

Maharashtra State Board of Technical Education, Mumbai

K Scheme Curriculum Search (Draft Copy)

Program / Course ME-Diploma In Mechanical Engineering	~

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

									Sem	ester : See	cond												
					Learning Sch Actual Conta			Schem	e			Assessmen	t Schen	ne									
							al Co /Week										Based	l on LL	& TL		Based Self	on	
					Total				Self Learning				Theor	у			Pract	ical			Learn	ing	
Sr			Course	Course	IKS Hrs for				(Activity/ Assignment /Micro	Notional Learning Hrs		Paper Duration	FA- TH	SA- TH	Total		FA-P	R	SA-PI	R	SLA		Total
No	Course Title	Abbrevation	Туре	Code	Sem.	CL	TL	LL	Project)	/Week	Credits	(hrs.)	Max	Max	Max	Min	Max	Min	Max	Min	Max	Min	Marks
Gen	eral (ALL COURSES (COMPULSORY	í) Compu	llsory - 7																			
1	APPLIED MATHEMATICS	AMS	AEC	312301	2	3	1	-	-	4	2	3	30	70	100	40	-	-	-	-	-	-	100
2	APPLIED SCIENCE	ASC	DSC	312308	4	4	-	4	-	8	4	1.5	30	70*#	100	40	50	20	50@	20	-	-	200
3	ENGINEERING DRAWING	EDG	SEC	312311	4	2	-	4	2	8	4	4	30	70	100	40	25	10	25@	10	25	10	175
4	ENGINEERING MECHANICS	EGM	DSC	312312	2	3	1	2	2	8	4	3	30	70	100	40	25	10	-	-	25	10	150
5	MANUFACTURING TECHNOLOGY	MPR	DSC	312313	1	3	-	4	1	8	4	3	30	70	100	40	25	10	25@	10	25	10	175
6	PROFESSIONAL COMMUNICATION	РСО	SEC	312002	0	-	-	2	-	2	1	-	-	-	-	-	25	10	25@	10	-	-	50
7	SOCIAL AND LIFE SKILLS	SFS	VEC	312003		-	-	1	1	2	1	-	-	-	-	-	25	10	-	-	25	10	50
		Total			13	15	2	17	6	40	20		150	350	500		175		125		100		900

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

									Sei	nester : T	hird												
						Lear	ning S	Schem	e			Assessmen	t Schen	ne									
							ial Coi /Week										Based	on LL	& TL		Based Self	l on	
					Total				Self Learning				Theor	у			Pract	ical			Learı	iing	
Sr			Course	Course	IKS Hrs for				(Activity/ Assignment /Micro	Notional Learning Hrs		Paper Duration	FA- TH	SA- TH	Total		FA-Pl	R	SA-PI	ł	SLA		Tota
No	Course Title	Abbrevation	Туре	Code	Sem.	CL	TL	LL	Project)	/Week	Credits	(hrs.)	Max	Max	Max	Min	Max	Min	Max	Min	Max	Min	Mar
Gen	eral (All Courses are	Compulsory) C	Compulsor	y - 8																			
1	ESSENCE OF INDIAN CONSTITUTION	EIC	VEC	313304		1			1	2	1	-	-	-	-	-	-	-	-	-	50	20	50
2	BASIC ELECTRICAL AND ELECTRONICS	BEE	AEC	313307	0	2	-	4	-	6	3	-	-	-	-	-	50	20	50@	20	-	-	100
3	FLUID MECHANICS AND MACHINERY	FMM	DSC	313308		3	-	2	1	6	3	3	30	70	100	40	25	10	25#	10	25	10	17
4	PRODUCTION DRAWING	PDR	SEC	313310		2	-	4	2	8	4	4	30	70	100	40	25	10	25@	10	25	10	17
5	STRENGTH OF MATERIALS	SOM	DSC	313311		4		2		6	3	3	30	70	100	40	25	10	-	-	-	-	12
6	THERMAL ENGINEERING	TEG	DSC	313312		3	-	2	1	6	3	3	30	70	100	40	25	10	25@	10	25	10	17
7	COMPUTER AIDED DRAFTING	CAD	SEC	313002		-	-	4	-	4	2	-	-	-	-	-	25	10	25#	10	-	-	50
8	FUNDAMENTALS OF PYTHON PROGRAMMING	FPP	AEC	313005		-	-	2	-	2	1	-	-	-	-	-	25	10	25@	10	-	-	50
		Total			0	15	0	20	5	40	20		120	280	400		200		175		125		90

