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Coimbatore to pollachi Road NH - 209, Ealur Privu, Kinathukadavu Taluk,

Coimbatore - 642109, Tamilnadu, India. Email: office@vsbcetc.com Website: www.vsbcetc.com

#### **Criterion -2 Teaching-Learning and Evaluation**

## 2.6 Students Performance and Learning Outcome

2.6.1 PROGRAMME AND COURSE OUTCOMES FOR ALL PROGRAMMES OFFERED BY THE INSTITUTION ARE STATED AND DISPLAYED ON WEBSITE AND COMMUNICATED TO TEACHERS AND STUDENTS

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2	ProgramSpecific Outcomes	6
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	Objectives(PEOs) of the Institute-Website	
	screenshot.	
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3	(POs), Program Specific Outcomes (PSOs) &	8
	Program Educational Objectives(PEOs) of	
	the Program –	
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	Course outcomes in question paper, Answer	
4	script , Mark Statement and Lesson plan	16





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#### Program Outcomes (POs)

#### Engineering Graduates will be able to

- 1. **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. **Problem analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. **Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. **Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. **Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6. **The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7. **Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8. **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

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- 10. **Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. **Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. **Life Long Learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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#### **Program Specific Outcomes (PSOs):**

**PSO1** –Enable the students to design, analyze and evaluate the mechanical engineering components through innovative projects.

**PSO2** – Enable the students to take up career in prominent industries or to purse higher studies in mechanical and interdisciplinary programs with high regard for ethical values, environmental and social issues

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#### **Program Educational Objectives (PEO)**

**PEO1**: Graduates will be a technically advanced workforce as successful professionals in the wide range of Mechanical Engineering and related fields.

**PEO2:** Graduates will be effective collaborators and innovators, leading in efforts to address social, technical and business issues.

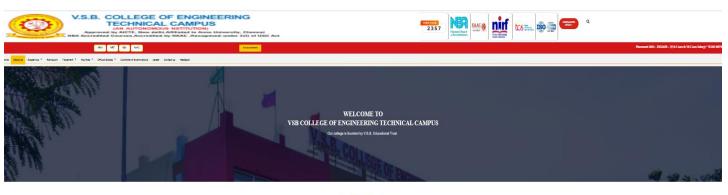
**PEO3:** Graduates will engage in life-long learning and professional development through self- study, continuing education or graduate and professional studies in engineering and business

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#### **VISION & MISSION OF THE COLLEGE**



#### OUR VISION & MISSION







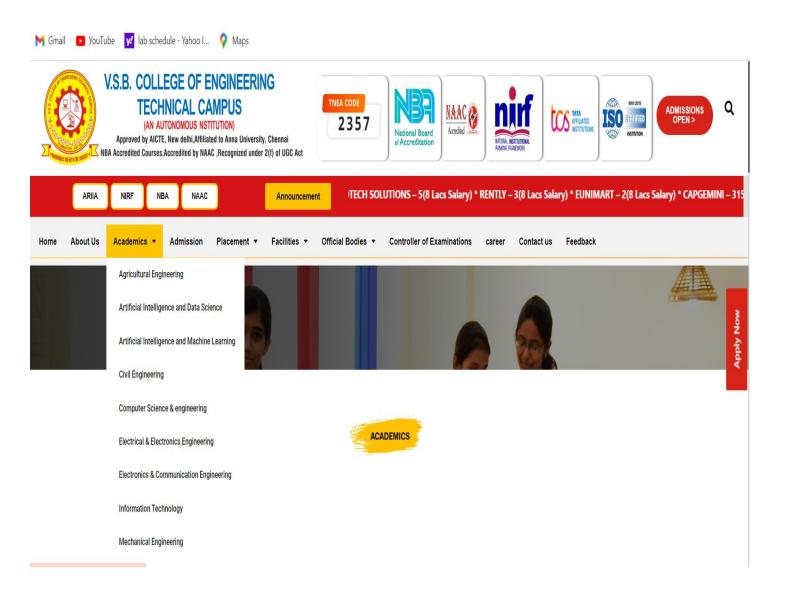


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#### **ENGINEERING PROGRAMS**



