

VAAGDEVI COLLEGE OF ENGINEERING

AUTONOMOUS


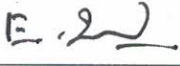
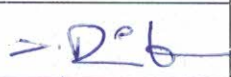
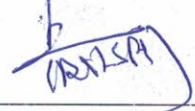

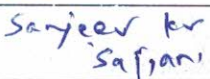


Bollikunta, Khila Warangal (Mandal), Warangal Urban-506 005 (T.S)

DEPARTMENT OF MECHANICAL ENGINEERING

BOARD OF STUDIES MEETING

Minutes of meeting of Board of studies in Mechanical Engineering held on **11-11-2022** at **2.30pm**.

Members Present:

S.No	Name and Address	Designation	Signature
1	Dr. P.Srinivasulu Head, MED, VCE, Warangal	Chairman	
2	Dr. E.Ramjee Professor, MED, JNTUH CEH	Member (Univ. Nominee)	
3	Mr. H.Yedukondala Rao DGM, Sriram Fuel Injection Works, Hyd.	Member (Representative from Industry)	
4	Dr. Y.Ravi Kumar Asso.Professor, MED, NIT, Warangal	Member (Subject Expert)	
5	Dr. L. Shiva Rama Krishna Professor, MED, UCE, Osmania University	Member (Subject Expert)	
6	Dr. Parvesh Kumar Asst.Prof, MED, VCE, Warangal	Member (Teacher of the College)	
7	Dr. Sanjeev Kumar Sajjan Asst.Prof, MED, VCE, Warangal	Member (Teacher of the College)	
8	Mr. M. Anil Kumar Asst.Prof, MED, VCE, Warangal	Member (Teacher of the College)	
9	Mr. B. Ahil Graduate Trainee Engineer Hundai Motor India Engineering, Hyd	Member (Representative from Alumni)	

The following decisions are taken:

1. Approved the Course structure of B.Tech I-Year (I-Semester & II-Semester) under R22-Regulations.
2. Approved the syllabus of B.Tech I-Year (I-Semester & II-Semester) under R22-Regulations.
3. Approved the Course structure of M.Tech (Thermal Engineering) I-Year (I-Semester & II-Semester) & II-Year (I-Semester & II-Semester) under R22-Regulations.
4. Approved the Syllabus of M.Tech (Thermal Engineering) I-Year (I-Semester & II-Semester) & II-Year (I-Semester & II-Semester) under R22-Regulations.


CHAIRMAN
Board of studies

VAAGDEVI COLLEGE OF ENGINEERING
(AUTONOMOUS)
MECHANICAL ENGINEERING

COURSE STRUCTURE

(R22 Regulations applicable for the batches admitted from Academic Year 2022-2023)

I YEAR I SEMESTER

S. No.	Course Code	Title of the Course	L	T	P	Credits
1		Matrices and Calculus	3	1	0	4
2		Applied Physics	3	1	0	4
3		C Programming and Data Structures	3	0	0	3
4		Engineering Workshop	0	1	3	2.5
5		English for Skill Enhancement	2	0	0	2
6		Elements of Mechanical Engineering	0	0	2	1
7		Applied Physics Laboratory	0	0	3	1.5
8		English Language and Communication Skills Laboratory	0	0	2	1
9		C Programming and Data Structures Laboratory	0	0	2	1
10		Environmental Science	3	0	0	0
11		Induction Programme				
Total			14	3	12	20

I YEAR II SEMESTER

S. No.	Course Code	Title of the Course	L	T	P	Credits
1		Ordinary Differential Equations and Vector Calculus	3	1	0	4
2		Engineering Chemistry	3	1	0	4
3		Computer Aided Engineering Graphics	1	0	4	3
4		Engineering Mechanics	3	0	0	3
5		Engineering Materials	2	0	0	2
6		Python Programming Laboratory	0	1	2	2
7		Engineering Chemistry Laboratory	0	0	2	1
8		Fuels & Lubricants Laboratory	0	0	2	1
Total			12	3	10	20

