatronic Systems Advanced Machining Processes Power Plant Engineering Product Design	Machinery Condition Monitoring Data Base Management Microprocessor & Microcontrollers in automation 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	Total Quality Management Automobile Engineering Computational Fluid Dynamics 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.

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

									-		
		Credits	3	3	3	3	1	2	9	0	21
		Total	100	100	100	100	50	50	100	-	009
heme	Practical	ESE	-	1	1		25 (OR)	25 (PR)	50 (OR)	-	100
Evaluation Scheme	Pra	ICA	1	1	1		25	25	50	1	100
Ev	ry	ESE	09	09	09	09	1	1	1	•	240
	Theory	ISE	40	40	40	40	-	1	1		160
		Total	3	3	3	3	2	3	12	1	29
Scheme		Practical Hrs / week	-	1	1	1	2	2	12	1	16
Teaching Scheme	Leacuing	Tutorial Hrs/	1	1	1	-	-	1	1	1	1
		Theory Hrs/ week	3	3	3	3	-	1	-	-	13
		Group	Q	E	E	F	D	D	9	Н	
		Name of the Course	Design of Machine Elements	Professional Elective Courses - III	Professional Elective Course - IV	Open Elective Course - III	Design of Machine Elements Lab	Computer Aided Design Lab	Project (Stage-I)	Essence of Indian Traditional Knowledge	

-	
_	
=	
_	
4	
_	
-	
20	
2	
-	
-	
0.0	
0	
м	
Ø	
10	
2	
d)	
*	
-	
44	
and i	
200	
-	
AY	
-	
-	
200	
_	
-	
4.4	
8.0	
-1	
-	
100	
A)	

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

		100					Eva	Evaluation Scheme	eme		
			Teaching Scheme	Scheme		Theory	y	Prac	Practical		
Name of the Course	Group	Theory Hrs /	Tutorial Hrs/	P	Total	ISE	ESE	ICA	ESE	Total	Credits
	-	week	week	week	,		3			100	,
Refrigeration & Air Conditioning	O	3	1	-	3	40	09	1	1	100	3
Professional Elective Course - V	E	3	-	-	3	40	09	1	1	100	3
Professional Elective Course - VI	E	3	-	-	3	40	09	-	1	100	3
Open Elective Course - IV	F	3	-	-	3	40	09	-		100	3
Refrigeration & Air Conditioning Lab	D	1	1	2	2	1	1	25	25 (OR)	50	1
Finite Element Analysis & Simulation Lab	D	2	-	2	4	1	1	25	25 (PR)	50	3
Project	9	-	-	9	9	-	1	50	50 (OR)	100	3
		14	-	10	24	160	240	100	100	009	19
		The second secon		The second secon	THE RESERVE TO SHARE THE PARTY OF THE PARTY	THE RESIDENCE OF THE PARTY OF T					

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 &
2) 3D printing	2) Automobile Engineering	Startups
3) Renewable Energy Sources & Technology	3) Computational Fluid Dynamics	2) Industrial & System Engineering
4) Design of Transmission System	4) Gas Dynamics & Jet Propulsion	3) Internet of Things
		4) Artificial Intelligence

Department of Civil Engineering

ELECTIVE COURSE REQUEST FORM

BIBCITYE	Date: 14/08/2023
	nuis Zwavl Abeddin
Year of Study: 20 23-24	Class: 7. E
Branch:	

	Name Of E	lective Course
Types 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.

Department of Civil Engineering

ELECTIVE COURSE REQUEST FORM

Date: 14/8/24

Name of Student: Sayed O	ves Zubair	
Year of Study: 2023-24	Class: T. E.	
Branch: CIVIL		

Types Of Elective Course	Name Of F	Elective Course
Types Of Elective Course	Semester - V	Semester - VI
Professional Elective Course	Cm	ВСР
Open Elective Course	PMIT	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	1)Air Pollution Control Technology
2)Airport Planning and Design	2)Geographical information system
3)Repair & Rehabilitation of structures	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	1)Intelligent transportation system 2)Smart city planning
3)Construction Equipments and Automation	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.