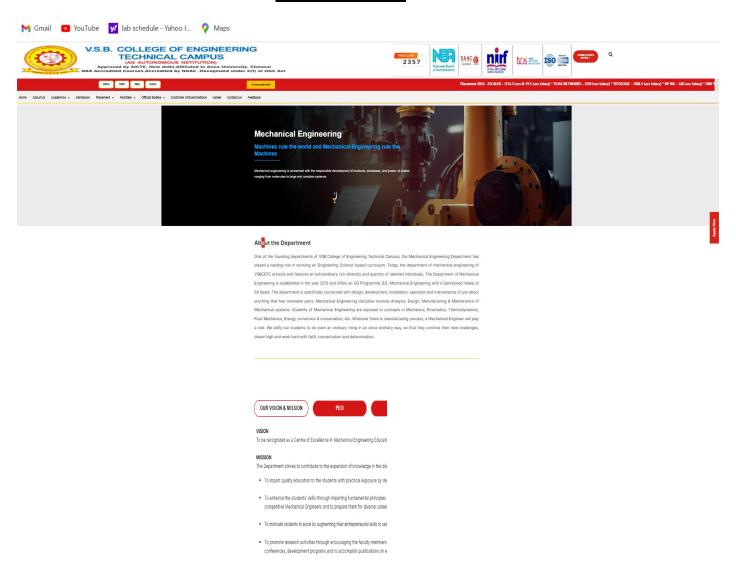




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#### **ENGINEERING PROGRAM- MECHANICAL ENGINEERING**

#### **VISION MISSION**







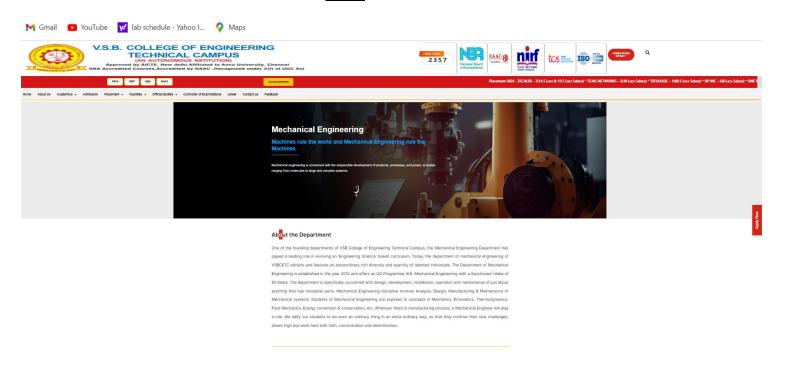
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#### **ENGINEERING PROGRAM- MECHANICAL ENGINEERING**

#### **PEOs**







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#### **ENGINEERING PROGRAM- MECHANICAL ENGINEERING**

#### **POs**

OUR VISION & MISSION PEO PO PSO
PROGRAM OUTCOMES
POI Trajencering knowledge. Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2 Problem analysis: Idontify, formulate, review research literature, and analyze complex engineering problems reaching substantiated concluders using first principles of mathematics, natural sciences, and engineering sciences.
PO3 Cospinideviolenter of substance Design solutions for complex cooperating problems and design system components or processes. That next the specified needs with appropriate consideration for the public health and safety, and the cultural, solicital, and environmental considerations.
PO4 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
POS  Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an undestanding of the limitations.
POG The orgineer and society: Apply masoning informed by the contentual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional origineering practice.
PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental controls, and demonstrate the knowledge of, and need for sustainable development.
POS Bit on Apply othical principles and commit to professional othics and responsibilities and norms of the engineering practice.
POB Amenical and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
POID Communication Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, some global to comprohered and write effective reports and design documentation, make effective presentations, and give and receive color instructions.
POII Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply those to conditions work, as a member and leader in a team, to manage projects and in mutilisticiplinary environments.
PO12 Life Long Learning: Recognize the read for, and have the preparation and ability to engage in independent and life-long learning in the

