III SEMESTER

				Tea	ching Hours	/Week	1000000	Exam	ination		Credits
SI. No	Subject Code	Title	Teaching Department	Lecture	Tutorial	Practical	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	
1	17MAT31	Engineering Mathematics – III	Maths	04	22		03	60	40	100	4
2	17ME32	Materials Science	ME	04			03	60	40	100	4
3	17ME33	Basic Thermodynamics	ME	03	02		03	60	40	100	4
4	17ME34	Mechanics of Materials	ME	03	02		03	60	40	100	4
5	17ME35A/	Metal Casting and Welding	ME	04			00	60	40		
	17ME35B	Machine Tools and Operations	ME	. 04	1 (80, 10	100	03			100	4
6	17ME36 A/	Computer Aided Machine Drawing	ME	01	2	4		60	40		
	17ME36B	Mechanical Measurements and Metrology	ME	03			03			100	3
	17MEL37A/	Materials Testing Lab/	ME	7				60	40		
7	17MEL37B	Mechanical Measurements and Metrology Lab	ME	1		2	03	- 1 - 2		100	2
3	17MEL38A/	Foundry and Forging Lab	ME				5,900	60	40		
	17MEL38B	Machine Shop/	ME	1		2	03	land of the		100	2
	17KL/CPH39 / 4 9	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	1			01	30	20	50	1
		TOTAL		22/24	04	08/04		510	340	850	28

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Alva's Institute of Engg. & Technology Mijar, MOODBLURI - 574 225

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IV SEMESTER

i. \				V ₀ Nov.	Teaching	Teach	ing Hours	/Week		Exami	nation		Credi
No	Subj	ect Code		Title	Department	Lectu re	Tutorial	Practical	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	
1		MAT41	Engi	neering Mathematics – III	Maths	04	1-77		03	60	40	100	04
2	17N	ΛE42	Kine	ematics of Machinery	ME	03	02		03	60	40	100	04
3		ME43	Ap	plied Thermodynamics	ME	03	02	- A	03	60	40	100	04
4	17	7ME44	Flu	uid mechanics	ME	03	02		03	60	40	100	04
5	s \	7ME45A/	-	letal Casting and Welding	ME	04			03	60	40	100	04
		17ME45B		Machine Tools and Operations	ME	4	+		1			100	04
	6	17ME46 A/		Computer Aided Machine Drawing	ME	01		4		60	40		
		17ME46B	1	Mechanical Measurements and Metrology	ME	03			03			100	03
	_	17MEL47A	/	Materials Testing Lab/	ME					60	40		
	7	17MEL47B	3	Mechanical Measurements and Metrology Lab	ME	1		2	03			100	02
	8	17MEL48/	Α/	Foundry and Forging Lab	ME	1	e pull		-	60	40		
		17MEL48	В	Machine Shop/	ME	1		2	03	1 1 2 1		100	02
2	9	17KL/CPH 49	H39/	Kannada/Constitution of Indi Professional Ethics and Huma Rights		1			01	30	20	50	1
				TOTAL		21/	23 06	08/04	1 10 10 10 10 10 10 10 10 10 10 10 10 10	510	340	850	28/

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Dept. Of Mechanical Engineering Alva's Institute of Engg. & Technology Mijar, MOCDBIDRI - 574 225

V SEMESTER

1	Subject	Title	Tea	ching Hours	/Week		P 1			
1	Code	- 1110	Lecture	Tutorial	Practical		Examina			Credits
+	17ME51	M			- ractical	Duration (Hours)	SEE Marks	CIE Marks	Total	
		Management and Engineering Economics	3	2	0	02			Marks	
	17ME52	Dynamics of Machinery		140 - 0		03	60	40	100	4
1		,	3	2	0	03	(0			
1	17ME53	Turbo Machines				03	60	40	100	4
1	171 (5.4		3	2	0	03	60	40	100	
	17ME54	Design of Machine Elements - I	3	-	, vil			40	100	4
5	17ME55X		3	2	0	03	60	40	100	4
	1 TIMESSA	Professional Elective-I	3	0	0		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			7
6	17ME56X	Open Elective-I		1 "	0	03	60	40	100	3
	LILLION	Open Elective-I	3	0	-					
7	17MEL57	Fluid Machania Control		0	0	03	60	40	100	3
	1	Fluid Mechanics & Machinery Lab	1	0	2	0.0	3 2 2 3 3 3			-
8	17MEL58	Energy Lab			2	03	60	40	100	2
		Energy Lab	1	0	2	03	(0			
		TOTAL	100		_	"	60	40	100	2
		IOIAL	20	08	04		480	220		
		onal Elective-I					400	320	60	40

Totessional	Elective-I	Open Electi	ve-I
17ME551	Refrigeration and Air-conditioning		
17ME552	Theory of Elasticity		Optimization Techniques
17ME553	Human Resource Management		Energy and Environment
17ME554	Non Traditional Machining	17ME563	Automation and Robotics
	11011 Haditional Machining	17ME564	Project Management

1. Core subject: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study. 2. Professional Elective: Elective relevant to chosen specialization/ branch

3. Open Elective: Electives from other technical and/or emerging subject areas.

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Dept. Of Mechanical Engineering Alva's institute of Engg. & Technology Mijar, MOODBIDRI - 574 225

