



Maharashtra State Board of Technical Education, Mumbai
K Scheme Curriculum Search (Draft Copy)

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Scheme	<div>K</div>
Program / Course	<div>TE-Diploma In Electronics & Computer Engg.</div>

Note : Please Click on Course Name / Course Code to View Curriculum
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Semester : Second

Sr No	Course Title	Abbreviation	Course Type	Course Code	Total IKS Hrs for Sem.	Learning Scheme					Credits	Assessment Scheme												
						Actual Contact Hrs./Week			Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week		Paper Duration (hrs.)	Theory				Based on LL & TL				Based on Self Learning		Total Marks	
						CL	TL	LL									Practical							
													FA- TH	SA- TH	Total		FA-PR		SA-PR		SLA			
Max	Max	Max	Min	Max	Min	Max	Min	Max	Min															
General (Gen) Compulsory - 8																								
1	APPLIED MATHEMATICS	AMS	AEC	312301	2	3	1	-	-	4	2	3	30	70	100	40	-	-	-	-	-	-	100	
2	BASIC ELECTRONICS	BEL	AEC	312314	0	4	-	4	-	8	4	3	30	70	100	40	50	20	25@	10	-	-	175	
3	ELEMENTS OF ELECTRICAL ENGINEERING	EEE	SEC	312315	2	3	-	2	1	6	3	3	30	70	100	40	25	10	25@	10	25	10	175	
4	PROFESSIONAL COMMUNICATION	PCO	SEC	312002	0	-	-	2	-	2	1	-	-	-	-	-	25	10	25@	10	-	-	50	
5	SOCIAL AND LIFE SKILLS	SFS	VEC	312003		-	-	1	1	2	1	-	-	-	-	-	25	10	-	-	25	10	50	
6	ELECTRONICS WORKSHOP PRACTICE	EWP	SEC	312008		-	-	4	2	6	3	-	-	-	-	-	25	10	25@	10	25	10	75	
7	PROGRAMMING IN 'C' LANGUAGE	CPR	SEC	312009	0	2	-	2	2	6	3	-	-	-	-	-	25	10	25@	10	25	10	75	
8	WEB PAGE DESIGN	WET	SEC	312013	0			4	2	6	3	-	-	-	-	-	25	10	50@	20	25	10	100	
Total					4	12	1	19	8	40	20		90	210	300		200		175		125		800	

Abbreviations : CL- Classroom Learning , TL- Tutorial Learning, LL-Laboratory Learning, FA - Formative Assessment,SA -Summative Assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment

Legends : @ Internal Assessment, # External Assessment, *# On Line Examination , @\$ Internal Online Examination

Note :

1. FA-TH represents average of two class tests of 30 marks each conducted during the semester.
2. If candidate is not securing minimum passing marks in FA-PR of any course then the candidate shall be declared as "Detained" in that semester.
3. If candidate is not securing minimum passing marks in SLA of any course then the candidate shall be declared as fail and will have to repeat and resubmit SLA work.
4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.* 15 Weeks
5. 1 credit is equivalent to 30 Notional hrs.
6. * Self learning hours shall not be reflected in the Time Table.

Course Category : Discipline Specific Course Core (DSC) : 0, Discipline Specific Elective (DSE) : 0, Value Education Course (VEC) : 1, Intern./Apprenti./Project./Community (INP) : 0, AbilityEnhancement Course (AEC) : 2, Skill Enhancement Course (SEC) : 5, GenericElective (GE) : 0

Semester : Third

Sr No	Course Title	Abbreviation	Course Type	Course Code	Total IKS Hrs for Sem.	Learning Scheme					Credits	Assessment Scheme												
						Actual Contact Hrs./Week			Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week		Paper Duration (hrs.)	Theory				Based on LL & TL				Based on Self Learning		Total Marks	
						CL	TL	LL									Practical							
													FA- TH	SA- TH	Total		FA-PR		SA-PR		SLA			
Max	Max	Max	Min	Max	Min	Max	Min	Max	Min															
General (general) Compulsory - 6																								
1	ESSENCE OF INDIAN CONSTITUTION	EIC	VEC	313304		1			1	2	1	-	-	-	-	-	-	-	-	-	50	20	50	
2	DATABASE MANAGEMENT SYSTEM	DMS	DSC	313302		3	1	4	2	10	5	3	30	70	100	40	50	20	25#	10	25	10	200	
3	OBJECT ORIENTED PROGRAMMING USING C++	OOP	SEC	313305		3	2	4	1	10	5	3	30	70	100	40	50	20	25@	10	25	10	200	
4	ANALOG ELECTRONICS	ATE	DSC	313320		3	-	4	1	8	4	3	30	70	100	40	25	10	25#	10	25	10	175	
5	DIGITAL TECHNIQUES	DTE	AEC	313322		3	-	2	1	6	3	3	30	70	100	40	25	10	25#	10	25	10	175	
6	EDA TOOLS	EDT	SEC	313008		-	-	4	-	4	2	-	-	-	-	-	25	10	25@	10	-	-	50	
Total					0	13	3	18	6	40	20		120	280	400		175		125		150		850	

