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VAAGDEVI COLLEGE OF ENGINEERING
(Autonomous)

Bollikunta, Khila Warangal (Mandal), Warangal Urban-506 005 (T.S)

DEPARTMENT OF MECHANICAL ENGINEERING
INTERNAL BOARD OF STUDIES MEETING

Minutes of Internal Board of studies meeting in Mechanical Engineering held on 03/10/2020
at 10:30Am.

Members Present:

S.No	Name and Address	Designation	Signature
1	Dr. P.Srinivasulu Head, ME Dept. VCE, Warangal	Chairman	
2	Dr. Parvesh Kumar Asst.Prof, ME Dept. VCE, Warangal	Member	
3	Dr. Sanjeev Kumar sajjan Asst.Prof., ME Dept. VCE, Warangal	Member	
4	. M.Anil kumar Asst.Prof., ME Dept. VCE, Warangal	Member	

The following decisions are taken:

1. Approved the course structure of B.Tech. (R20-Regulations) for I year I & II Semesters.
2. Approved the syllabus of B.Tech. (R20-Regulations) for Engineering graphics for Mechanical Branch, Engineering drawing with Auto CAD for other branches.
3. Approved the syllabus of B.Tech. (R20-Regulations) for Engineering Work shop for Mechanical & civil branches, Engineering Work shop & IT Work shop for other branches.
4. Engineering Drawing is a very significant subject for designing not only for Civil and Mechanical Engineering, but also for other engineering disciplines. So, from this academic year we are planning to implement Engineering drawing through AutoCAD for branches other than Mechanical Engineering.

5. Engineering Workshop is included in all the disciplines of Engineering. We are planning to reduce few trades in Engineering Workshop for branches other than Mechanical and Civil Engineering which are not important for those branches like fitting, thin smithy, foundry & plumbing.



CHAIRMAN
Board of studies

BOS/I

**VAAGDEVI COLLEGE OF ENGINEERING
(AUTONOMOUS)**

**MECHANICAL ENGINEERING
COURSE STRUCTURE**

(Applicable for the batches admitted from A.Y. 2020-2021 onwards)

I-SEMESTER

Sl.NO	Course Code	Title of the Course	L	T	P	Credits
1		Linear Algebra and Calculus	3	1	0	4
2		Chemistry for Mechanical Engineering	3	1	0	4
3		Engineering Graphics	1	0	4	3
4		Programming for Problem Solving	4	0	0	4
5		i -English (Individualized English) skills lab	0	0	3	1.5
6		Programming for Problem Solving Lab	0	0	3	1.5
7		Engineering Workshop	0	0	2	1
8		Induction Programme	-	-	-	-
		Total	11	2	12	19

II-SEMESTER

Sl.NO	Course Code	Title of the Course	L	T	P	Credits
1		Differential equations and vector calculus	3	1	0	4
2		Physics for Mechanical Engineering	3	1	0	4
3		Engineering Mechanics	3	1	0	4
4		Introduction to Python programming	1	0	2	2
5		Basic Electrical and Electronics Engineering	3	0	0	3
6		English skills Lab for digital natives	0	0	3	1.5
7		Basic Electrical and Electronics Engineering Lab	0	0	3	1.5
8		Engineering Physics Lab	0	0	2	1
9		NSS/NCC	0	0	2	0
		Total	13	3	12	21

**VAAGDEVI COLLEGE OF ENGINEERING
(AUTONOMOUS)
MECHANICAL ENGINEERING
COURSE STRUCTURE
((Applicable for the batches admitted from A.Y. 2020-2021 onwards))**

III-SEMESTER

Sl.NO	Course Code	Title of the Course	L	T	P	Credits
1		Metallurgy and Material Science	3	0	0	3
2		Mechanics of Solids	3	1	0	4
3		Thermodynamics	3	1	0	4
4		Machine Drawing	1	0	2	2
5		Introduction to Artificial Intelligence	1	0	0	1
6		Mechanics of Solids Lab	0	0	3	1.5
7		Metallurgy Lab	0	0	3	1.5
8		Fuels & Lubricants lab	0	0	2	1
		Total	11	2	10	18