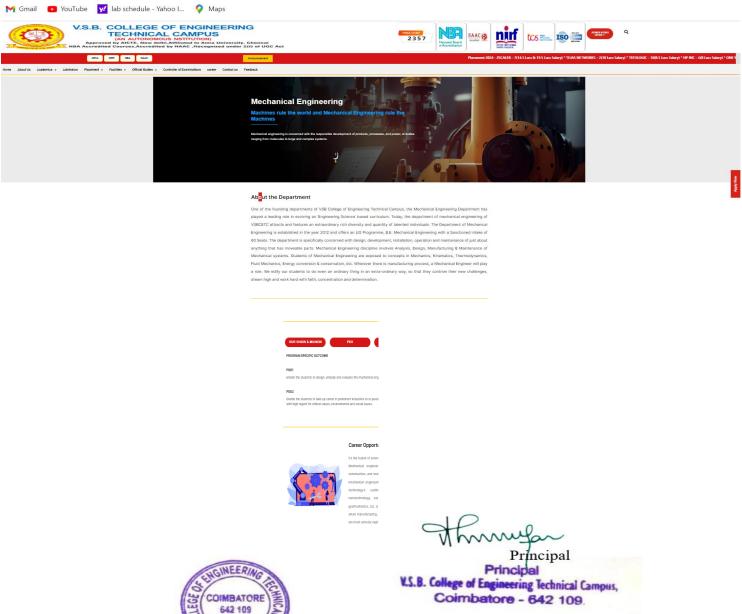




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#### **ENGINEERING PROGRAM- MECHANICAL ENGINEERING**

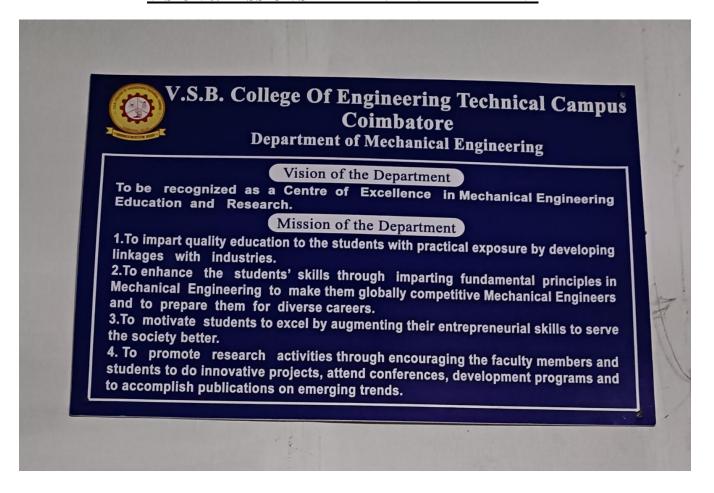
#### **PSOs**





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#### **VISION & MISSION STATEMENT IN DEPARTMENT**

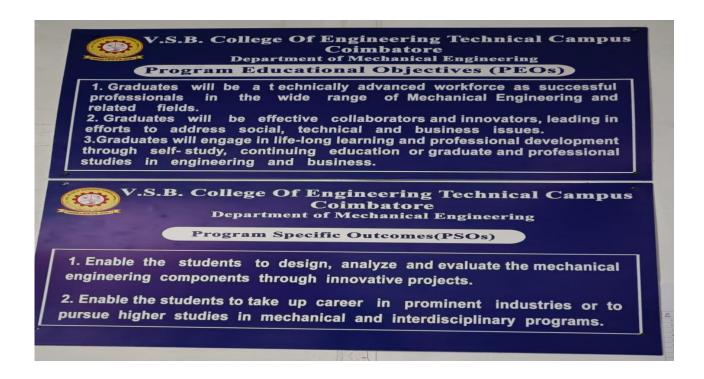


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#### PEOS &PSOS STATEMENT IN DEPARTMENT

