5 Year Dual Degree Programme (Electrical Engineering, Batch 2015 onwards)

	•	SEMESTER-I			Course
					type
Sr. No.	Subject Code	Courses	L-T-P	Credits	
Sr. 140.	Jun j	THEORY			
1	PH102	Engineering Physics	3-1-0	4	С
2	MA101	Engineering Mathematics - I	3-1-0	4	С
$-\frac{2}{3}$	MEI01	Engineering Mechanics	2-1-0	3	С
4	CS101	Computer Programming - I	2-0-0	2	SEC
5	EE102	Electrical Technology	2-1-0	3	C
6	EN101	English Proficiency	2-0-0	2	AECC
7	2	Open Elective	2-0-0	2	OE1
		PRACTICALS			
8	PH104	Engineering Physics Lab	0-0-2	1	С
9	ME102	Engg. Workshop	0-0-3	2	С
10	CS181	Computer Programming Lab-I	0-0-2	Ì	SEC
11	EE104	Electrical Technology Lab	0-0-2	1	С
12	GP	General Proficiency		NC	
		Total	·	25	
		Total Contact Hours		29	

Open Elective OE1: Courses offered from other school

inpen puter P ectricia retrisia Para

(1) Could

- 5hm

		SEMESTER - II		•	Course
	L C Linet Code		1 (11)		type
Sr. No.	Subject Code	Courses	L-T-P	Credits	
		<u>THEORY</u>			
1	CY101	Engineering Chemistry	3-1-0	4	С
2	MA102	Engineering Mathematics - II	3-1-0	4	С
3	ES101	Environment Studies	2-1-0	3	AECC
4	CS102	Computer Programming - II	2-0-0	2	SEC
5	EC101	Basic Electronics	2-1-0	3	С
6	EN102	Professional Communication	2-0-0	2	AECC
7	BS101	Human Values & Buddhist Ethics	2-0-0	2	AECC
		PRACTICALS			
8	CY103	Engineering Chemistry	0-0-2	1	С
9	EC181	Basic Electronics Lab	0-0-2	1	С
10	CE103	Engineering Graphics	0-0-3	2	С
11	CS182	Computer Programming Lab-II	0-0-2	1	SEC
11	GP	General Proficiency	-	NC	
		Total		25	
		Total Contact Hours	2	29	
		· .			

\$ | 2 2 7 | 38 91

Control Carlo (Dlavland)

Shaland

•

<u> </u>		SEMESTER-III			
Sr. No.	Subject Code	Courses	L-T-P	Credits	Course
		THEORY			type
1	MA201	Engineering Mathematics-III	3-1-0	4	-
2	EE201	Electrical Engineering Materials	2-0-0	2	C
3	EE203	Network Theory	3-0-0	3	· C
4	EE-221	Electrical Measurement and Measuring Instruments	3-0-0		C
5	EE207	Electrical Machine-I	3-0-0	.3	С
6		GE		3	С
		PRACTICALS	3-0-0	3	E-GE1
7	EE233	Network Theory Lab	0.0.0		
8	EE211	Electrical Machine - I Lab	0-0-3	2	С
9	EE231		0-0-3	2	С
	•	Electrical Measurement & Measuring Instrument Lab	0-0-3	. 2	С
10	GP	C. ID a			
		General Proficiency	•	NC	
	·	Total		24	
		Total Contact Hour	27		

GE: Generic Elective should be relevant subject selected from relevant department

- CS205 Data Structure and Algorithms
 - EC202Analog Communication
- Or any other relevant subject offered

A D

basa 8 | 8 | 15

0-0-15

			- 1 1		
		SEMESTER - IV	L-T-P	Credits	Course
Sr.	Subject Code	Courses		·	type
10.		THEORY		4	·C
	MA202	Numerical and Statistical Analysis	3-1-0	2	·C
$\frac{1}{2}$	EE202	Measurement and Instrumentation	2-0-0	2	C
2	EE204	Electromagnetic Field Theory	3-0-0	3	C
4	EE226	Signals & Systems	3-0-0	3 .	C
5	EE208	Power System-I	3-0-0	3	C
6	EE210	Electrical Machine -II PRACTICALS			
		MATLAB Programming Lab	0-0-3	2	SEC
7	EE218	Electrical Machine - II	0-0-3	2	. C
8	EE214	Measurements and Instrumentation Lab	0-0-2	1	С
9	EE216	39.5		110	
	GP	General Proficiency		NC 32	
10	- OI	Total	5.	27	
· ·	1	Total Contact Hour	* .	Z1 .	

