## (Mirpur University of Science & Technology) Scheme of Studies B.Sc. Electrical Engineering

**Revised Scheme of Studies 2022-26** 

Revised Benefic of Buddles 2022-20				
8-14 Semesters (4-7 Academic Years)				
136				
6				
S/U Basis				
92				
92				
92				
05 (60 00/)				
95 (69.9%)				
41 (30.1%)				
41 (30.170)				

	Semester 1				
Code	Course Title	Knowledge Area	Credit Hours	Contact Hours	Pre- requisites
EE-111	Linear Circuit Analysis	Foundation	3	3	
EE-111L	Linear Circuit Analysis Lab		1	3	
EE-112	Introduction to Computing	Comment of the commen	1	1	
EE-112L	Introduction to Computing Lab	- Computing	1	3	
EE-113L	Workshop Practice Lab	Foundation	1	3	
GS-114	Applied Physics	Notared Colores	3	3	
GS-114L	Applied Physics Lab	- Natural Sciences	1	3	
GS-115	Calculus and Analytical Geometry	Humanities and Social	3	3	
HS-116	Functional English	Sciences	3	3	
	Total		17	25	
	Semester 2				
Code	Course Title	Knowledge Area	Credit Hours	Contact Hours	Pre- requisites
EE -121	Programming Fundamentals	Comment of the commen	3	3	
EE -121L	Programming Fundamentals Lab	- Computing	1	3	
CE -122	Health Safety and Environment	IDEE-1	3	3	
EE -123	Basic Electronics	- Foundation	3	3	
EE -123L	Basic Electronics Lab	- Foundation	1	3	
GS -124	Linear Algebra	Natural Scicences	3	3	
HS -125	Communication Skills	Humanities and Social	2	2	
HS -126	Islamic Studies	Sciences	2	2	
	Total		18	22	
	Semester 3				
Code	Course Title	Knowledge Area	Credit Hours	Contact Hours	Pre- requisites
EE-231	Electrical Network Analysis	- Foundation	3	3	Both (EE-111, EE-111L) must
EE-231L	Electrical Network Analysis Lab	- Foundation	1	3	be passed.
EE-232	Data Structures and Algorithms	Committee	2	2	Both (EE-121,
EE-232L	Data Structures and Algorithms Lab	- Computing	1	3	EE-121L) must be passed.
EE-233	Digital Logic Design	Form dotters	3	3	
EE-233L	Digital Logic Design Lab	- Foundation	1	3	
HS-234	Pakistan and Kashmir Studies	Humanities and Social Sciences	2	2	
GS-235	Differential Equations	Natural Sciences	3	3	
	Total		16	19	

Corde	Semester 4					
Description		Semester 4		G III		<b>.</b>
Ele-241L   Electrical Machines Lab   Ele-242L   Signal and Systems   Foundation   1   3   3   3   5	Code	Course Title	Knowledge Area			
EE-241L   Electrical Matchines Lab	EE-241	Electrical Machines	Core (Breadth)	3	3	
EE-2421	EE-241L	Electrical Machines Lab	Core (Breatth)	1	3	
EE-2421   Signal and Systems Lab   1   3   3	EE-242	Signal and Systems	Foundation	3	3	
EB-244L   Engineering Drawing Lab	EE-242L	Signal and Systems Lab	- 00-1000	1	3	
FF-2411   Engineering Drawing Lab	EE-243	Probability Methods in Engineering	Foundation	3	3	
Second   S	EE-244L	Engineering Drawing Lab		1	3	
Semester 5   Semester 5	HS-245	Technical Report Writing		3	3	
Semester 5	GS-246	Complex Variables and Transforms	Natural Sciences	3	3	
Code				18	24	
Code		Semester 5		ı	ı	
EE-351L   Linear Control Systems Lab   Core (Breadth)   1   3     EE-352	Code	Course Title	Knowledge Area			
EE.3511.   Linear Control Systems Lab	EE-351	Linear Control Systems	Caro (Broadth)	3	3	
EE-3521.   Microprocessor Systems Lab	EE-351L	Linear Control Systems Lab	Core (breadth)	1	3	
EE-3521	EE-352	Microprocessor Systems	Caro (Proadth)	2	2	
EE-354    Power Electronics   Depth Elective (P)   3   3   3	EE-352L	Microprocessor Systems Lab	Core (Breauth)	1	3	
Breadth Core-1 (E)   1   3   1   1   3   1   1   3   1   1	EE-353	Electromagnetic Field Theory	Foundation	3	3	