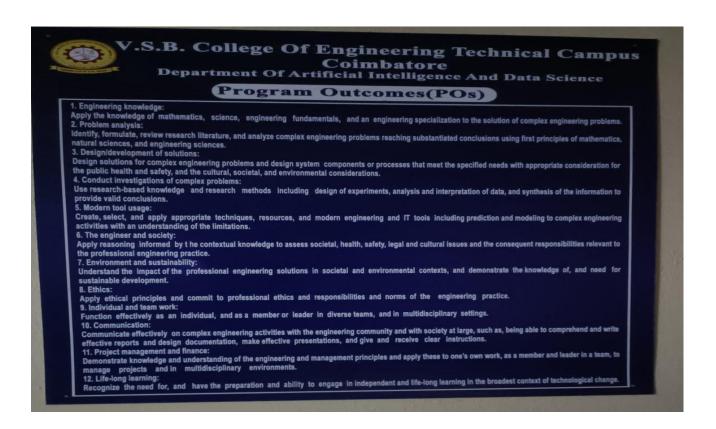






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#### PROGRAM OUTCOMES (Pos) IN CLASSROOMS







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#### COURSE OUTCOMES IN INTERNAL ASSESSMENT QUESTION PAPERS

		Reg. No		
		Reg. No	Tachnical Camp	ILS
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13				
2		NT OF MECHANICAL ENGINERNAL ASSESSMENT TEST		
	INTE	THERMAL ENGINEER	NG	
	ME 345	IV Semester / B.E. Mechan	ical Engineering	-4-23
/ !	Semester / Branch: II Year	11- THERMAL ENGINEER IV Semester / B.E. Mechan	Date: Time: 96 min	•
ear	Name: Mr.V.Karthikeyan		Time: 90 IIII	
lax. N		nswer ALL Questions (5x2=1	0 Marks)	CO3,L1]
		reaction turbine.	(Nov/Dec 19) [C	CO3,L1]
			IC	CO4,L1]
			(Nov/Dec 19) [0	204,L1]
		ing.	(April/May17) [C	:O4,L1]
		iswer ALL Questions (2x13=	urbine is 1000 m/s and th	e nozzle
(-)	The velocity of steam leavi	ng the nozzle of an impulse ocity is 350 m/s and the bla	de velocity of coefficient	is 0.85.
.(a)	angle is 20°. The blade vel	ocity is 350 m/s and the bla nock at inlet calculate for a ma inlet angle Driving force on	ss flow of 1.5 kg/s and syn	er in the
	Assuming no losses due to si	inlat angle Driving force on	the wheel, (ii) Axial thru	CO3.L51
	blading. Estimate (i) Blade wheel and (iii) Power develo	nock at inlet calculate for a ma inlet angle Driving force on ned by the turbine.	(13) [	
				CO3,L2]
	E lain the working principl	e of any 2 types of Governing		
6.(b)	Explain the working planets	e of any 2 types of Governing in for 2 stroke SI Engine and e	(April/May17) (13)	CO4,L21
7.(a)				
		OR .	explain the salient points.	
7 (6)	Deputhe Valve timing diagr	OR cam for 4 stroke CI Engine and	(13) [	CO4,L2]
7.(b)	Diaw the varve timing in b	0 -tion (1+14=	14 Marks)	
	PART-C	Answer the Question (1x14= has one ring of moving blade from the stage is 85 m/s at a	s running at 150 m/s. Th	e absolute
8.(a)	A simple impulse turbine h	has one ring of most at a	n angle of 80° from the	he stage is
2000				
	25 kg/s If the blades ar	efficient is 0.82 and velocite equiangular. Draw velocite absolute velocity of steam is	suing from the nozzle and	(iv) Axial
	angles,(ii) Nozzle angle (iii)	absolute velocity of steam is	(14)	CO3,L3]
	thrust	OR		.*
B.(b)	Write short notes on follow	ring parts ank shaft (C) Piston rings (d)	Cylinder IIII	[CO4,L2]
	(a) Connecting rod (b) Cit	****	valocity triangles, underst	and the
CO3-	To Evaluating the performan	nce of steam turbines through	renount in magazin	
need	for governing and compoundi	ng of turbines IC engines and various auxilia I (Inderstanding; L3: Appl)	ary systems present in IC e	ngines
CO4:	To analyzing the working of	Understanding; L3: Apply	ing L4: Analyzing L5: E	valuating
L	. Kemembering; L2.	United and the second	Approved	111111111111111111111111111111111111111
	Prepared by 1014123		(HOD-MI	
	(Mr.V.Karthikeyan)		(1.35-11.	
Form		Rev.No. 01	Effective Date	02/08/2021
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Compaters 642100 Tamilhadu India Email: office@yeheate.com Wabsite: www.yeheate.com