**VAAGDEVI COLLEGE OF ENGINEERING
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**MECHANICAL ENGINEERING
COURSE STRUCTURE**

((Applicable for the batches admitted from A.Y. 2020-2021 onwards))

IV-SEMESTER

Sl.NO	Course Code	Title of the Course	L	T	P	Credits
1		Probability & statistics	3	0	0	3
2		Fluid mechanics & Hydraulic machinery	3	0	0	3
3		Thermal Engineering-I	3	1	0	4
4		Kinematics of Machinery	3	1	0	4
5		Production Technology	3	0	0	3
6		Fluid Mechanics & Hydraulic Machinery Lab	0	0	3	1.5
7		Production Technology Lab	0	0	3	1.5
8		MAT Lab	0	0	2	1
9		Gender sensitization	2	0	0	0
		Total	17	2	8	21

VAAGDEVI COLLEGE OF ENGINEERING
(Autonomous)

Bollikunta, Khila Warangal (Mandal), Warangal Urban-506 005 (T.S)

DEPARTMENT OF MECHANICAL ENGINEERING
BOARD OF STUDIES MEETING

Minutes of meeting of Board of studies in Mechanical Engineering held on 16/11/2020
at 11:30am.

Members Present:

S.No	Name and Address	Designation	Signature
1	Dr. P.Srinivasulu Head, ME Dept. VCE, Warangal	Chairman	<i>P. Srinivasulu</i> 16/11/2020
2	Dr.B.Anjaneya Prasad Professor, MED,JNTUH CEH	Member (Univ. Nominee)	<i>CoSE</i>
3	Mr.H.Yedukondala Rao DGM, Sriram Fuel Injection Works, Hyd.	Member (Representative from Industry)	<i>Hykondala</i> 16/11/2020
4	Dr.Y.Ravi Kumar Asso.Professor, MED, NIT, Warangal	Member (Subject Expert)	<i>Y. Ravi Kumar</i> 16/11/2020
5	Dr. Parvesh Kumar Asst.Prof, MED, VCE, Warangal	Member	<i>Parvesh Kumar</i> 16/11/2020
6	Dr.Sanjeev kumar sajjan Asst.Prof, MED, VCE, Warangal	Member	<i>S. Sanjeev Kumar</i> 16/11/2020
7	M.Anil kumar Asst.Prof, MED, VCE, Warangal	Member	<i>Anil Kumar</i> 16/11/2020
8	G. Rakesh Kumar Design Engineer Tech Mahendra, Hyd	Member (Representative from Alumni)	

The following decisions are taken:

1. Approved the Course structure of B.Tech. (R20-Regulations) for I year I & II Semesters.
2. Approved the syllabus of B.Tech. (R20-Regulations) for I year I & II Semesters.
3. Approved the Course structure of M.Tech. (R20-Regulations) for I, II, III & IV Semesters.

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4. Approved the syllabus of M.Tech. (R20-Regulations) for I, II, III & IV Semesters.
5. Approved the open source software AUTO CAD for Engineering Drawing for CSE ,CSM, CSD, ECE, EEE & CIVIL Engineering branches.



CHAIRMAN

Board of studies

CHAIRMAN

Board of Studies, Mech. Engg. Dept.
MAAGDEVI COLLEGE OF ENGINEERING
Chilkunta, Warangal (T.S.) 506 001

**VAAGDEVI COLLEGE OF ENGINEERING
(AUTONOMOUS)**

**MECHANICAL ENGINEERING
COURSE STRUCTURE**

(Applicable for the batches admitted from A.Y. 2020-2021 onwards)

I-SEMESTER

Sl.NO	Course Code	Title of the Course	L	T	P	Credits
1		Linear Algebra and Calculus	3	1	0	4
2		Engineering Chemistry	3	1	0	4
3		Engineering Graphics	1	0	4	3
4		Programming for Problem Solving	4	0	0	4
5		English language and interactive Communication skills Lab	0	0	3	1.5
6		Programming for Problem Solving Lab	0	0	3	1.5
7		Engineering Workshop	0	0	2	1
8		Induction Programme	-	-	-	-
		Total	11	2	12	19