HS-355   Engineering Ethics	EE-354	Power Electronics	Depth Elective (P)	3	3	
RS-355   Engineering Ethics   Sciences   2   2   2	EE-354L	Power Electronics Lab	Breadth Core-I (E)	1	3	
Total   Semester 6	HS-355	Engineering Ethics		2	2	
Code   Course Title   Knowledge Area   Credit Hours   Pre-requisites		Total		16	22	
Code		Semester 6				
EE-361L   Communication Systems Lab   Core (Breadth)   1   3   EE-4742 must be passed.		Semester 6				
EE-361L   Communication Systems Lab	Code		Knowledge Area		Contact	
EE-362 Instrumentation and Measurements  EE-363 Instrumentation and Measurements Lab  Depth Elective (P/E/C)  EE-363L Instrumentation and Measurements Lab  Depth Elective (P/E/C)  Depth Elective (P/E/C)  1 3 3  GS-365 Numerical Analysis  Natural Sciences  Total  Semester 7 (Power)  Code  Course Title  Contact Hours  EE-471 Power System Analysis  EE-471L Power System Analysis Lab  EE-472 Power Distribution and Utilization  EE-472L Power Distribution and Utilization Lab  EE-473 Power Generation  EE-474 Electrical Power Transmission  EE-474L Electrical Power Transmission Lab  EE-484 Final Year Project  Sciences  3 3 3  Credit Hours  Credit Hours  Pre-requisites  Analysis Analysis Breadth Core-I (P)  1 3 3  Breadth Core-II (P)  1 3 3  Depth Elective (P)  3 3 3  Depth Elective (P)  3 3 3  EE-474 Electrical Power Transmission Lab  EE-484 Final Year Project  Senior Design Project  3 9		Course Title		Hours	Contact Hours	requisites  Both (EE-242,
EE-363	EE-361	Course Title  Communication Systems		Hours 3	Contact Hours	requisites  Both (EE-242, EE-242L) must
EE-363L   Instrumentation and Measurements Lab   IDEE   3   3   3	EE-361 EE-361L	Course Title  Communication Systems  Communication Systems Lab	Core (Breadth)  Humanities and Social	Hours 3 1	Contact Hours 3	requisites  Both (EE-242, EE-242L) must
GS-365 Numerical Analysis  Total  Total  Semester 7 (Power)  Code  Course Title  Code  Code  Code  Course Title  Code  C	EE-361 EE-361L HS-362	Course Title  Communication Systems  Communication Systems Lab  Engineering Management and Entrepreneurship	Core (Breadth)  Humanities and Social Sciences	3 1 3	Contact Hours  3  3	requisites  Both (EE-242, EE-242L) must
Total   Semester 7 (Power)	EE-361 EE-361L HS-362 EE-363	Course Title  Communication Systems  Communication Systems Lab  Engineering Management and Entrepreneurship  Instrumentation and Measurements	Core (Breadth)  Humanities and Social Sciences	3 1 3 3	Contact Hours  3  3  3	requisites  Both (EE-242, EE-242L) must
Code   Course Title   Knowledge Area   Credit Hours   Pre-requisites	EE-361 EE-361L HS-362 EE-363	Course Title  Communication Systems  Communication Systems Lab  Engineering Management and Entrepreneurship  Instrumentation and Measurements  Instrumentation and Measurements Lab	Core (Breadth)  Humanities and Social Sciences  Depth Elective (P/E/C)	Hours  3 1 3 1 1 1	Contact Hours  3  3  3  3	requisites  Both (EE-242, EE-242L) must
CodeCourse TitleKnowledge AreaCredit HoursContact HoursPre-requisitesEE-471Power System AnalysisBreadth Core-I (P)33EE-471LPower System Analysis Lab13EE-472Power Distribution and UtilizationBreadth Core-II (P)33EE-472LPower Distribution and Utilization Lab13EE-473Power GenerationDepth Elective (P)33EE-474Electrical Power TransmissionDepth Elective (P)33EE-474LElectrical Power Transmission LabDepth Elective (P)13EE-484Final Year ProjectSenior Design Project39	EE-361 EE-361L HS-362 EE-363 EE-363L	Course Title  Communication Systems  Communication Systems Lab  Engineering Management and Entrepreneurship  Instrumentation and Measurements  Instrumentation and Measurements Lab  IDEE	Core (Breadth)  Humanities and Social Sciences  Depth Elective (P/E/C)  IDEE	Hours  3 1 3 1 3 1 3	Contact Hours  3 3 3 3 3	requisites  Both (EE-242, EE-242L) must