Reg. No DEPARTMENT OF MECHANICAL ENGINEERING INTERNAL ASSESSMENT TEST I ME 8094-COMPUTER INTEGRATED MANUFACTURING SYSTEMS Year/Semester & Branch: IV / VIII & B.E. Mechanical Engineering Faculty Name: V.Karthikeyan Date: 27-2-2023 Max. Marks: 50 Time: 90 min PART-A Answer ALL Questions (5×2=10 Marks) (Apr / May 2018) [CO1 L1] State Concurrent Engineering. (Nov / Dec 2018) [CO1,L1] Define automation. 2. Mention the factors to be considered in selection of coding system. (Apr/May 2019) [CO2, L1] [CO2, L1] Differentiate between Aggregate Production planning and MPS. Mention the prerequisites for process planning. [CO2, L1] PART-B Answer ALL Questions (2×13=26 Marks) (i) Explain about computerized elements of a CIM system. (Apr /May 2018) (9)[CO1, L2] (Apr /May 2018) (4)[CO1, L2] (ii) Brief on the benefits obtained by CIM. (13)[CO1,L2] (b) Explain the basic elements of an automated system. The annual demand for a certain item made to stock 25000 per/year. One unit of the item cost Rs 200 and holding cost rate 19% per year. Setup cost produce a batch is 6 hrs. The cost of equipment downtime plus labour Rs 2250/hr. Find (i) EOQ (ii) Total inventory cost (iii) Total (Apr/May 2019) (13)[CO2, L2] OR Monthly consumption of an item is 600 units. The price for unit is Rs 35. Inventory Carrying cost is 18% and ordering cost is Rs 60 per order. Lead time of one month stock. Find (i) Reorder quantity (ii) Minimum, Maximum Level (iii) Reorder level (iv) Average inventory. PART-C Answer the Question (1×14=14 Marks) (Apr / May 2017) (9) [CO1, L2] (Apr / May 2017) (5) [CO1, L2] (i) Examine job shop and Mass production.
 (ii) Demonstrate the significance of JIT philosophy. OR Explain the inputs to MRP and various MRP outputs. Also list the various benefits of MRP. (14) [CO2, L2] CO 1: Gain knowledge on the basics of CAD/CAM and CIM integration. CO 2: Understand learn the concepts of production planning and control and computerized process planning L2: Understanding; L3: Applying L1: Remembering; (V.Karthikeyan) Rev. No. 01 Form No. AC 08d

COMBATORE 642 109

# Selection Community (1)

# **VSB College of Engineering Technical Campus**

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#### COURSE OUTCOMES IN INTERNAL ASSESSMENT ANSWER SCRIPTS

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11	nechanical Engineer		11/4/23 APW  9  Superintendent with Radio Radio	= 240 = 240 = 240
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Total CO Total Shorts  Small Total = 51(50	coattained Martis	Total  CO-Fotal Marks  [ 9  Ali   Grammar  S 9	Princip Princip Princip Princip Princip Point S.B. College of Engineering Tech Coimbatore - 642	nical Campus,