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Note :

1. FA-TH represents average of two class tests of 30 marks each conducted during the semester.
2. If candidate is not securing minimum passing marks in FA-PR of any course then the candidate shall be declared as "Detained" in that semester.
3. If candidate is not securing minimum passing marks in SLA of any course then the candidate shall be declared as fail and will have to repeat and resubmit SLA work.
4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.* 15 Weeks
5. 1 credit is equivalent to 30 Notional hrs.
6. * Self learning hours shall not be reflected in the Time Table.

Course Category : Discipline Specific Course Core (DSC) : 2, Discipline Specific Elective (DSE) : 0, Value Education Course (VEC) : 1, Intern./Apprenti./Project./Community (INP) : 0, Ability Enhancement Course (AEC) : 1, Skill Enhancement Course (SEC) : 2, Generic Elective (GE) : 0

Semester : Fourth

Sr No	Course Title	Abbreviation	Course Type	Course Code	Total IKS Hrs for Sem.	Learning Scheme					Credits	Assessment Scheme													
						Actual Contact Hrs./Week			Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week		Paper Duration (hrs.)	Theory				Based on LL & TL				Based on Self Learning		Total Marks		
																	Practical								
						CL	TL	LL					FA- TH	SA- TH	Total		FA-PR		SA-PR		SLA				
Max	Max	Max	Min	Max	Min	Max	Min	Max	Min																
General (general) Compulsory - 6																									
1	ENVIROMENTAL EDUCATION AND SUSTAINABILITY	EES	VEC	314302		3	-	-	1	4	2	1.5	30	70*#	100	40	-	-	-	-	25	10	125		
2	JAVA PROGRAMMING	JPR	AEC	314303		2	-	4	2	8	4	3	30	70	100	40	25	10	25#	10	25	10	175		
3	MICROCONTROLLER & APPLICATIONS	MAA	DSE	314323		3	-	4	1	8	4	3	30	70	100	40	25	10	25#	10	25	10	175		
4	DIGITAL COMMUNICATION	DCS	DSC	314334		4	-	2	2	8	4	3	30	70	100	40	25	10	25#	10	25	10	175		
5	SOFTWARE ENGINEERING	STE	DSC	314335		3	-	2	1	6	3	3	30	70	100	40	25	10	25@	10	25	10	175		
6	PROBLEM SOLVING USING PYTHON PROGRAMMING	PPP	SEC	314012		-	-	2	2	4	2	-	-	-	-	-	25	10	25#	10	25	10	75		
open elective (open elective) Compulsory - 1																									
7	©OPEN ELECTIVE	OPE	SEC	314328		1	-	-	1	2	1	-	-	-	-	-	-	-	-	-	50	20	50		
Total					0	16	0	14	10	40	20		150	350	500		125		125		200		950		

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3. If candidate is not securing minimum passing marks in SLA of any course then the candidate shall be declared as fail and will have to repeat and resubmit SLA work.
4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.* 15 Weeks
5. 1 credit is equivalent to 30 Notional hrs.
6. * Self learning hours shall not be reflected in the Time Table.

Course Category : Discipline Specific Course Core (DSC) : 2, Discipline Specific Elective (DSE) : 1, Value Education Course (VEC) : 1, Intern./Apprenti./Project./Community (INP) : 0, AbilityEnhancement Course (AEC) : 1, Skill Enhancement Course (SEC) : 2, GenericElective (GE) : 0