Code   Course little   Knowledge Area   Hours   Hours   requisites	EE-361 EE-361L HS-362 EE-363 EE-363L	Communication Systems Communication Systems Lab Engineering Management and Entrepreneurship Instrumentation and Measurements Instrumentation and Measurements Lab IDEE Numerical Analysis	Core (Breadth)  Humanities and Social Sciences  Depth Elective (P/E/C)  IDEE	Hours  3  1  3  1  3  1  3  3  3	Contact Hours  3 3 3 3 3 3	requisites  Both (EE-242, EE-242L) must
EE-471L Power System Analysis Lab  EE-472 Power Distribution and Utilization  EE-472L Power Distribution and Utilization Lab  EE-473 Power Generation  EE-474 Electrical Power Transmission  EE-474 Electrical Power Transmission Lab  EE-474 Final Year Project  Breadth Core-I (P)  3 3  Breadth Core-II (P)  1 3  Depth Elective (P)  3 3  Depth Elective (P)  3 3  3 3  Depth Elective (P)  3 9	EE-361 EE-361L HS-362 EE-363 EE-363L	Communication Systems Communication Systems Lab Engineering Management and Entrepreneurship Instrumentation and Measurements Instrumentation and Measurements Lab IDEE Numerical Analysis Total	Core (Breadth)  Humanities and Social Sciences  Depth Elective (P/E/C)  IDEE  Natural Sciences	Hours  3  1  3  1  3  1  3  3  3	Contact Hours  3 3 3 3 3 3	requisites  Both (EE-242, EE-242L) must
EE-471L Power System Analysis Lab  EE-472 Power Distribution and Utilization  EE-472L Power Distribution and Utilization Lab  EE-473 Power Generation  EE-474 Electrical Power Transmission  EE-474L Electrical Power Transmission Lab  EE-474L Final Year Project  Depth Elective (P)  3 3 3  Breadth Core-II (P)  1 3  2 3  3 3  Depth Elective (P)  3 3 3  Depth Elective (P)  3 3 9	EE-361 EE-361L HS-362 EE-363 EE-363L GS-365	Communication Systems Communication Systems Lab Engineering Management and Entrepreneurship Instrumentation and Measurements Instrumentation and Measurements Lab IDEE Numerical Analysis Total Semester 7 (Pow	Core (Breadth)  Humanities and Social Sciences  Depth Elective (P/E/C)  IDEE  Natural Sciences	Hours  3 1 3 1 3 1 7 Credit	Contact Hours  3 3 3 3 3 21  Contact	Both (EE-242, EE-242L) must be passed.  Pre-
EE-472L Power Distribution and Utilization Lab  EE-473 Power Generation  EE-474 Electrical Power Transmission  EE-474L Electrical Power Transmission Lab  EE-484 Final Year Project  Breadth Core-II (P)  1 3  Depth Elective (P)  3 3  Depth Elective (P)  1 3  Senior Design Project  3 9	EE-361 EE-361L HS-362 EE-363 EE-363L GS-365	Course Title  Communication Systems  Communication Systems Lab  Engineering Management and Entrepreneurship  Instrumentation and Measurements  Instrumentation and Measurements Lab  IDEE  Numerical Analysis  Total  Semester 7 (Pow	Core (Breadth)  Humanities and Social Sciences  Depth Elective (P/E/C)  IDEE  Natural Sciences  Ter)  Knowledge Area	Hours  3  1  3  1  3  1  Credit Hours	Contact Hours  3 3 3 3 3 21  Contact Hours	Both (EE-242, EE-242L) must be passed.  Pre-