Department of Civil Engineering

ELECTIVE COURSE REQUEST FORM

				D	ate: 18 /08
Name of Student:_	Makrans	Jahid	Husen	Jakir	Husen
Year of Study: 2	023-24	Clas	ss:	T. E	6.6
Branch:					

Types Of Elective Course	Name Of El	ective Course
appea 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
)Concrete Materials	1)Air Pollution Control Technology
)Airport Planning and Design	2)Geographical information system
)Repair & Rehabilitation of structures	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.

Department of Civil Engineering

ELECTIVE COURSE REQUEST FORM

Date: 12/08/2023

Name of Student:	Mohammorel Am	in patel
Year of Study: 20		T.E Civil

Branch: Civil

Types Of Elective Course	Name Of E	lective Course
	Semester - V	Semester - VI
Professional Elective Course	CM	Rrp
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.

Department of Civil Engineering

ELECTIVE COURSE REQUEST FORM

Date: 16 |8 | 2023

Name of Student: Rahase 408ito	ku ku	shal	
Year of Study: 2023 - 2024	Class:_	PERSONAL PROPERTY OF THE PARTY	
Branch: Clul			

	Name Of	Elective Course
Types Of Elective Course	Semester - V	Semester - VI
Professional Elective Course	CM	BCb
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.

Department of Civil Engineering

ELECTIVE COURSE REQUEST FORM

Date: 18/4/23

Name of Students: KWA	BEMAR	
Year of Study: 1823-14	Class: \(\mathcal{R} \)	E
Branch: Clul		
Types Of Elective Course	Name Of El	ective Course
Types of Elective Course	ODD Semester	Even Semester

Professional Elective Course	KISTA	ACSAD
Professional Elective Course	PC	BE
Open Elective Course	SNIMM	20

Signature of Students
Name: WANN ARWAY

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.

Department of Civil Engineering

ELECTIVE COURSE REQUEST FORM

Date:/9/07/2023

	101.	Kahul	01.11.	
Name of Students:	vaire	Kanw	organ	19

Year of Study: 2023-24

Class: B.E Cin

Branch: _ Civil

Trunca Of Floating Course	Name Of Elective Course		
Types 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: Valvi 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.

Department of Civil Engineering

ELECTIVE COURSE REQUEST FORM

	Date: 18/4/23,
Name of Students: Badgujan Sugar	
Year of Study: 1023-29 Class: BE	
Branch: Civil Engg.	

Types Of Elective Course	Name Of Elective Course		
Types of Elective Course	ODD Semester	Even Semester	
Professional Elective Course	WSM	ACSAD	
Professional Elective Course	PC	DE	
Open Elective Course	SHUM	TD.	

Signature of Students
Name: Badgujan Saya

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 Note: Minimum Nature Control	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.

Department of Civil Engineering

ELECTIVE COURSE REQUEST FORM

Date: 18/7/23

Name of Students:	13 000	Bhishan	Pramod	
Year of Study: 2 023	- 24	Class:_	RE	
Branch: Ctur				

Types Of Elective Course	Name Of Elective Course		
Types Of Elective Course	ODD Semester	Even Semester	
Professional Elective Course	WSM	ACSAD	
Professional Elective Course	PC	BE	
Open Elective Course	SHWM	Ip	

Signature of Students

Name: Bhoi Bhuston

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.

Department of Civil Engineering

ELECTIVE COURSE REQUEST FORM

Date: 2010712023

Name of Students: Volvi	persone	sh Bale	rom
Year of Study: 2023-24	Class:	BE	
Pennshy Policy			

Types Of Elective Course	Name Of E	lective Course
	ODD Semester	Even Semester
Professional Elective Course	WSM	ACGAD
Professional Elective Course	pe	BE
Open Elective Course	SHWM	JD

Signature of Students Name:

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

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.