1 *Prashant*2 *E. 22*

3

4 *> R. 6*5 *(Prashant)*6 *Krunal*7 *Sanjeev Ar Sajjan*8 *M. Prashant*9 *B. Akshay*

VAAGDEVI COLLEGE OF ENGINEERING
(AUTONOMOUS)
M. TECH THERMAL ENGINEERING

COURSE STRUCTURE

(R22 Regulations applicable for the batches admitted from Academic Year 2022-2023)

I YEAR I SEMESTER

S. No.	Course Code	Title of the Course	L	T	P	Credits
1	Professional Core - I	Advanced Thermodynamics	3	0	0	3
2	Professional Core - II	Advanced Fluid Mechanics	3	0	0	3
3	Professional Elective - I	1. Fuels & Combustion 2. Electric & Hybrid Vehicles 3. Experimental Methods in Thermal Engineering	3	0	0	3
4	Professional Elective - II	1. Advanced I.C. Engines 2. Gas turbines & Jet Propulsion 3. Nano Fluids	3	0	0	3
5	Core	Research Methodology & IPR	2	0	0	2
6	Lab - I	Advanced Thermal Engineering lab	0	0	4	2
7	Lab - II	Advanced Fluid Mechanics Lab	0	0	4	2
8	Audit - I	Audit Course - I	2	0	0	0
Total			16	0	8	18

I YEAR II SEMESTER

S. No.	Course Code	Title of the Course	L	T	P	Credits
1	Professional Core - III	Advanced Heat and Mass Transfer	3	0	0	3
2	Professional Core - IV	Computational Fluid Dynamics	3	0	0	3
3	Professional Elective - III	1. Finite Element Analysis 2. Optimization Techniques & Applications 3. Utilization of Solar energy	3	0	0	3
4	Professional Elective - IV	1. Cogeneration & Waste Heat Recovery Systems 2. Renewable Energy Sources 3. Energy conservation and Management	3	0	0	3
5		Mini Project with Seminar	0	0	4	2
6	Lab - III	Advanced Heat Transfer Lab	0	0	4	2
7	Lab - IV	Computational Methods Lab	0	0	4	2
8	Audit - II	Audit Course - II	2	0	0	0
Total			14	0	12	18

1 Parthiv

2 R. S.

3

4 > R. B.

5 (Baksa)

6

Khatke

7 Sayeev or Sarjan

8 M. P. S.
M. Anil Kumar

9

B. Arjun

VAAGDEVI COLLEGE OF ENGINEERING
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M. TECH THERMAL ENGINEERING

COURSE STRUCTURE

(R22 Regulations applicable for the batches admitted from Academic Year 2022-2023)

II YEAR I SEMESTER

S. No.	Course Code	Title of the Course	L	T	P	Credits
1	Professional Elective - V	1. Refrigeration & HVAC 2. Gas Dynamics 3. Equipment Design for Thermal Systems	3	0	0	3
2	*Open Elective	Open Elective	3	0	0	3
3	Dissertation	Dissertation Work Review - II	0	0	12	6
Total			6	0	12	12

II YEAR II SEMESTER

S. No.	Course Code	Title of the Course	L	T	P	Credits
1	Dissertation	Dissertation Work Review - III	0	0	12	6
2	Dissertation	Dissertation Viva-Voce	0	0	28	14
Total			0	0	40	20

*For Dissertation Work Review - I, please refer 7.10 in R22 Academic Regulations.

Audit Course I & II:

1. English for Research Paper Writing
2. Disaster Management
3. Sanskrit for Technical Knowledge
4. Value Education
5. Constitution of India
6. Pedagogy Studies
7. Stress Management by yoga
8. Personality Development Through Life Enlightenment Skills

Open Electives

1. Business Analytics
2. Waste to Energy
3. Basics of Refrigeration Systems
4. Introduction to Thermal Storage Systems

1 Pranav 2 F. 2 3

4 R. G. 5 (S. S. S.) 6 Khatke

7 Sanjeer K. Sajani & M. P. S. 9 B. Akshay