EE-472L Power Distribution and Utilization Lab  EE-473 Power Generation  EE-474 Electrical Power Transmission  EE-474L Electrical Power Transmission Lab  EE-474L Final Year Project  Depth Elective (P)  3  3  4  5  5  5  6  5  6  7  7  8  7  8  7  8  7  8  7  8  7  8  7  8  8	EE-361 EE-361L HS-362 EE-363 EE-363L GS-365 Code EE-471	Course Title  Communication Systems  Communication Systems Lab  Engineering Management and Entrepreneurship  Instrumentation and Measurements  Instrumentation and Measurements Lab  IDEE  Numerical Analysis  Total  Semester 7 (Pow  Course Title  Power System Analysis	Core (Breadth)  Humanities and Social Sciences  Depth Elective (P/E/C)  IDEE  Natural Sciences  Ter)  Knowledge Area	Hours  3 1 3 1 3 1 7 Credit Hours 3	Contact Hours  3 3 3 3 3 21  Contact Hours	Both (EE-242, EE-242L) must be passed.  Pre-
EE-474 Electrical Power Transmission  EE-474L Electrical Power Transmission Lab  EE-484 Final Year Project Senior Design Project 3 9	EE-361 EE-361L HS-362 EE-363 EE-363L GS-365 Code EE-471 EE-471L	Course Title  Communication Systems  Communication Systems Lab  Engineering Management and Entrepreneurship  Instrumentation and Measurements  Instrumentation and Measurements Lab  IDEE  Numerical Analysis  Total  Semester 7 (Pow  Course Title  Power System Analysis Lab	Core (Breadth)  Humanities and Social Sciences  Depth Elective (P/E/C)  IDEE  Natural Sciences  Ver)  Knowledge Area  Breadth Core-I (P)	Hours  3 1 3 1 3 1 7 Credit Hours 3 1	Contact Hours  3 3 3 3 3 21  Contact Hours  3 3 3 3 3 3 3 3	Both (EE-242, EE-242L) must be passed.  Pre-
EE-474L Electrical Power Transmission Lab  EE-484 Final Year Project Senior Design Project 3 9	EE-361 EE-361L HS-362 EE-363 EE-363L GS-365 Code EE-471 EE-471L EE-472	Course Title  Communication Systems  Communication Systems Lab  Engineering Management and Entrepreneurship  Instrumentation and Measurements  Instrumentation and Measurements Lab  IDEE  Numerical Analysis  Total  Semester 7 (Pow  Course Title  Power System Analysis Lab  Power Distribution and Utilization	Core (Breadth)  Humanities and Social Sciences  Depth Elective (P/E/C)  IDEE  Natural Sciences  Ver)  Knowledge Area  Breadth Core-I (P)	Hours  3 1 3 1 3 1 7 Credit Hours 3 1 3	Contact Hours  3 3 3 3 3 21  Contact Hours  3 3 3 3 3 3 3	Both (EE-242, EE-242L) must be passed.  Pre-
EE-474L Electrical Power Transmission Lab  EE-484 Final Year Project Senior Design Project 3 9	EE-361 EE-361L HS-362 EE-363 EE-363L GS-365 Code EE-471 EE-471L EE-472L	Course Title  Communication Systems Communication Systems Lab  Engineering Management and Entrepreneurship Instrumentation and Measurements Instrumentation and Measurements Lab  IDEE  Numerical Analysis  Total  Semester 7 (Pow  Course Title  Power System Analysis Lab  Power Distribution and Utilization  Power Distribution and Utilization Lab	Core (Breadth)  Humanities and Social Sciences  Depth Elective (P/E/C)  IDEE  Natural Sciences  Yer)  Knowledge Area  Breadth Core-I (P)  Breadth Core-II (P)	Hours  3 1 3 1 3 1 7 Credit Hours 3 1 3 1	Contact Hours  3 3 3 3 3 21  Contact Hours  3 3 3 3 3 3 3 3 3	Both (EE-242, EE-242L) must be passed.  Pre-