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 :

									Seme	ster : Fou	rth												
						Lear	ning S	Schem	e			Assessmer	nt Scher	ne									
							al Coi /Week										Based	on LL	. & TL		Based Self	on	
					Total				Self Learning				Theo	ry			Practi	cal			Learn	ing	
Sr			Course	Course	IKS Hrs for				(Activity/ Assignment /Micro	Notional Learning Hrs		Paper Duration	FA- TH	SA- TH	Total		FA-PH	ł	SA-PI	ł	SLA		Tota
No	Course Title	Abbrevation	Туре	Code	Sem.	CL	TL	LL	Project)	/Week	Credits	(hrs.)	Max	Max	Max	Min	Max	Min	Max	Min	Max	Min	Mar
Gen	eral (All Courses are Con	pulsory) Com	pulsory - 8	1																			
1	ENVIROMENTAL EDUCATION AND SUSTAINABILITY	EES	VEC	314302		3	-	-	1	4	2	1.5	30	70*#	100	40	-	-	-	-	25	10	125
2	ADVANCED MANUFACTURING TECHNOLOGY	AMF	DSC	314305		4	-	2	-	6	3	3	30	70	100	40	25	10	-	-	-	-	125
3	ENGINEERING METALLURGY	EMT	DSC	314306		2		2	2	6	3	1	15	35*#	50	20	25	10	-	-	25	10	100
4	METROLOGY AND MEASUREMENT	MAM	DSC	314307		3	-	2	1	6	3	3	30	70	100	40	25	10	25#	10	25	10	175
5	THEORY OF MACHINES	ТОМ	DSC	314308		4	-	2	-	6	3	3	30	70	100	40	25	10	-	-	-	-	125
6	ENTERPRENEURSHIP DEVELOPMENT AND STARTUPS	EDS	AEC	315302		1	-	2	1	4	2	-	-	-	-	-	50	20	25@	10	25	10	100
7	BASICS OF MECHATRONICS	BOM	AEC	Course Code Will be Created After Locking Scheme		-	-	2	-	2	1	-	-	-	-	-	25	10	25@	10	_	-	50
8	CNC PROGRAMMING	CNC	SEC	314003		-	-	4	-	4	2	-	-	-	-	-	25	10	25#	10	-	-	50
	,	Total	1		0	17	0	16	5	38	19		135	315	450		200		100		100		850

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

									56	mester : I	1111												
						Lear	ning S	Schem	e			Assessmen	t Schen	ne									
							al Coi /Week										Based	on LL	& TL		Based Self	l on	
					Total				Self Learning				Theor	у			Practi	cal			Learn	ing	
Sr			Course	Course	IKS Hrs for				(Activity/ Assignment /Micro	Notional Learning Hrs		Paper Duration	FA- TH	SA- TH	Total		FA-PI	ł	SA-PH	ł	SLA		Total
No	Course Title	Abbrevation	Туре	Code	Sem.	CL	TL	LL	Project)	/Week	Credits	(hrs.)	Max	Max	Max	Min	Max	Min	Max	Min	Max	Min	Marks
Gen	eral (All Courses are	Compulsory)	Compulso	ry - 5																			
1	MANAGEMENT	MAN	VEC	316302		3	-	-	1	4	2	1.5	30	70*#	100	40	-	-	-	-	25	10	125
2	INDUSTRIAL HYDRAULICS AND PNEUMATICS	IHP	DSC	315327		4	-	2	2	8	4	3	30	70	100	40	25	10	25#	10	25	10	175
3	POWER ENGINEERING	PER	DSC	315328		4	-	4	-	8	4	3	30	70	100	40	25	10	25#	10	-	-	150
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
Elec	tive - I (Select any O	ne Course) Any	y - 1																				
	POWER PLANT ENGINEERING	PPE	DSE	315311		4	-	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	_	150
	TOOL ENGINEERING	TEN	DSE	315313		4	-	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	-	150
6	BASIC AUTOMOBILE ENGINEERING	BAE	DSE	315329		4	-	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	-	150
	HEATING VENTILATION AIR CONDITIONING AND REFRIGERATION	HVA	DSE	315330		4	_	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	_	150