Plant Wall

		SEMESTER - V			
Sr.	Subject Code	Courses	L-T-P	Credits	Course type
No.		THEORY			
	EE301	Power System-II	3-0-0	3	С
1	EE303	Electronic Devices & Circuits (EDC)	3-0-0	.3	С
2	EE305	Control System-I	3-0-0	3	C
3	EE-307	Communication Systems	3-0-0	3	C.
4		Power Electronics	3-0-0	3	С
5	EE309	Open Elective	3-0-0	3	OE2
6		PRACTICALS			
	EE313	Control System Lab	0-0-3	2	С
7		Electronic Devices & Circuits (EDC) (Lab in ICT)	0-0-3	2	С
8	EE317	Power Electronics Lab	0-0-3	. 2	С
9	EE319	1 OWEL DISSUENCE 201			
	CP	General Proficiency		NC	
10	GP	Total	,	24	
<u> </u>		Total Contact Hours		27	

Open Elective OE2

Courses offered from other school

Phabel 15

Shirt

		SEMESTER - VI			
Sr.	Subject Code	Courses	L-T-P	Credits	Course type
No.		THEORY			
1	EE302	Electric Drives	3-0-0	3	С
$\frac{1}{2}$	EE304	Switchgear and Protection	3-0-0	3	С
$\frac{2}{3}$	EE306	Digital Electronics	3-0-0 .	3	С
4	EE308	Control System-II	3-0-0	3 .	С
	EE310	Digital Signal Processing	3-0-0	3	С
6	CE318	Disaster Management	2-0-0	2	E-GE2
		PRACTICALS			
7	EE322	Switchgear and Protection Lab	0-0-3	2	С
8	EE344	Digital Electronics Lab (In ICT)	0-0-3	2	С
9	EE366	Electric Drives Lab	0-0-3	2	С
-					
10	GP	General Proficiency		NC	
-		Total		23	
		Total Contact Hours		25	

GE: Generic Elective should be selected from relevant department

-- Emir 0-0.15

	T	SEMESTER – VII			
Sr. No.	Subject Code	Courses	L-T-P	Credus	ľ
		THEORY			+
1	MA406/MA507/M	Operation Research /Optimization Techniques/	3-1-0	4	+
	A402/ME401	Modeling and Simulation/Power Plant	3-1-0	4	
		Engineering			
2	EE401	Micro Processor & Micro Controller	3-0-0	2	-
3	EE571	Power System Analysis and Control	3-0-0	3	_
4		Elective -I	3-0-0	3	_
5		Elective II	_	3	
6		Elective - III	3-0-0	3	
			3-0-0	3	
7	EE591	PRACTICALS			
8	EE499	Power System Lab	0-0-3	2	
9	EE597	Micro processor & Micro Controller Lab	0-0-3	2	
		Seminar	0-0-3	2	
0	GP				
-	GP -	General Proficiency	-	NC	
		Total		25	
		Total Contact Hours	27	7	
	-				
.	SEMESTE	R – VIII (Specialization in M.Tech. PS/PED/IC	E)		
- 1	Subject Code	Courses	L-T-P	Credits	
		Blectiv :-		0 " 0 0 1 1 0	
1		THEORY			
		Total			-
	Mit	echII rd semester curriculum		23	

		UMMER SEMESTER (AFTER VIII SEMESTER)			Cou
Sr. No.	Subject Code	Comme			Ту
_1,	EE600	Summer Project/Indust : 1.77	L-T-P	Credits	
		_		5	ED
		Total		5	
		Total Contact Hours			
• • • •	• • •	Glavi Jule			

7 V-1

SEMESTER - IX (Specialization in M.Tech. PS/PED/IC)						
Sr. No.	Subject Code	Courses	L-T-P	Credits		
		M.TechIII rd semester curriculum				
		Total	22			

	SEMESTER - X (Specialization in M.Tech. PS/PED/IC)						
Sr. No.	Subject Code	Courses	L-T-P	Credits			
	M.Tech	n. (Power Systems)-IV th semester curriculum					
		Total	22				

List of Electives for Integrated M.Tech (EE)

Elective-I, II & II

- 1. EE407: Utilization of Electric Power & SCADA Systems (Credits:3-0-0)
- 2. EE423: Transducers in Instrumentation (Credits:3-0-0)
- 3. EE425: Ultrasonic, Laser and Fiber Optic Based Instrumentation (Credits:3-0-0)
- 4. EE427: Microelectronics Technology (Credits:3-0-0)
- 5. EE579: Failure Data Organization and Analysis (Credits:3-0-0)
- 6. EE581: Restructured Power System (Credits:3-0-0)
- 7. EE575: Renewable & Non Conventional Energy Sources(Credits:3-0-0)
- 8. EE585: Power Converters and its Applications (Credits:3-0-0)
- 9. EE573: Power System Transients (Credits:3-0-0)
- 10. EE551: Introduction to MEMS (Credits:3-0-0)
- 11. EE543: Embedded Systems (Credits:3-0-0)
- 12. EE531: Advance Instrumentation(Credits:3-0-0)
- 13. EE535: Optimal Control Theory(Credits:3-0-0)
- 14. EE533: Advance Control Theory
- 15. EE501: Power Electronics Devices and Magnetics
- 16. EE503: Modeling of Electrical Apparatus
- 17. EE505: DC Power Converters
- 18. EE437: Project Engineering & Management (Credits:3-0-0)
- 19. EE 441: Low Power VLSI Circuits & Systems(Credits:3-0-0)
- 20. EE443:Introduction to VLSI
- 21. EE445: Utilization of Electrical Energy and Traction
- 22. EE453: High Voltage Engineering
- 23. EE455: Computer Applications to Electrical Engineering
- 24. EE457: Research Methodology for Electrical Engg.
- 25. M.Tech. (Power Systems) Electives; M.Tech (I & C) Electives; M.Tech. (PED) Courses

10th BOS – August 10th 2015

T.

Page 8

0