	EE-361 EE-361L HS-362 EE-363 EE-363L GS-365 Code EE-471 EE-471L EE-472L EE-472L	Course Title  Communication Systems  Communication Systems Lab  Engineering Management and Entrepreneurship  Instrumentation and Measurements  Instrumentation and Measurements Lab  IDEE  Numerical Analysis  Total  Semester 7 (Pow  Course Title  Power System Analysis  Power System Analysis Lab  Power Distribution and Utilization  Power Generation	Core (Breadth)  Humanities and Social Sciences  Depth Elective (P/E/C)  IDEE  Natural Sciences  Ter)  Knowledge Area  Breadth Core-I (P)  Breadth Core-II (P)  Depth Elective (P)	Hours  3 1 3 1 3 1 7 Credit Hours 3 1 3 1 3 1 3	Contact Hours  3 3 3 3 3 21  Contact Hours  3 3 3 3 3 3 3 3	Both (EE-242, EE-242L) must be passed.  Pre-
Total 18 30	EE-361 EE-361L HS-362 EE-363 EE-363L GS-365 Code EE-471 EE-471L EE-472 EE-472L EE-473 EE-474	Course Title  Communication Systems Communication Systems Lab  Engineering Management and Entrepreneurship Instrumentation and Measurements Instrumentation and Measurements Lab IDEE  Numerical Analysis  Total  Semester 7 (Pow  Course Title  Power System Analysis Lab  Power Distribution and Utilization  Power Distribution and Utilization Lab  Power Generation  Electrical Power Transmission	Core (Breadth)  Humanities and Social Sciences  Depth Elective (P/E/C)  IDEE  Natural Sciences  Ter)  Knowledge Area  Breadth Core-I (P)  Breadth Core-II (P)  Depth Elective (P)	Hours  3 1 3 1 3 17 Credit Hours 3 1 3 1 3 3 1 3 1	Contact Hours  3 3 3 3 3 21  Contact Hours 3 3 3 3 3 3 3 3 3	Both (EE-242, EE-242L) must be passed.  Pre-
	EE-361 EE-361L HS-362 EE-363 EE-363L GS-365 Code EE-471 EE-471L EE-472 EE-472L EE-472L EE-474	Course Title  Communication Systems Communication Systems Lab  Engineering Management and Entrepreneurship Instrumentation and Measurements Instrumentation and Measurements Lab  IDEE  Numerical Analysis  Total  Semester 7 (Pow  Course Title  Power System Analysis Lab  Power Distribution and Utilization  Power Distribution and Utilization Lab  Power Generation  Electrical Power Transmission  Electrical Power Transmission Lab	Core (Breadth)  Humanities and Social Sciences  Depth Elective (P/E/C)  IDEE  Natural Sciences  Ter)  Knowledge Area  Breadth Core-I (P)  Breadth Core-II (P)  Depth Elective (P)	Hours  3 1 3 1 3 1 3 17 Credit Hours 3 1 3 1 1 3 1	Contact Hours  3 3 3 3 3 21  Contact Hours  3 3 3 3 3 3 3 3 3 3 3	Both (EE-242, EE-242L) must be passed.  Pre-

	Semester 7 (Electr	ronics)			
Code	Course Title	Knowledge Area	Credit Hours	Contact Hours	Pre- requisites
EE-471	Introduction to Nanotechnology	Depth Elective (E)	3	3	
EE-472	Digital System Design	Danish Elastina (E)	3	3	Both (EE-233, EE-233L) must
EE-472L	Digital System Design Lab	Depth Elective (E)	1	3	be passed.
EE-473	Electronic Circuit Design	Duna dela Carra I (E)	3	3	
EE-473L	Electronic Circuit Design Lab	Breadth Core-I (E)	1	3	
EE-474	Digital Signal Processing	Devale Florida (F)	3	3	Both (EE-242,
EE-474L	Digital Signal Processing Lab	Depth Elective (E)	1	3	EE-242L) must be passed.
EE-484	Final Year Project	Senior Design Project	3	9	
	Total		18	30	
	Semester 7 (Commu	nication)			
Code	Course Title	Knowledge Area	Credit Hours	Contact Hours	Pre- requisites
EE-471	Digital Communication	Depth Elective (C)	3	3	
EE-472	Computer Communication Networks	D M C I(O)	3	3	
EE-472L	Computer Communication Networks Lab	Breadth Core-I (C)	1	3	
EE-473	Electronic Circuit Design	P M C H (C)	3	3	
EE-473L	Electronic Circuit Design Lab	Breadth Core-II (C)	1	3	
EE-474	Digital Signal Processing	D 41 FL 41 (C)	3	3	Both (EE-242,
EE-474L	Digital Signal Processing Lab	Depth Elective (C)	1	3	EE-242L) must be passed.
