

Date:- 20/05/2021

Sindhudurg Shikshan Prasark Mandal's College of Engg. Kankavli.

## **NOTICE**

**(Equivalent/Alternate Subjects of Rev 2012 to Rev 2016 Scheme/Syllabus)**

All the students (FE ,SE and TE) are hereby informed that all the subjects of Rev 2012 are converted into Rev 2016 syllabus. There will be no examination for Rev 2012 henceforth ( Sem-I to Sem-VI) . The students who have their backlogs of Rev 2012 should refer these equivalent subjects to appear for the examination. This is applicable for First Year (FE), Second Year (SE) and Third Year (TE) Engineering examination from first half of 2021. However, BE Sem. VII and Sem. VIII students have already filled examination forms for exam starting from 1st June, 2021. Hence this equivalence will be applicable to them from Second Half of 2021 examination (i.e. Nov/Dec, 2021 examination) . Please check the list below for the same .



*Pravali*  
*20/05/21*

**EXAM CELL**



First Year Engineering: Equivalent Subjects (Rev-2012 to Rev 2016)

Rev-2012 scheme 'A' ( Semester-I)			Rev-2016 scheme 'B'( Semester-I)		
Sr. No	Subject Code	Subject Name	Subject Code	Subject Name	Se me ster
Semester-I					
1.	FEC101	Applied Mathematics I	FEC101	Applied Mathematics-I	I
2.	FEC102	Applied Physics-I	FEC102	Applied Physics-I	I
3.	FEC103	Applied Chemistry-I	FEC103	Applied Chemistry-I	I
4.	FEC104	Engineering Mechanics	FEC104	Engineering Mechanics	I
5.	FEC105	Basic Electrical Engineering	FEC105	Basic Electrical Engineering	I
6.	FEC106	Environmental Studies	FEC106	Environmental Studies	I
7.	FEL101	Workshop Practice-I	FEL101	Workshop Practice-I	I
R-2012 scheme 'A' ( Semester-II)			R-2016 scheme 'B' ( Semester-II)		
1.	FEC201	Applied Mathematics-II	FEC201	Applied Mathematics-II	II
2.	FEC202	Applied Physics-II	FEC202	Applied Physics-II	II
3.	FEC203	Applied Chemistry-II	FEC203	Applied Chemistry-II	II
4.	FEC204	Engineering Drawing	FEC204	Engineering Drawing	II
5.	FEC205	Structured Programming Approach	FEC205	Structured Programming Approach	II
6.	FEC206	Communication Skills	FEC206	Communication Skills	II
7.	FEL201	Workshop Practice-II	FEL201	Workshop Practice-II	II



Mechanical Engineering: Equivalent Subjects (Rev-2012 to Rev 2016)

