

Syllabus Revision in 2018 Regulations

R-18 syllabus was framed based on AICTE instructions whereas R-16 syllabus is based on students feedback, based on GATE and UPSC exam syllabus.

Open Elective Courses are introduced where students can register in MOOCS and complete the course in stipulated time duration and can produce certificates to get them added in their final marks statements. Internships are also included. E-Learning subjects are added and number of electives are increased.

Circuits and Field Theory

R-16		R-18	
EET02	Network Analysis	EEEST204	Basic Electrical Engineering
EET 03	Circuit Theory	EEPCT302	Electro Magnetic Fields
EET04	Electromagnetic Fields	EEPCT303	Electrical Circuit Analysis

In Electromagnetic Fields R-18 syllabus clear explanation of vector calculus and Electromagnetic Waves are added to make the students understand it more clearly

Power Systems

R-16		R-18	
EET11	Power systems-I	EEPCT401	Power systems-I
EET14	Power Systems- II	EEPCT502	Power Systems- II
EET18	Power System Analysis	EEPCT601	Power Systems - III
EET23	Power System Protection	EEPET 701.1	Power System Protection
EEL03	High Voltage DC Transmission	EEPET 801.1	HVDC Transmission System

Based on AICTE instructions major changes were made in syllabus. In HVDC multi terminal systems and stability analysis are added.

New chapters like Economic operation of power systems and Control of Frequency and Voltage, Digital Protection are included in R-18 syllabus

Electric Machines

R-16		R-18	
EET06	Electromechanical Energy Conversion – I	EEPCT304	Electrical Machines – I
EET12	Electromechanical Energy Conversion – II	EEPCT404	Electrical Machines – II
EET15	Electromechanical Energy Conversion - III		

In R-18 Electromechanical Energy Conversion-I is titled as Electrical Machines –I and Magnetic Circuits concept is included here

In R-18 Electromechanical Energy Conversion-II & Electromechanical Energy Conversion-III are combined as Electrical Machines-II.

Control Systems

R-16		R-18	
EET13	Linear Control Systems	EEPCT501	Control Systems
EET16	Advanced Control Systems	EEPCT 604.1	Control System Design
		EEPCT 604.2	Digital Control Systems

In R-18 Linear Control systems title is changed to Control Systems and State variable Analysis concept is included

In R-18 new subjects like Control System Design, Digital Control Systems are included with more advanced topics .

Power Electronics

R-16		R-18	
EET19	Power Electronics	EEPCT602	Power Electronics
EET21	Power Semiconductor Controlled Drives	EEPCT 801.3	Advanced Electrical Drives


In R-18, title Power Semiconductor Drives is changed to Advanced Electrical Drives and included topics like Power switching devices.

Advanced topics like Power Converters for AC drives, Permanent magnet motor drives Switched reluctance motor drives, DSP based motion control are considered

Electronics

R-16		R-18	
EET18	Microprocessors and Applications	ECPCT503	Microprocessors
EET05	Signals and Systems	ECPCT403	Signals & Systems
EET06	Analog Electronics	ECPCT305	Analog Electronics
EET07	Digital Logic Design	ECPCT402	Digital Electronics
EET12	Pulse and Digital Circuits		
EET13	Analog and IC Applications		
EET03	Semiconductor Devices		

In R-18 Microprocessors and applications title is changed to Micro Processors. Some of the electronics subjects are added with additional topics.


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