EE-484	Final Year Project	Senior Design Project	3	9	
	Total		18	30	
	Semester 8 (Power/ Electronics	s/ Communication)			
Code	Course Title	Knowledge Area	Credit Hours	Contact Hours	Pre- requisites
HS-481	Engineering Economics	Humanities and Social	3	3	
HS-482	Arabic	Sciences	2	2	
	Engineering Depth Elective-I (Power/ Electronics/ Communication)		3	3	
	Engineering Depth Elective-I Lab (Power/ Electronics/ Communication)  Depth Elective (P/E/C)	Depth Elective (P/E/C)	1	3	
	Engineering Depth Elective-II (Power/ Electronics/ Communication)	Depth Elective (P/E/C)	3	3	
	Engineering Depth Elective-II Lab (Power/ Electronics/ Communication)	(=, =, =)	1	3	
EE-484	Final Year Project	Senior Design Project	3	9	
	Total		16	26	

	List of Elective Courses	(Power)			
Code	Course Title	Knowledge Area	Credit Hours	Contact Hours	Pre- requisites
EE-48E1	Power System Protection		3	3	
EE-48E1L	Power System Protection Lab		1	3	
EE-48E2	Renewable Energy Systems		3	3	
EE-48E2L	Renewable Energy Systems Lab		1	3	
EE-48E3	Power System Operation and Control		3	3	
EE-48E3L	Power System Operation and Control Lab		1	3	
EE-48E4	Smart Grid		3	3	
EE-48E4L	Smart Grid Lab	Depth Electives	1	3	
EE-48E5	High Voltage Engineering		3	3	
EE-48E5L	High Voltage Engineering Lab		1	3	
EE-48E6	Artificial Intelligence		3	3	
EE-48E6L	Artificial Intelligence Lab		1	3	
EE-48E7	Electrical Machine Design		3	3	
EE-48E7L	Electrical Machine Design Lab		1	3	
	List of Elective Courses (E	Electronics)	_		
Code	Course Title	Knowledge Area	Credit Hours	Contact Hours	Pre- requisites
EE-48E1	VLSI Design		3	3	
EE-48E1L	VLSI Design lab		1	3	
EE-48E2	Embedded System Design		3	3	
EE-48E2L EE-48E3	Embedded System Design Lab Opto-electronics		3	3	
EE-48E3L	Opto-electronics Lab		1	3	
EE-48E4	Medical Robotics		3	3	
EE-48E4L	Medical Robotics Lab		1	3	
EE-48E5	RF and Microwave Engineering	Depth Electives	3	3	EE-353
EE-48E5L	RF and Microwave Engineering Lab	Depth Electives	1	3	EE-333
EE-48E6	Artificial Intelligence		3	3	
EE-48E6L EE-48E7	Artificial Intelligence Lab  Biomedical Instrumentation		3	3	
EE-48E7L	Biomedical Instrumentation Lab		1	3	
EE-48E8	Wave Progpagation and Antennas		3	3	
EE-48E8L	Wave Progpagation and Antennas Lab		1	3	EE-353
EE-48E9	Integrated Electronics		3	3	
EE-48E9L	Integrated Electronics Lab	•	1	3	
	List of Elective Courses (Con	mmunication)			_
Code	Course Title		Credit Hours	Contact Hours	Pre- requisites
EE-48E1	Wireless and Mobile Communications		3	3	
EE-48E1L	Wireless and Mobile Communications Lab		1	3	
EE-48E2	Optical Communication		3	3	
EE-48E2L	Optical Communication Lab		1	3	
EE-48E3	Navigation and Radar Systems		3	3	
EE-48E3L	Navigation and Radar Systems Lab		1	3	
EE-48E4	Digital Image Processing		3	3	
EE-48E4L	Digital Image Processing Lab		1	3	
EE-48E5	RF and Microwave Engineering	Depth Electives	3	3	EE-353
EE-48E5L	RF and Microwave Engineering Lab	Depth Electives	1	3	
EE-48E6	Artificial Intelligence		3	3	
EE-48E6L	Artificial Intelligence Lab		1	3	
EE-48E7	Biomedical Instrumentation		3	3	
EE-48E7L	Biomedical Instrumentation Lab		1	3	
EE-48E8	Wave Progpagation and Antennas		3	3	
EE-48E8L	Wave Progpagation and Antennas Lab		1	3	EE-353
EE-48E9	Satellite Communication		3	3	
EE-48E9L	Satellite Communication Lab		1	3	
	List of IDEEs				
Code	Course Title	Knowledge Area	Credit Hours	Contact Hours	Pre- requisites
ME-36E1	Engineering Mechanics		3	3	
ME-36E1L	Engineering Mechanics Lab		1	3	
ME-36E2	Applied Thermodynamics		3	3	
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