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State Institute of Technical Teachers' Training & Research, Kalamassery

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PRINT SCHEME (/index.php?r=site%2Fdiploma-syllabus-print-scheme&scheme=REV2021&prog							
CURRICULUM REVISION 2021 - PROGRAMME S							
STATE BOARD OF TECHNICAL EDUCATION, KE							
TEACHING AND EXAMINATION SCHEME FOR DIPLOMA							
PROGRAM NAME : Electrical & Electronics Engineering							
PATTERN: FULL TIME							
DURATION OF PROGRAMME: 3 YEARS (6 SEMESTERS)							
SEMESTER: First Semester							
Sl. No.	Course Category	Course Code	Course Name	Teaching Scheme			
				Contact Hours/ week			
				L	T	P	Total
1.	Humanities & Social Sciences	1001 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=1001)	Communication Skills in English (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=1001)	4	0	0	4
2.	Basic Science	1002 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=1002)	Mathematics I (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=1002)	5	0	0	5

3.	Basic Science	1003 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=1003)	Applied Physics I (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=1003)	3	0	0	3
4.	Basic Science	1004 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=1004)	Applied Chemistry (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=1004)	3	0	0	3
5.	Engineering Science	1005 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=1005)	Engineering Graphics (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=1005)	0	0	3	3
6.	Basic Science	2006 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2006)	Applied Physics Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2006)	0	0	2	2
7.	Basic Science	1007 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=1007)	Applied Chemistry Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=1007)	0	0	2	2
8.	Engineering Science	1008 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=1008)	Introduction to IT systems Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=1008)	1	0	2	3
9.	Engineering Science	2009 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2009)	Engineering Workshop Practice (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2009)	0	0	3	3
10.	Humanities & Social Sciences	1009 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=1009)	Sports and Yoga (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=1009)	0	0	2	2
				16	0	14	30

PROGRAM NAME : Electrical & Electronics Engineering

SEMESTER: Second Semester

Sl. No.	Course Category	Course Code	Course Name	Teaching Scheme			
				Contact Hours/ week			
				L	T	P	Total
1.	Basic Science	2002 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2002)	Mathematics II (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2002)	4	0	0	4
2.	Basic Science	2003 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2003)	Applied Physics II (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2003)	3	0	0	3
3.	Common Courses	2001 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2001)	Environmental Science (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2001)	3	0	0	3
4.	Engineering Science	2031 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2031)	Fundamentals of Electrical & Electronics Engineering (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2031)	3	0	0	3
5.	Engineering Science	2032 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2032)	Elementary Concepts of Electrical Systems (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2032)	3	0	0	3
6.	Humanities & Social Sciences	2008 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2008)	Communication Skills in English Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2008)	0	0	3	3
7.	Basic Science	2006 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2006)	Applied Physics Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2006)	0	0	2	2

8.	Engineering Science	2039 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2039)	Fundamentals of Electrical & Electronics Engineering Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2039)	0	0	3	3
9.	Engineering Science	2038 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2038)	Engineering Graphics using CAD software (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2038)	0	0	3	3
10.	Engineering Science	2009 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2009)	Engineering Workshop Practice (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=2009)	0	0	3	3
				16	0	14	30

Summer Internship I to be conducted after Sem

1.	Common Courses	3009 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3009)	Internship I (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3009)	3 Weeks
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PROGRAM NAME : Electrical & Electronics Engineering

SEMESTER: Third Semester

Sl. No.	Course Category	Course Code	Course Name	Teaching Scheme			
				Contact Hours/ week			
				L	T	P	Total
1.	Programme core course	3031 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3031)	Analog & Digital Circuits (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3031)	3	1	0	4
2.	Programme core course	3032 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3032)	DC Machines & Traction Motors (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3032)	2	1	0	3

3.	Programme core course	3033 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3033)	Fundamentals of Electric Circuits (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3033)	3	1	0	4
4.	Programme core course	3034 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3034)	Electrical & Electronics Measuring Instruments (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3034)	3	1	0	4
5.	Programme core course	3035 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3035)	Mechanical Engineering (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3035)	2	1	0	3
6.	Programme core course	3036 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3036)	DC Machines Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3036)	0	0	3	3
7.	Programme core course	3037 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3037)	Electrical Measurements Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3037)	0	0	3	3
8.	Programme core course	3038 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3038)	Electrical Workshop Practice (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3038)	0	0	3	3
9.	Programme core course	3039 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3039)	Mechanical Engineering Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=3039)	0	0	3	3
				13	5	12	30

PROGRAM NAME : Electrical & Electronics Engineering

SEMESTER: Fourth Semester

Sl. No.	Course Category	Course Code	Course Name	Teaching Scheme			
				Contact Hours/ week			
				L	T	P	Tot

1.	Programme core course	4031 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4031)	Power Electronics Devices and Circuits (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4031)	3	1	0	4
2.	Programme core course	4032 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4032)	Electrical Installation Design & Estimation (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4032)	3	1	0	4
3.	Programme core course	4033 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4033)	Induction Machines (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4033)	3	1	0	4
4.	Common Courses	4001 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4001)	Community Skills in Indian knowledge system (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4001)	2	0	0	2
5.	Programme core course	4036 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4036)	Electronics Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4036)	0	0	3	3
6.	Programme core course	4037 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4037)	Induction Machines Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4037)	0	0	3	3
7.	Programme core course	4038 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4038)	Domestic Appliances Repair & Maintenance Workshop (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4038)	0	0	3	3
8.	Programme core course	4039 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4039)	Professional Practice Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4039)	0	0	3	3