						Lea	ning	Schem	ie			Assessmer	nt Scher	ne								
					Ac	Actu	ıal Co /Week	ntact	Self		-		Theo	ry			Based		. & TL		Based Self Learn	
					Total IKS Hrs				Learning (Activity/ Assignment	Notional Learning		Paper	FA- TH	SA- TH	Total		FA-P	R	SA-P	R	SLA	
Sr No	Course Title	Abbrevation	Course Type	Course Code	for Sem.	CL	TL	LL	/Micro Project)	Hrs /Week	Credits	Duration (hrs.)	Max	Max	Max	Min	Max	Min	Max	Min	Max	М
Gen	eral (All Courses are C	Compulsory) Co	ompulsory	- 6																		
1	EMERGING TRENDS IN MECHANICAL ENGINEERING	ETM	DSC	315308		3	-	-	1	4	2	1.5	30	70*#	100	40	-	-	-	-	25	1
2	DESIGN OF MACHINE ELEMENTS	DME	DSC	316321		4	-	2	2	8	4	4	30	70	100	40	25	10	-	-	25	1
3	INDUSTRIAL ENGINEERING AND QUALITY CONTROL	IEQ	DSC	316322		4	-	2	-	6	3	3	30	70	100	40	25	10	25@	10	-	
4	3D MODELLING AND ADDITIVE MANUFACTURING	3DM	SEC	316004		-	-	4	2	6	3	-	-	-	-	-	25	10	50#	20	25	
5	MECHANICAL MAINTENANCE AND SAFETY	MMS	SEC	316005		-	-	4	2	6	3	-	-	-	-	-	25	10	25@	10	25	
6	CAPSTONE PROJECT	CPE	INP	316001		-	-	4	-	4	2	-	-	-	-	-	100	40	50#	20	-	
Elec	tive - II (Select any On	e Course) Any	- 1																			
	COLD CHAIN MANAGEMENT	ССМ	DSE	316310		4	-	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	
-	COMPUTER INTEGRATED MANUFACTURING	CIM	DSE	316311		4	-	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	
7	ADVANCED AUTOMOBILE	AAE	DSE	316323		4	_	2	_	6	3	3	30	70	100	40	25	10	25#	10	_	

MSBTE K Scheme Curriculum Search

•								1010		onic our		aron										
ENGINEERING																						
ENERGY MANAGEMENT	EMG	DSE	316324		4	-	2	-	6	3	3	30	70	100	40	25	10	25#	10	-	-	150
	Total			0	15	0	18	7	40	20		120	280	400		225		175		100		900
Legends : @ Internal Assess Note :	sment, # Externa	ll Assessme	ent, *# On I	Line Exa	minatio	on , @	\$ Inter	nal Online Exa	mination													
1. FA-TH represents average	e of two class tes	sts of 30 ma	arks each co	onducted	during	, the se	emester	r.														
2. If candidate is not securin	g minimum pass	sing marks	in FA-PR o	f any co	urse th	en the	candid	ate shall be dec	lared as "Det	ained" in th	nat semester.											
3. If candidate is not securin	g minimum pass	sing marks	in SLA of a	ny cours	se then	the ca	ndidate	e shall be decla	red as fail and	l will have	to repeat and	resubm	it SLA v	work.								
4. Notional Learning hours f	or the semester	are (CL+Ll	L+TL+SL)h	nrs.* 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) : 4, Value Education Course (VEC) : 0, Intern./Apprenti./Project./Community (INP) : 1, AbilityEnhancement Course (AEC) : 0, Skill Enhancement Course (SEC) : 2, GenericElective (GE) : 0