Department of Electrical Engineering

ELECTIVE COURSE REQUEST FORM

Date: 20/07/2013

Name of Students: fhutch	Mel. Suad	Shusil A	
Year of Study: 2083-24	Class:	BE	
Branch C			

T Of Flasting Comme	Name Of Elective Course		
Types Of Elective Course	ODD Semester	Even Semester	
Professional Elective Course	EECA	HYDC	
Professional Elective Course	TES	EHV	
Open Elective Course	BMI	Robetitis	

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
	1) Electrical Energy Conservation and	1) Power System Dynamics and	1) VLSI Design and Technology
-	Auditing	Control	2) Artificial Intelligence
	2) Electrical Machines Modelling and	2) Power Electronics and	3) Virtual Reality
	Analysis	Distributed Generation	4) Bio-Medical Instrumentation
	3) Power Generation and Economics	3) Industrial Electrical Systems	
	4) Digital Control System	4) Power System Design Practice	A1

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,	1) Electric and Hybrid Vehicles	1) Digital Signal Processing
1	& Power Quality	2) Advanced Electric Drives	2) Embedded System
	2) Power Converter Applications	3) EHVAC Transmission Systems .	3) Robotics
	3) HVDC Transmission Systems	4) Illumination Engineering	4) Cyber Security
	4) Power System Restructuring		

- 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.

Department of Electrical Engineering

ELECTIVE COURSE REQUEST FORM

garanta Algaria	DINWIGHT	2 1 A	Date: 20/ 07/ 2003
Name of Students:	A ctara che	ud	4
Year of Study: 2023-24	Class:	136	
Branch: Electrical			

Types Of Elective Course	Name Of Elective Course	
Types Of Elective Course	ODD Semester	Even Semester
Professional Elective Course	EECA	HVDC
Professional Elective Course	29 <u>J</u>	EAW
Open Elective Course	Psm3	Peloetics

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
	1) Electrical Energy Conservation and	1) Power System Dynamics and	1) VLSI Design and Technology
٦	Auditing	Control	2) Artificial Intelligence
,	2) Electrical Machines Modelling and	2) Power Electronics and	3) Virtual Reality
	Analysis	Distributed Generation	4) Bio-Medical Instrumentation
	3) Power Generation and Economics	3) Industrial Electrical Systems	
	4) Digital Control System	4) Power System Design Practice	1300

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	1) Electric and Hybrid Vehicles	1) Digital Signal Processing
& Power Quality	2) Advanced Electric Drives	2) Embedded System
2) Power Converter Applications	3) EHVAC Transmission Systems	3) Robotics
3) HVDC Transmission Systems		4) Cyber Security
4) Power System Restructuring		, ,

- > 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.

Department of Electrical Engineering

ELECTIVE COURSE REQUEST FORM

Date: 20 107 1 9023

Name of Students: Date Mu	raul	Stonwren	
Year of Study: 2073-24	Class:	13€	
Branch: AR(+mice)			

Types Of Elective Course	Name Of Elective Course		
- Jpos of Elective Course	ODD Semester	Even Semester	
Professional Elective Course	EECA	HUDE	
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
1) Electrical Energy Conservation and	1) Power System Dynamics and	1) VLSI Design and Technology
Auditing	Control	2) Artificial Intelligence
2) Electrical Machines Modelling and		3) Virtual Reality
Analysis		4) Bio-Medical Instrumentation
3) Power Generation and Economics	3) Industrial Electrical Systems	, and a second street and a second street
4) Digital Control System	4) Power System Design Practice	

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
 Flexible AC Transmission System Power Quality Power Converter Applications HVDC Transmission Systems Power System Restructuring 	2) Advanced Electric Drives3) EHVAC Transmission Systems	1) Digital Signal Processing 2) Embedded System 3) Robotics 4) Cyber Security

- 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.

Department of Electrical Engineering

ELECTIVE COURSE REQUEST FORM

Date: 20/07/2023

Name of Students: \/a \/i &m	oursing	pisce
Year of Study: 2023-24	Class:	13E
Branch: <u>Electrical</u>		

1 1/2	Name Of Elective Course	
Types Of Elective Course	ODD Semester	Even Semester
Professional Elective Course	EECA	HYDC
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)

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

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	2) Advanced Electric Drives3) EHVAC Transmission Systems	
4) Power System Restructuring	4) Illumination Engineering	4) Cyber Security

- > 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.