Sr No	SCHEME R-2012 CBGS		SCHEME R-2016 CBCGS		
	Subject	Subject Name	Su	Subject Name	Sem
SEM III					
1	MEC301	Applied Mathematics III	MEC301	Applied Mathematics III	III
2	MEC302	Thermodynamics	MEC302	Thermodynamics	III
3	MEC303	Strength of Materials	MEC303	Strength of Materials	III
4	MEC304	Production Process- I	MEC304	Production Process I	III
SEM-IV					
1	MEC401	Applied Mathematics IV	MEC401	Applied Mathematics IV	IV
2	MEC402	Fluid Mechanics	MEC402	Fluid Mechanics	IV
3	MEC403	Theory of Machines- I	MEC405	Kinematics of Machinery	IV
4	MEC404	Production Process- II	MEC404	Production Process II	IV
5	MEC405	Material Technology	MEC305	Material Technology	III
6	MEC406	Industrial Electronics	MEC403	Industrial Electronics	IV
SEM-V					
1	MEC501	I. C. Engines	MEC501	Internal Combustion Engines	V
2	MEC502	Mechanical Measurements	MEC502	Mechanical Measurements and	V
3	MEC503	Production Process-III	MEDLO5013	Design of Jigs and Fixtures	V
4	MEC504	Theory of Machines- II	MEC504	Dynamics of Machinery	V
5	MEC505	Heat Transfer	MEC503	Heat Transfer	V
SEM-VI					
1	MEC601	Metrology and Quality	MEC601	Metrology and Quality engineering	VI
2	MEC602	Machine Design I	MEC602	Machine Design I	VI
3	MEC603	Mechanical Vibrations	MEDLO7031	Mechanical Vibrations	VII
4	MEC604	Thermal and Fluid Power	MEC803	Power Engineering	VIII
5	MEC605	Mechatronics	MEDLO6021	Mechatronics	VI
6	MEC606	Finite Element Analysis	MEC603	Finite Element analysis	VI
SEM-VII					
1	MEC701	Machine Design -II	MEC701	Machine Design II	VII
2	MEC702	CAD/CAM/CAE	MEC702	CAD/CAM/CAE	VII
3	MEC703	Mechanical Utility Systems	MEDLO7033	Pumps, Compressors and Fans	VII
4	MEC704	Production Planning and	MEC703	Production Planning and Control	VII
5	MEE701X	Elective- I	MEDLO703X	Department Level Optional Course	VII
6	MEP701	Project- I	MEP701	Project I	VII
SEM-VIII					
1	MEC801	Design of Mechanical Systems	MEC801	Design of Mechanical Systems	VIII
2	MEC802	Industrial Engineering and	MEC802	Industrial Engineering and	VIII
3	MEC803	Refrigeration and Air	MEC604	Refrigeration and Air Conditioning	VI
4	MEE802X	Elective- II	MEDLO804X	Department Level Optional Course	VIII
5	MEP802	Project- II	MEL803	Project II	VIII

### Electrical Engineering: Equivalent Subjects (Rev-2012 to Rev 2016)

Sr No	SCHEME R-2012 CBGS		SCHEME R-2016 CBCGS			
	Subject Code	Subject Name	Subject Code	Subject Name	Sem	Branch
SEM III						
1	EEC301	Applied Mathematics - III	EEC301	Applied Mathematics - III	III	Electrical
2	EEC302	Electronic Devices and Circuits	EEC302	Electronic Devices and Circuits	III	Electrical
3	EEC303	Conventional and Nonconventional Power Generation	EEC303	Conventional and Non-Conventional Power Generation	III	Electrical
4	EEC304	Electrical Networks	EEC406	Electrical Network	IV	Electrical
5	EEC305	Electrical and Electronic Measurements	EEC304	Electrical and Electronics Measurement	III	Electrical
6	EEC306	Object Oriented Programming and Methodology	EEL302	Object Oriented Programming and Methodology Lab	III	Electrical
SEM-IV						
1	EEC401	Applied Mathematics -IV	EEC401	Applied Mathematics - IV	IV	Electrical
2	EEC402	Elements of Power System	EEC402	Power System - I	IV	Electrical
3	EEC403	Electrical Machines –I	EEC305	Electrical Machine –I	III	Electrical
4	EEC404	Signal Processing	EEC603	Signal Processing	VI	Electrical
5	EEC405	Analog and Digital Integrated Circuits	EEC405	Analog and Digital Integrated Circuits	IV	Electrical
6	EEC406	Numerical Methods and Optimization Techniques	CHC401	Applied Mathematics- IV	IV	Chemical
SEM-V						
1	EEC501	Protection and Switchgear Engineering	EEC601	Protection and Switchgear Engineering	VI	Electrical
2	EEC502	Electrical Machines - II	EEC502	Electrical Machines – III	V	Electrical
3	EEC503	Electromagnetic Fields and Waves	EEC404	Electromagnetic Field and wave	IV	Electrical
4	EEC504	Power Electronics	EEC504	Power Electronics	V	Electrical
5	EEC505	Communication Engineering	EEDLO5011	Communication Engineering	V	Electrical
6	EEC506	Business Communication and Ethics	EEL501	Business Communication and Ethics	V	Electrical
SEM-VI						