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VI SEMESTER

-	Subject		Teac	hing Hours	/Week		Exami			
0	Code	Title	Lecture	Tutorial	Practical	Duration	SEE Marks	CIE	Total	Credits
-	17ME61	Finite Element Analysis	3			(Hours)	Mark	Marks	Marks	
		Computer integrated Manufacturing	3	2	0	03	60	40	100	4
.	17ME62	integrated Manufacturing	4	0	0			1 40		
,	17ME63	Heat Transfer	,		0	03	60	40	100	4
	17141203		3	2	0	03	60	10		j)
4	17ME64	Design of Machine Elements -II					00	40	100	4
			3	2	0	03	60	40	100	
5	17ME65X	Professional Elective-II						40	100	4
_			3	0	0	03	60	40	100	,
6	17ME66X	Open Elective-II	1						100	3
_	1		3	0	0	03	60	40	100	3
7	17MEL67	Heat Transfer Lab	1	0						3
				0	2	03	60	40	100	2
8	17MEL68	Modeling and Analysis Lab(FEA)	1	0	2	03				
		TOTAL			-	03	60	40	100	2
		IOIAL	21	6	04		400			
	Professional El					- 1	480	320	60	40

Elective-II	Open Fleeti	ive-II
Computational Fluid Dynamics		
Mechanics of Composite Materials		Energy Auditing Industrial Safety
Metal Forming		
Tool Design	-	Maintenance Engineering
Automobile Engineering	17772004	Total Quality Management
	Computational Fluid Dynamics Mechanics of Composite Materials Metal Forming Tool Design	Computational Fluid Dynamics 17ME661 Mechanics of Composite Materials 17ME662 Metal Forming 17ME663 Tool Design 17ME664

- 1. Core subject: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study. 2. Professional Elective: Elective relevant to chosen specialization/ branch
- 3. Open Elective: Electives from other technical and/or emerging subject areas.

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Dept. Of Mechanical Engineering

Alva's Institute of Engg. & Technology

Mijar, MOODBIDRI - 574 225

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI **CHOICE BASED CREDIT SYSTEM (CBCS)** SCHEME OF TEACHING AND EXAMINATION 2015-2016

VII SEMESTER

B.E. Mechanical Engineering

	Subject			ning Hours	Teaching Hours /Week			Examination				
	Code	Title Energy Engineering	Lecture	Tutorial	Practical	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	Credits		
2			3	2	0	03	60	40	400			
	17101272	Fluid Power Systems	4				00	40	100	4		
3	17ME73	Control Engineering	- 14	0	0	03	60	40	100	4		
4	17ME74X		3	2	0	03	60	40	100			
		Professional Elective - III	3	0	0	00			100	4		
5	17ME75X	Professional Elective-IV			U	03	60	40	100	3		
6	17MEL76	Design Lab	3	0	0	03	60	40	100	3		
_			1	0	2	03	60	- 10				
7	17MEL77	CIM Lab	1	-			60	40	100	2		
8	17MEP78	Project Phase – I		0	2	03	60	40	100	2		
		TOTAL	<u> </u>	-	-	-	60	40	100	2		
		TOTAL	18	4	04		480	320	-30	2		

Professional	Flective III			400
	Liective-III	Professiona	l Elective-IV	
17ME741	Design of Thermal Equipment's	17ME751	Automotive Electronics	
17ME742	Tribology	17ME752		1 -1 1
17ME743	Financial Management	17ME753	Fracture Mechanics	
17ME744	Design for Manufacturing		Human Resource Manageme	nt
17ME745		17ME754	Mechatronics	
	Smart Materials & MEMS	17ME755	Advanced Vibrations	

1. Core subject: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme that said discipline of

2. Professional Elective: Elective relevant to chosen specialization/ branch

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Dept. Of Mechanical Engineering Alva's Institute of Engg. & Technology Mijar, MOODBIDRI - 574 225

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI **CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2015-2016**

VIII SEMESTER

B.E. Mechanical Engineering

	Subject		Teach	ning Hours	/Week		Examin	ation		Credits
0	Code	Title	Lecture	Tutorial	Practical	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	
1	17ME81	Operations Research	3	2	0	03				
2	17ME82	Additive Manufacturing				03	60	40	100	4
3	17ME83X	The telephone	4	0	0	03	60	40	100	4
		Professional Elective - V	3	0	0	03	60	40	100	3
4	17ME84	Internship / Professional Practice	Inc	dustry Orier	ted	03	- 60			
5	17ME85	Project Phase – II			neu		60	40	60	40
6	17MES86		-	6	-	03	60	40	200	6
-	2	Seminal	f P	4	-	-	60	40	100	1
		TOTAL	10	12	-		480	320	700	20

Professional	Elective-V	
15ME831	Cryogenics	
15ME832	Experimental Stress Analysis	
15ME833	Theory of Plasticity	
15ME834	Green Manufacturing	
15ME835	Product life cycle management	

1. Core subject: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of

2. Professional Elective: Elective relevant to chosen specialization/ branch

3. Internship / Professional Practice: To be carried out between 6th & 7th semester vacation or 7th & 8th semester vacation.

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Internship/ Professional Practice

Course	Code	Credits	L-T-P	Asses	sment	
Internship/ Professional			2-1-1	SEE	CIA	Exam Duration
Practice	17ME84	2	Industry Oriented	50	50	3 Hrs

Project Work, Phase II

Code	Credits	I_T_P	Asses	sment	
		D-1-1	SEE	CIA	Exam Duration
17MEP85	6	0-6-0			3 Hrs
		Credits	Credits L-1-P	17MEDES SEE	17MEDOS CICHOS E-1-P SEE CIA

Seminar

Course	Code	Credits	L-T-P	Assessment		
				SEE	CIA	Exam Duration
Seminar	17MES86	1	0-4-0	100	-	

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