Jharkhand University of Technology, Ranchi

Course Structure

5^{th} & 6^{th} Semester

Department of Electrical Engineering

Department of Electrical Engineering
Course structure

5th Semester

S.No	Course Code	Subject	L	T	P	Credit
01	EE501	Electrical Machine-II	4	1	0	4
02	EE502	Principles of Control Systems	3	1	0	3
03	EE503	Microprocessor and Microcontroller	3	1	0	3
04		Professional Elective-I	3	1	0	3
05		Open Elective-I	3	1	0	3
	Laboratory/ Sessional					
01	EE501P	Electrical Machine-II Lab	0	0	3	1
02	EE502P	Principles of Control Systems Lab	0	0	3	1
03	EE503P	Microprocessor and Microcontroller Lab	0	0	3	1
04	EE504P	Basic Computational Lab	0	0	3	1
05	EE505P	General Proficiency/Seminar	0	0	3	2
Total credit						22

Professional Elective-I	
EE511	Signal & System
EE512	Electrical Machine Design
EE513	Transforms in Electrical Engineering
EE514	Applied Electrical Engineering

Open Elective-I	
EE521	Power Plant Engineering
EE522	Industrial Instrumentation and Automation
EE523	Principles of Control Systems*
EE524	Electromechanical Energy Conversion and Transformers*
Any paper floated by the other department can be selected/ opted by the Electrical Engineering Students	

***This course is not offered to Electrical Engineering students.**

Department of Electrical Engineering
Course structure

6th Semester

S.No	Course Code	Subject	L	T	P	Credit
01	EE601	Power Systems-II	4	1	0	4
02	EE602	Power Electronics	3	1	0	3
03	EE603	Advanced Control Systems	3	1	0	3
04		Professional Elective-II	3	1	0	3
05		Open Elective-II	3	1	0	3
06						
	Laboratory/ Sessional					
01	EE601P	Power System-II Lab	0	0	3	1
02	EE602P	Power Electronics Lab	0	0	3	1
03	EE603P	Simulation Lab	0	0	3	1
04	EE604P	Electrical Workshop	0	0	3	1
05		Internship/Tour & Training/Industrial Training	0	0	3	2
Total credit						22

Professional Elective-II	
EE611	Electrical Estimation and Costing
EE612	Electrical Engineering Materials
EE613	Power System Restructuring
EE614	Green Energy Technology

Open Elective-II	
EE621	Advanced Control Systems*
EE622	Soft Computing Techniques
EE623	Power Electronics*
EE624	Mine Electrical Engineering*
EE625	Green Energy Technology*
Any paper floated by the other department can be selected/ opted by the Electrical Engineering Students	

***This course is not offered to Electrical Engineering students.**