Semester : Fifth

Sr No	Course Title	Abbreviation	Course Type	Course Code	Total IKS Hrs for Sem.	Learning Scheme					Credits	Assessment Scheme												
						Actual Contact Hrs./Week			Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week		Paper Duration (hrs.)					Based on LL & TL				Based on Self Learning			
																	Practical							
						CL	TL	LL					FA- TH	SA- TH	Total		FA-PR		SA-PR		SLA			
Max	Max	Max	Min	Max	Min	Max	Min	Max	Min	Total Marks														
General (GENERAL) Compulsory - 5																								
1	ENTERPRENEURSHIP DEVELOPMENT AND STARTUPS	EDS	AEC	315302		1	-	2	1	4	2	-	-	-	-	-	50	20	25@	10	25	10	100	
2	MOBILE & WIRELESS COMMUNICATION	MWC	DSC	315344		5	-	2	1	8	4	3	30	70	100	40	25	10	25#	10	25	10	175	
3	OPERATING SYSTEM USING LINUX	OSL	DSC	315345		5		2	1	8	4	3	30	70	100	40	25	10	25#	10	25	10	175	
4	SEMINAR AND PROJECT INITIATION COURSE	SPI	AEC	315002		-	-	2	-	2	1	-	-	-	-	-	25	10	25@	10	-	-	50	
5	INTERNSHIP(12 WEEKS)	ITR	SEC	315001		-	-	-	-	0	6	-	-	-	-	-	-	-	75#	30	75	30	150	
ELECTIVE (ELECTIVE) Any - 1																								
6	IOT APPLICATIONS	IAU	DSE	315338		4	-	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	-	150	
	3D PRINTING	TDP	DSE	315342		4	-	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	-	150	
Total					0	15	0	10	3	28	20		90	210	300		150		200		150		800	

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Note :

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3. If candidate is not securing minimum passing marks in SLA of any course then the candidate shall be declared as fail and will have to repeat and resubmit SLA work.
4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.* 15 Weeks
5. 1 credit is equivalent to 30 Notional hrs.
6. * Self learning hours shall not be reflected in the Time Table.

Course Category : Discipline Specific Course Core (DSC) : 2, Discipline Specific Elective (DSE) : 2, Value Education Course (VEC) : 0, Intern./Apprenti./Project./Community (INP) : 0, Ability Enhancement Course (AEC) : 2, Skill Enhancement Course (SEC) : 1, Generic Elective (GE) : 0

Semester : Sixth

Sr No	Course Title	Abbreviation	Course Type	Course Code	Total IKS Hrs for Sem.	Learning Scheme						Credits	Assessment Scheme												
						Actual Contact Hrs./Week			Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week			Paper Duration (hrs.)	Theory				Based on LL & TL				Based on Self Learning		Total Marks	
																		Practical							
						CL	TL	LL						FA- TH	SA- TH	Total		FA-PR		SA-PR		SLA			
Max	Max	Max	Min	Max	Min	Max	Min	Max	Min																
General (GENERAL) Compulsory - 5																									
1	MANAGEMENT	MAN	VEC	316302		3	-	-	1	4	2	1.5	30	70*#	100	40	-	-	-	-	25	10	125		
2	EMERGING TRENDS IN ELECTRONICS	ETE	DSC	316326		4	-	-	2	6	3	1.5	30	70*#	100	40	-	-	-	-	25	10	125		
3	COMPUTER NETWORK & DATA COMMUNICATION	CND	DSC	316330		4		4	2	10	5	3	30	70	100	40	25	10	-	-	25	10	150		
4	OPTICAL NETWORKNG AND SATELLITE COMMUNICATION	ONS	DSC	316331		4		4	2	10	5	3	30	70	100	40	25	10	25#	10	25	10	175		
5	CAPSTONE PROJECT	CPE	INP	316001		-	-	4	-	4	2	-	-	-	-	-	100	40	50#	20	-	-	150		
ELECTIVE (ELECTIVE) Any - 1																									
6	DRONE TECHNOLOGY	DRT	DSE	316328		3	-	2	1	6	3	3	30	70	100	40	25	10	25#	10	25	10	175		
	CONTROL SYSTEM & PLC	CSP	DSE	316332		3	-	2	1	6	3	3	30	70	100	40	25	10	25#	10	25	10	175		
Total					0	18	0	14	8	40	20		150	350	500		175		100		125		900		

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Note :

1. FA-TH represents average of two class tests of 30 marks each conducted during the semester.

2. If candidate is not securing minimum passing marks in FA-PR of any course then the candidate shall be declared as "Detained" in that semester.

3. If candidate is not securing minimum passing marks in SLA of any course then the candidate shall be declared as fail and will have to repeat and resubmit SLA work.

4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.* 15 Weeks

5. 1 credit is equivalent to 30 Notional hrs.

6. * Self learning hours shall not be reflected in the Time Table.

Course Category : Discipline Specific Course Core (DSC) : 3, Discipline Specific Elective (DSE) : 2, Value Education Course (VEC) : 1, Intern./Apprenti./Project./Community (INP) : 1, Ability Enhancement Course (AEC) : 0, Skill Enhancement Course (SEC) : 0, Generic Elective (GE) : 0