9.	Minor project	4009 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4009)	Minor Project (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=4009)	0	0	4	4
				11	3	16	30

Summer Internship II to be conducted after Sem

1.	Common Courses	5009 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5009)	Internship II (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5009)	4 Weeks
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PROGRAM NAME : Electrical & Electronics Engineering

SEMESTER: Fifth Semester

Sl. No.	Course Category	Course Code	Course Name	Teaching Scheme			
				Contact Hours/ week			
				L	T	P	Total
1.	Common Courses	5001 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5001)	Industrial Management and Safety (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5001)	3	1	0	4
2.	Programme core course	5031 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5031)	Synchronous Machines & FHP Motors (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5031)	3	1	0	4
3.	Programme core course	5032 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5032)	Electricity Generation, Transmission & Distribution (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5032)	3	1	0	4
4.	Program Elective course	5033A (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5033A)	Renewable Energy Power Plant (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5033A)	4	0	0	4

	Program Elective course	5033B (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5033B)	Industrial Drives & Control (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5033B)	4	0	0	4
	Program Elective course	5033C (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5033C)	Switch Gear & Protection (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5033C)	4	0	0	4
5.	Programme core course	5037 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5037)	Synchronous Machines Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5037)	0	0	3	3
6.	Programme core course	5038 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5038)	Industrial Electrical Engineering Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5038)	0	0	3	3
7.	Program Elective course	5039A (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5039A)	Electrical Estimation Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5039A)	0	0	3	3
	Program Elective course	5039B (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5039B)	Applied Electronics Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5039B)	0	0	3	3
	Program Elective course	5039C (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5039C)	Solar Energy Technology Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5039C)	0	0	3	3
8.	Seminar	5008 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5008)	Seminar (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=5008)	0	0	2	2
9.	Major Project	6009 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6009)	Major Project (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6009)	0	0	3	3

			13	3	14	30
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The Student has two options to complete the sixth semester and he/she shall select any one

1. NORMAL PATHWAY

PROGRAM NAME : Electrical & Electronics Engineering

SEMESTER: Sixth Semester

Sl. No.	Course Category	Course Code	Course Name	Teaching Scheme			
				Contact Hours/ week			
				L	T	P	Total
1.	Humanities & Social Sciences	6001 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6001)	Entrepreneurship and Startup (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6001)	3	1	0	4
2.	Program Elective course	6031A (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6031A)	Energy Conservation & Audit (EE) (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6031A)	3	1	0	4
	Program Elective course	6031C (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6031C)	Microcontroller & PLC (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6031C)	3	1	0	4
	Program Elective course	6031D (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6031D)	Electric Vehicles (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6031D)	3	1	0	4
3.	Open Elective course	6032A (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6032A)	Solar Power Technologies (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6032A)	4	0	0	4
	Open Elective course	6032B (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6032B)	Energy Conservation & Management (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6032B)	4	0	0	4

	Open Elective course	6032C (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6032C)	Electrification of Residential Buildings (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6032C)	4	0	0	4
	Open Elective course	6032D (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6032D)	Electric Vehicles & Traction (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6032D)	4	0	0	4
4.	Common Courses	6002 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6002)	Indian Constitution (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6002)	2	0	0	2
5.	Programme core course	6037 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6037)	Electrical Computer Aided Drafting Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6037)	0	0	3	3
6.	Programme core course	6038 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6038)	Industrial Automation Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6038)	0	1	3	4
7.	Program Elective course	6039A (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6039A)	Applied Electrical Testing Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6039A)	0	0	3	3
	Program Elective course	6039B (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6039B)	Modelling and simulation Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6039B)	0	0	3	3
	Program Elective course	6039C (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6039C)	Advanced Solar Photovoltaic Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6039C)	0	0	3	3

8.	Major Project	6009 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6009)	Major Project (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6009)	0	0	6	6
				12	3	15	30

2. INTERNSHIP PATHWAY

PROGRAM NAME : Electrical & Electronics Engineering

SEMESTER: Sixth Semester

Sl. No.	Course Category	Course Code	Course Name	Teaching Scheme			
				Contact Hours/ week			
				L	T	P	Total
1.	Humanities & Social Sciences	6001 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6001)	Entrepreneurship and Startup (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6001)	3	1	0	4
2.	Common Courses	6002 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6002)	Indian Constitution (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6002)	2	0	0	2
3.	Programme core course	6037 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6037)	Electrical Computer Aided Drafting Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6037)	0	0	3	3
4.	Programme core course	6038 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6038)	Industrial Automation Lab (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6038)	0	1	3	4
5.	Internship	6007 (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6007)	Internship (/index.php?r=site%2Fdiploma-syllabus-course-contents&course=6007)	4 - 6 months per semester			
				5	2	6	13

Teaching Scheme : L-Lecture, T-Tutorial, P- Practical
Examination Type : T-Theory, P-Practical, D-Drawing
Examination Mode : B-Board Level, I-Institution Level
^ Carried over to next semester

IMPORTANT LINKS

- » [Home \(/index.php?r=site%2Fhome\)](/index.php?r=site%2Fhome)
- » [Sitemap \(/index.php?r=site%2Fsitemap\)](/index.php?r=site%2Fsitemap)
- » [Disclaimer \(/index.php?r=site%2Fdisclaimer\)](/index.php?r=site%2Fdisclaimer)

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