Department of Electrical Engineering

ELECTIVE COURSE REQUEST FORM

	Date: 20/07/2 023
Name of Students: Angan mo. Ahmad	Rigar Ahmad
Year of Study: 1028-24 Class:	BE
Branch: PROMO	

Types Of Elective Course	Name Of Elective Course		
Types of Elective Course	ODD Semester	Even Semester	
Professional Elective Course	EECA	HWDC	
Professional Elective Course	IFS	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
	1) Electrical Energy Conservation and	1) Power System Dynamics and	1) VLSI Design and Technology
	Auditing		2) Artificial Intelligence
U	2) Electrical Machines Modelling and		3) Virtual Reality
	Analysis		4) Bio-Medical Instrumentation
	3) Power Generation and Economics	3) Industrial Electrical Systems	
	4) Digital Control System	4) Power System Design Practice	

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
 Flexible AC Transmission System Power Quality Power Converter Applications HVDC Transmission Systems Power System Restructuring 	2) Advanced Electric Drives 3) EHVAC Transmission Systems	1) Digital Signal Processing 2) Embedded System 3) Robotics 4) Cyber Security

- 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.

Department of Electrical Engineering

ELECTIVE COURSE REQUEST FORM

	Date: 2010712023
Name of Students: Ansam Umair N	iser Ahmad.
Year of Study: 2013-24 Class:	BE.
Branch: (dealar)	

Types Of Elective Course	Name Of E	lective Course
Types of Elective Course	ODD Semester	Even Semester
Professional Elective Course	EECH	HNDC
Professional Elective Course	IES	EHV
Open Elective Course	13MI	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
1) Electrical Energy Conservation and	1) Power System Dynamics and	1) VLSI Design and Technology
Auditing	Control	2) Artificial Intelligence
2) Electrical Machines Modelling and	2) Power Electronics and	3) Virtual Reality
Analysis	Distributed Generation	(4) Bio-Medical Instrumentation
3) Power Generation and Economics	3) Industrial Electrical Systems	
4) Digital Control System	4) Power System Design Practice	

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
 Flexible AC Transmission System Power Quality Power Converter Applications HVDC Transmission Systems Power System Restructuring 	2) Advanced Electric Drives 3) EHVAC Transmission Systems	1) Digital Signal Processing 2) Embedded System 3) Robotics 4) Cyber Security

- 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)

						1					
		Teaching Scheme			Theory		Practical				
Name of the Course	Group	Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits
Electrical Drives	D	3	-	-	3	40	60	-	-	100	3
Professional Elective Course -III	Е	3	-	-	3	40	60	-	-	100	3
Professional Elective Course -IV	Е	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	Н	-	-	-	-	-	-	-	-	-	-
Tallotticage		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
1	Electrical Ellergy Colliser varion and Analysis		Power Electronics and Distributed Generation	2	Artificial Intelligence
	Electrical Machines Modelling and Analysis			3	Virtual Reality
3	Power Generation and Economics		Industrial Electrical Systems	- 4	
4	Digital Control System	4	Power System Design Practice	4	Bio-Medical Instrumentation



PRINCIPAL

Jamia Institute of Engineering
And Management Studies
aukallonya Dod. Handurbar(M.S.)

1/80

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

				11.00							
The same of the sa	6. 0		Teaching Scheme			Theory		Practical			
Name of the Course	Group	Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits
Power System Protection	D	3	-	-	3	40	60	-	-	100	3
Professional Elective Course - V	Е	3	-	-	3	40	60	-	-	100	3
Professional Elective Course -VI	Е	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	P	rofessional 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
1	Power System Restructuring	4	Illumination Engineering	4	Cyber Security



PRINCIPAL

Jamia Institute of Engineering
And Management Studies

at the Management Studies

2/80

Department of Electrical Engineering

ELECTIVE COURSE REQUEST FORM

Date: 201 07 2003

Name of Students: Baga Year of Study: 2023-2		ilip———————————————————————————————————
Branch: Electrical	<u> </u>	ective Course
Types Of Elective Course	ODD Semester	Even Semester
Professional Elective Course	FTED	EMD

Name: .