II-SEMESTER

Sl.NO	Course Code	Title of the Course	L	T	P	Credits
1		Differential equations and vector calculus	3	1	0	4
2		Engineering Physics	3	1	0	4
3		Engineering Mechanics	3	1	0	4
4		Python programming	1	0	2	2
5		Basic Electrical and Electronics Engineering	3	0	0	3
7		Basic Electrical and Electronics Engineering Lab	0	0	3	1.5
8		Physics Lab	0	0	3	1.5
9		NSS/NCC	0	0	2	0
		Total	13	3	10	20

- ① Principles ② Bos/E ③ Hykondel ④ > R^o b
- ⑤ Notes ⑥ fm ⑦ Amilkey ⑧

**VAAGDEVI COLLEGE OF ENGINEERING
AUTONOMOUS**

Department of Mechanical Engineering

M.TECH. (Thermal Engineering)

COURSE STRUCTURE

(Applicable for the batches admitted from 2020-21 onwards)

I-SEMESTER

S.No	Course Code	Title of the Course	L	T	P	Credits
1	M20TE01	Advanced Thermodynamics	3	0	0	3
2	M20TE02	Advanced Fluid Mechanics	3	0	0	3
3		PROGRAMME ELECTIVE - I	3	0	0	3
	M20TE03	Advanced Refrigeration & Air Conditioning				
	M20TE04	Turbo Machines				
	M20TE05	Energy Management				
4		PROGRAMME ELECTIVE – II	3	0	0	3
	M20TE06	Gas Turbines				
	M20TE07	Non Conventional Energy Sources				
	M20TE08	Equipment Design for Thermal System				
5	M20TE09	Advanced Thermal Engineering Lab	0	0	4	2
6	M20TE10	Modeling and Analysis Lab - I	0	0	4	2
7	M20MC01	Research Methodology	2	0	0	2
8	M20AC02	Audit Course-I Stress Management	2	0	0	0
Total Credits			16	0	8	18

II-SEMESTER

S.No	Course Code	Title of the Course	L	T	P	Credits
1	M20TE11	Advanced Heat Transfer	3	0	0	3
2	M20TE12	Advanced I.C. Engines	3	0	0	3
3		PROGRAMME ELECTIVE - III	3	0	0	3
	M20TE13	Cryogenic Engineering (Pre – Requisite R&AC)				
	M20TE14	Jet Propulsion & Rocket Engineering (Pre – Requisite Turbo Machines)				
	M20TE15	Alternate Fuels				
4		PROGRAMME ELECTIVE – IV	3	0	0	3
	M20TE16	Advanced Computational Fluid Dynamics				
	M20TE17	Thermal and Nuclear Power Plants				
	M20TE18	Thermal Measurement & Process Controls				
5	M20TE19	Advanced Internal Combustion Engines Lab	0	0	4	2
6	M20TE20	Modeling and Analysis Lab - II	0	0	4	2
7	M20TE21	Mini Project	2	0	0	0
8	M20AC01	Audit Course-II English for Research Paper Writing	0	0	4	2
Total Credits			14	0	12	18

III-SEMESTER

S.No	Course Code	Title of the Course	L	T	P	Credits
1		PROGRAMME ELECTIVE - V	3	0	0	3
	M20TE22	Advanced Materials For Thermal Systems				
	M20TE23	Computer Simulation of SI & CI Engines				
	M20TE24	Advanced Finite Element Analysis				
2		OPEN ELECTIVE	3	0	0	3
	M20MA01	Advanced Optimization Techniques & Applications				
	M20MB23	Business Law & Ethics				
	M20MB30	Project Management				
3	M20TE25	Dissertation Phase-I	0	0	20	10
		Total Credits	6	0	20	16

IV-SEMESTER

S.No	Course Code	Title of the Course	L	T	P	Credits
1	M20TE26	Dissertation Phase- II	0	0	32	16
		Total Credits	0	0	32	16

- ① Principles
- ② CSE
- ③ Hydro
- ④ R&B
- ⑤ Heat
- ⑥ For
- ⑦ Analysis
- ⑧