1	EEC601	Power System Analysis	EEC501	Power System - II	V	Electrical
2	EEC602	Electrical Machines – III	EEC602	Electrical Machines – IV	VI	Electrical
3	EEC603	Utilization of Electrical Energy	EEDLO5013	Utilization of Electrical Energy	V	Electrical
4	EEC604	Control System – I	EEC503	Control System - I	V	Electrical
5	EEC605	Microcontroller and its Applications	EEC604	Microcontroller and its Applications	VI	Electrical
6	EEC606	Project Management	ILO8021	Project Management	VIII	Electrical
SEM-VII						
1	EEC701	Power System Operation and Control	EEC701	Power System - III	VII	Electrical
2	EEC702	High Voltage DC Transmission	EEC703	High Voltage Direct Current	VII	Electrical
3	EEC703	Electrical Machine Design	EEC403	Electrical Machines – II	IV	Electrical
4	EEC704	Control System – II	EEC605	Control System - II	VI	Electrical
5	EEE701	High Voltage Engineering	EEDLO7031	High Voltage Engineering	VII	Electrical
6	EEE702	Analysis and Design of Power Switching	EEDLO6023	Advanced Power Electronics	VI	Electrical
7	EEE703	Power System Modelling	EEDLO8043	Power System Modeling and	VIII	Electrical
8	EEE704	Digital Signal Controllers and its Application	EEDLO6021	Digital Communication	VI	Electrical
9	EEE705	Advanced Lighting Systems	EEDLO8041	Illumination Engineering	VIII	Electrical
10	EEE706	Renewable Energy and Energy Storage Systems	EEDLO5012	Renewable Energy and Energy Storage	V	Electrical
11	EEE707	Optimization Techniques and its Applications	ILO7015	Operation Research	VII	Electrical
SEM-VIII						
1	EEC801	Design, Management and Auditing of Electrical Systems	EEC801	Design, Management and Auditing of Electrical Systems	VIII	Electrical
2	EEC802	Drives and Control	EEC702	Drives and Control	VII	Electrical
3	EEC803	Power System Planning and Reliability	EEDLO8044	Power System Planning and Reliability	VIII	Electrical
4	EEE801	Flexible AC Transmission Systems	EEC802	Flexible AC Transmission	VIII	Electrical
5	EEE802	Electric and Hybrid Electric Vehicle Technology	EEDLO7032	Electric Vehicle Technology	VII	Electrical
6	EEE803	Power Quality	EEDLO7034	Power Quality	VII	Electrical
7	EEE804	Smart Grid Technology	EEDLO8042	Smart Grid	VIII	Electrical

8	EEE805	Power System Dynamics and Control	EEDLO8043	Power System Modeling and Control	VIII	Electrical
9	EEE806	Non-linear Control System	EEDLO7033	Industrial Controller	VII	Electrical
10	EEE807	Entrepreneurship Development	ILO8023	Entrepreneurship Development and Management	VIII	Electrical



**Computer Engineering: Equivalent / Alternate Subjects (Rev-2012 to Rev-2016)**

Sr. No	SCHEME R-2012 CBGS		SCHEME R-2016 CBCGS		
	Subject Code	Subject Name	Subject Code	Subject Name	Sem
<b>SEMESTER- III</b>					
1	CSC301	Applied Mathematics III	CSC301	Applied Mathematics -III	III
2	CSC302	Object Oriented Programming Methodology	CSL304	OOPM(Java) Lab	III
3	CSC303	Data Structures	CSC305	Data Structures	III
4	CSC304	Digital Logic Design and Analysis	CSC302	Digital Logic Design and Analysis	III
5	CSC305	Discrete Structures	CSC303	Discrete Mathematics	III
6	CSC306	Electronic Circuits and Communication Fundamentals	CSC304	Electronic Circuits and Communication Fundamentals	III
<b>SEMESTER-IV</b>					
1	CSC401	Applied Mathematics IV	CSC401	Applied Mathematics- IV	IV
2	CSC402	Analysis of Algorithms	CSC402	Analysis of Algorithms	IV
3	CSC403	Computer Organization and Architecture	CSC403	Computer Organization and Architecture	IV
4	CSC404	Data Base Management systems	CSC502	Database Management System	V
5	CSC405	Theoretical Computer Science	CSC504	Theory of Computer Science	V
6	CSC406	Computer Graphics	CSC404	Computer Graphics	IV
<b>SEMESTER-V</b>					
1	CPC501	Microprocessor	CSC501	Microprocessor	V
2	CPC502	Operating Systems	CSC405	Operating System	IV
3	CPC503	Structured and Object Oriented Analysis and Design	CSL601	Software Engineering Lab	VI
4	CPC504	Computer Networks	CSC503	Computer Network	V
5	CPL501	Web Technologies Laboratory	CSL504	Web Design Lab	V
6	CPL502	Business Communication and Ethics	CSL505	Business Comm. & Ethics	V
<b>SEMESTER-VI</b>					
1	CPC601	System Programming and Compiler Construction	CSC602	System Programming & Compiler Construction	VI
2	CPC602	Software Engineering	CSC601	Software Engineering	VI
3	CPC603	Distributed Databases	CSDLO6022	Advance Database System	VI
4	CPC604	Mobile Communication and Computing	CSC702	Mobile Communication & Computing	VI
5	CPE601X	Elective-I			
	CPE6011	Operation Research	ILO7015	Operation Research	VII
	CPE6012	Project Management	ILO7013	Management Information System	VII
	CPE6013	Foreign Language :German	ILO7016	Cyber Security and Laws	VII