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

Diegoz	
Professional Elective Course – I 1 Signals and Systems 2) Electrical Installation, Estimation and Distribution 3) Solid State Devices and Circuits 4) Advance Measurement and Instrumentation	Open Elective Course – I 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)

La Floring Course – II	Open Elective Course - II
Professional 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:-

Open Elective Course

- 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.

Department of Electrical Engineering

ELECTIVE COURSE REQUEST FORM

		Date: 30/ 07/ 2023
٠	-	- 1 11.

Name of Students: Mohammad	Sh	mi	Famidoddin
Year of Study: 2023 - 24	Class:		€
Branch: Electrical			

Types Of Elective Course	Name Of El	ective Course	
Types of Elective Course	ODD Semester	Even Semester	
Professional Elective Course	EIED	EMD	
Open Elective Course	18	PPE	

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	1) Fluid Mechanics and Machinery
2) Electrical Installation, Estimation and	2) Electronics Measurement
Distribution	3) Internet of Things
3) Solid State Devices and Circuits	4) Industrial Safety
4) Advance Measurement and	
Instrumentation	Α

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	1) Power Plant Engineering
2) Advance Power Electronics	2) Linear Integrated Circuits and
3) Non-Conventional Energy System	Applications
4) Electrical Machine Design	3) Digital Logic and State Machine
	Design
	4) Heat Transfer and Refrigeration
1 (A)	- Use to

- > 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.

Department of Electrical Engineering

ELECTIVE COURSE REQUEST FORM

Name of Studen	ts: Odel	Masoed	Ahmud	
Year of Study: _	1		TE	

Branch: Cleonsical

m 00m 4 0	Name Of El	ctive Course	
Types Of Elective Course	ODD Semester	Even Semester	
Professional Elective Course	EIED	EMD	
Open Elective Course	Is	PPE	

Name: Signature of Students

Date: 70/07/ 2023

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	1) Fluid Mechanics and Machinery
2) Electrical Installation, Estimation and	2) Electronics Measurement
Distribution	3) Internet of Things
3) Solid State Devices and Circuits	4) Industrial Safety
4) Advance Measurement and	The state of the s
Instrumentation	, at

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

- > 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.

Department of Electrical Engineering

ELECTIVE COURSE REQUEST FORM

		Date: 20 04 Per
Name of Students: Puril	Typest	Suresh
Year of Study: 2023-24	Class: _	TE.
Branch: Personal		

Types Of Elective Course	Name Of I	Elective Course
Types of Elective Course	ODD Semester	Even Semester
Professional Elective Course	ETED	EMD
Open Elective Course	Is	PPE

Name: Signature of Students

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	1) Fluid Mechanics and Machinery
2) Electrical Installation, Estimation and	2) Electronics Measurement
Distribution	3) Internet of Things
3) Solid State Devices and Circuits	4) Industrial Safety
4) Advance Measurement and	
Instrumentation	

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

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

- 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.

Department of Electrical Engineering

ELECTIVE COURSE REQUEST FORM

			Date: 201071207
Name of Students:	Mulasshir	Oli	
Year of Study: 2023-24	Class:	TE	
Branch: Electrical			

Types Of Elective Course	Name Of Elective Course	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ODD Semester	Even Semester
Professional Elective Course	EIED	Emo
Open Elective Course	Is	PPG

Signature of Students

Name:

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

Professional Elective Course – I	Open Elective Course - I
 Signals and Systems Electrical Installation, Estimation and Distribution Solid State Devices and Circuits 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

- 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.