	CPE6014	Foreign Language : French	ILO8028	Digital Business Management	VIII
6	CPL601	Network Programming Laboratory	CSL502	Computer Network Lab	V
SEMESTER-VII					
1	CPC701	Digital Signal Processing	CSC701	Digital Signal & Image Processing	VII
2	CPC702	Cryptography and System Security	CSC604	Cryptography & System Security	VI
3	CPC703	Artificial Intelligence	CSC703	Artificial Intelligence & Soft Computing	VII
4	CPE7042X	Elective-II			
	CPE7021	Advance Algorithms	CSDLO5013	Advance Algorithm	V
	CPE7022	Computer Simulation and Modeling	DLO8011	High Performance Computing	VIII
	CPE7023	Image Processing	CSDLO5011	Multimedia System	V
	CPE7024	Software Architecture	ILO8021	Project Management	VIII
	CPE7025	Soft Computing	CSL703	Artificial Intelligence & Soft Computing Lab	VII
	CPE7026	ERP and Supply Chain Management	CSDLO6023	Enterprise Resource Planning	VI
5	CPP701	Project I	CSM705	Major Project-I	VII
6	CPL701	Network Threats and Attacks Laboratory	CSL702	Mobile App. Development. Tech. Lab	VII
SEMESTER-VIII					
1	CPC801	Data Warehouse and Mining	CSC603	Data Warehousing & Mining	VI
2	CPC802	Human Machine Interaction	CSC801	Human Machine Interaction	VIII
3	CPC803	Parallel and distributed Systems	CSC802	Distributed Computing	VIII
4	CPE803X	Elective-III			
	CPE8031	Machine Learning	CSDLO6021	Machine Learning	VI
	CPE8032	Embedded Systems	CSDLO7033	Robotics	VII
	CPE8033	Adhoc wireless networks	DLO8013	Adhoc Wireless Network	VIII
	CPE8034	Digital Forensic	CSDLO7031	Advance System Security & Digital Forensics	VII
	CPE8035	Big data Analytics	CSDLO7032	Big Data & Analytics	VII
5	CPP802	Project II	CSM805	Major Project II	VIII
6	CPL801	Cloud Computing Laboratory	CSL802	Cloud Computing Lab	VIII