Department of Electrical Engineering

ELECTIVE COURSE REQUEST FORM

Date: 10/07/7023

	Date. 201 Off Tou
Name of Students: Nasawe	Prougati Ranoi
Year of Study: 1023-25	Class:
Branch: Hecken	

Types Of Elective Course	Name Of Elective Course	
Jan 24 2000 Course	ODD Semester	Even Semester
Professional Elective Course	EIED	EMD
Open Elective Course	Js	PPE

Signature of Students

Name:

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	1) Fluid Mechanics and Machinery
2) Electrical Installation, Estimation and	2) Electronics Measurement
Distribution	3) Internet of Things
3) Solid State Devices and Circuits	4) Industrial Safety
4) Advance Measurement and	
Instrumentation	A A b

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	2) Power Plant Engineering 2) Linear Integrated Circuits and Applications 3) Digital Logic and State Machine Design 4) Heat Transfer and Refrigeration

- > 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.

Department of Electrical Engineering

ELECTIVE COURSE REQUEST FORM

	Dates OF FIND COS
Name of Students: Shaich	Hayer Anwar.
Year of Study: 2013-24	Class: TE
Branch: Geoman	

Types Of Elective Course	Name Of Elective Course	
Types of Elective Course	ODD Semester	Even Semester
Professional Elective Course	FIED	EMD
Open Elective Course	13	PPE

Signature of Students

Name

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	1) Fluid Mechanics and Machinery
2) Electrical Installation, Estimation and	2) Electronics Measurement
Distribution	3) Internet of Things
3) Solid State Devices and Circuits	4) Industrial Safety
4) Advance Measurement and	
Instrumentation	A

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

Professional Elective Course - II	Open Elective Course – II
 Industrial Automation Advance Power Electronics Non-Conventional Energy System 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
197 0	,

- > 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 - VI) (Electrical) (w. e. f. 2020 - 21)(As per AICTE Guidelines)

A Charles in the	3-11-	Teaching Scheme				Evaluation Scheme					
Name of the Course	Group	Theory	Tutorial Practical			Theory		Practical			1
Control System	D	Hrs / week	rs / Hrs / ek week	Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits
Microprocessor and	р_	3	-	-	3	40	60			100	
Microcontroller	D	3	-	-,	3	40	60			100	3
Power System-II	D	3							-	100	3
Professional Elective Course – II	Е	3			3	40	60	-		100	3
Open Elective Course – II	F	3	-		3	40	60	-		100	3
Control System Lab	D		-	-	3	40	60		-	100	3
Microprocessor and				2	2	-	-	25	25(OR)	50	
Microcontroller Lab Power System-II Lab	D	-	-	2	2	-	-7	25	25(PR)	50	1
Minor Project	D	-	-	2	2	-	-	25			
nternship – II*	G	-	-	6	6		-		-	25	1
	Н		-	-	-	-		50	25(OR)	75	3
TOP -		15	0	12	27	200	700		-	-	-
ISE: Internal Session	ıal Examir	ation	FSE. End	Semester Ex			300	125	75	700	21

Control Examination	ESE: End Sen	nester E	xamination	ICA: Intern	al Conti	nuous Asse	essmer
Professional Elective Course	- II		Ope	n Elective Cour			
1 Industrial Automation 2 Advance Power Electronics 3 Non-Conventional Energy System 4 Electrical Machine Design		1 2 3 4	Power Plant E Linear Integra Digital Logic		Applicat	ions	

^{*} 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

Source

2/79

PRINCIPAL
Jamia Institute of Engineering
And Management Studies
ANKalkuwa Dist. Nandurbar(M.S.)

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

		Teaching Scheme Evaluation Scheme									
	. 17	reaching Scheme			Theory		Practical			1	
Name of the Course	Group	Theory Hrs / week	Tutorial Hrs / week	Practical Hrs / week	Total	ISE	ESE	ICA	ESE	Total	Credits
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	Е	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	25(OK)	50	3
Constitution of India		-	-	 	 			30	<u> </u>	30	3
		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		Electronics Measurement
3	Solid State Devices and Circuits	3	Internet of Things
4	Advance Measurement and Instrumentation	4	Industrial Safety

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

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

1/79