Semester III Electronics and Telecommunication Engineering						
Code	R_2012 CBSGS Subjects	Semester	CodeR_2016 CBCGS Subjects	Code	Semester	Equivalence /Alternate
ETS-301	Applied Mathematics III	III	Applied Mathematics III	ECC-301	III	Equivalence
ETC-302	Analog Electronics I	III	Electronic Devices and Circuits I	ECC-302	III	Equivalence
ETC-303	Digital Electronics	III	Digital System Design	ECC-303	III	Equivalence
ETC-304	Circuits and Transmission Lines	III	Circuit Theory and Networks	ECC-304	III	Equivalence
ETC-305	Electronic Instruments and Measurements	III	Electronic Instrumentation and Control	ECC-305	III	Equivalence
Semester IV Electronics and Telecommunication Engineering						
ETS-401	Applied Mathematics IV	IV	Applied Mathematics IV	ECC-401	IV	Equivalence
ETC-402	Analog Electronics II	IV	Electronic Devices and Circuits II	ECC-402	IV	Equivalence
ETC-403	Microprocessors and Peripherals	IV	Microprocessor & Peripherals Interfacing	ECC-501	V	Equivalence
ETC-404	Wave Theory and Propagation	IV	Electromagnetic Engineering	ECC-503	V	Equivalence
ETC-405	Signals and Systems	IV	Signals & Systems	ECC-404	IV	Equivalence
ETC-406	Control Systems	IV	Electronic Instrumentation and Control	ECC-305	III	Equivalence
Semester V Electronics and Telecommunication Engineering						
ETC-501	Microcontrollers and Applications	V	Microcontrollers & Applications	ECC-601	VI	Equivalence
ETC-502	Analog Communication	V	Principles of Communication Engineering	ECC-405	IV	Equivalence
ETC-503	Random Signal Analysis	V	Digital Communication	ECC-502	V	Alternate
ETC-504	RF Modeling and Antennas	V	Antenna & Radio Wave Propagation	ECC-603	VI	Equivalence
ETC-505	Integrated Circuits	V	Linear Integrated Circuits	ECC-403	IV	Equivalence
Semester VI Electronics and Telecommunication Engineering						
Code	R_2012 CBSGS Subjects	Semester	CodeR_2016 CBCGS Subjects	Code	Semester	Equivalence
ETC-601	Digital Communication	VI	Digital Communication	ECC-502	V	Equivalence
ETC-602	Discrete Time Signal Processing	VI	Discrete Time Signal Processing	ECC-504	V	Equivalence
ETC-603	Computer Communication and Telecom Networks	VI	Computer Communication Networks	ECC-602	VI	Equivalence
ETC-604	Television Engineering	VI	TV & Video Engineering	ECCDLO-5012	V	Equivalence
ETC-605	Operating Systems	VI	Operating Systems	CSC-405	IV	Equivalence
ETC-606	VLSI Design	VI	Digital VLSI Design	ECCDLO-6021	VI	Equivalence
Semester VII Electronics and Telecommunication Engineering						
ETC-701	Image and Video Processing	VII	Image Processing and Machine Vision	ECC-604	VI	Equivalence

ETC-702	Mobile Communication	VII	Mobile Communication System	ECC-702	VII	Equivalence
ETC-703	Optical Communication and Networks	VII	Optical Communication	ECC-703	VII	Equivalence
ETC-704	Microwave and Radar Engineering	VII	Microwave Engineering	ECC-701	VII	Equivalence
ETE-701	Data Compression and Encryption	VII	Data Compression and Encryption	ECCDLO-5014	V	Equivalence
ETE-702	Statistical Signal Processing	VII	Advanced Digital Signal Processing	ECCDLO-8042	VIII	Equivalence
ETE-703	Neural Network and Fuzzy Logic	VII	Neural Networks and Fuzzy Logic	ECCDLO-7031	VII	Equivalence
ETE-704	Analog and Mixed Signal VLSI	VII	CMOS Mixed Signal VLSI	ECCDLO-7034	VII	Equivalence
<b>Semester VIII Electronics and Telecommunication Engineering</b>						
ETC-801	Wireless Networks	VIII	Wireless Networks	ECC-802	VIII	Equivalence
ETC-802	Satellite communication and Networks	VIII	Satellite Communication	ECCDLO-8043	VIII	Equivalence
ETC-803	Internet and Voice Communication	VIII	Internet Communication Engineering	ECCDLO-7033	VII	Equivalence
ETE-801	Speech Processing	VIII	Audio Processing	ECCDLO-6024	VI	Alternate
ETE-802	Telecom Network Management	VIII	Network management in Telecommunication	ECCDLO-8044	VIII	Equivalence
ETE-803	Microwave Integrated Circuits	VIII	RF Design	ECC-801	VIII	Equivalence
ETE-804	UltraWideband Communication	VIII	Wireless Networks	ECC-802	VIII	Alternate

Electronics and Telecommunication Engineering: Subject Equivalence (Rev-2012 - Rev-2016)