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apper C	Paper Code  Tick (V) the questions attended	M 6 809	Comarks	Q No. 6 (a) 6 (b) 7 (a)	No. of pa	PART -	10   col     (1)   (2)	(II)	(n)	-ka
apact C	Paper Code  Tick (V) the questions attended	PART A  COlmarka  2	Comarks  2	@ No.  @ (n)  @ (b)  7 (n)	Tick (/) t Question (t)	PART -	- 10 cols - 6	(III)	(I)	-ka
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#### COURSE OUTCOMES IN INTERNAL ASSESSMENT MARK STATEMENT



#### VSB College of Engineering Technical Campus

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Department of Mechanical Engineering Academic Year: 2022-2023 (Even Semester) Marks Statement for Internal Assessment Test II

Degree, Semester & Branch:B.E, IV& Mechanical Engineering Course Code & Title:ME3451& Thermal Engineering
Name of the Faculty member: V.Karthikeyan

Max. Marks: 100

SI. No.	Reg. No.	Name of the Student	Marks Scored	СОЗ	CO4	CO1	CO2
1.	723721114001	ABDUL NAJEEF M	62	34	28	54.84	73.68
2.	723721114002	ANAND G	50	06	44	17.64	66.67
3.	723721114004	ARUN KRISHNAN M	36	12	24	19.35	63.16
4.	723721114005	BALA SUBRAMANIAN G	36	00	36	0.00	94.74
5.	723721114007	EZHIL SARATHY MS	52	30	22	48.39	57.89
6.	723721114008	HARISH N	36	02	34	3.23	89.47
7.	723721114009	KARTHIK N	68	58	10	93.55	26.32
8.	723721114011	LOGESH N	62	38	24	61.29	63.16
9.	723721114012	MOHAMED RIYAS S	34	22	12	35.48	31.58
10.	723721114013	MUKESH KUMAR S	24	08	16	12.90	42.11
11.	723721114014	MUTHURAM R	28	24	04	38.71	10.53
12.	723721114016	RAHUL RS	50	10	40	29.41	60.61
13.	723721114017	RAMESH KANNAN P	52	12	40	35.29	60.61
14.	723721114018	RAMSIVAM B	66	50	16	80.65	42.11
15.	723721114019	SANJAY KUMAR N	46	24	22	38.71	57.89
16.	723721114021	VISHNU KARTHIK G	50	30	20	48.39	52.63
17.	723721114301	AJAY AADHIRAAJ.V	40	06	34	9.68	89.47
18.	723721114303	DINESH KUMAR S	52	08	44	23.52	66.67
19.	723721114304	YAVINDRAPRABHU N	40	18	22	29.03	57.89

Attainment Level*	CO 3: -	C	0 4: -	Overall Attainme	ent: -
Lowest Marks: 24	Ave	erage Mai	rks: 46.52	Highest N	larks: 68
No. of Students failed (*100	scored mark	s < 50 ou	t of 100) / 1	Percentage (a/n)	09/47.37%
No. of Students Scored					10/ 52.63%
No. of Students Scored	> 60 marks	(x) / Perc	entage (x/n	) *100)	04 /21.05%
No. of Students appear	ed (n)	19	No. of S	tudents absent (a)	· 19

Number of Students Scored Marks in Various Ranges:

<50: 09; 50-60: 06; 61-70:04; 71-80: 0; 81-90: 0; 91-100: 0</p>
\*Attainment Level 1: 60 % Students Scoring More than 60% of Marks; Attainment Level 2: 70 % Students Scoring More than 60% of Marks; Attainment Level 3: 80 % Students Scoring More than 60% of Marks; Attainment Level 3: 80 % Students Scoring More than 60% of Marks

V' July 33/4/25 Signature of the Valuer with date:

Form No. AC 08a

Rev .No. 01 58

Effective Date: 02/08/2021

Principal

V.S.B. College of Engineering Technical Campus, Coimbatore - 642 109





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#### College of Engineering Technical Campus



## SB College of Engineering Technical Campus

Approved by AICTE, New Delhi & Affiliated to Anna University
Colimbatore to pollachi Road NH - 209, Ealur Privu, Kinathukadavu Taluk,
Colimbatore - 642109, Tamilnadu, India. Email: office@vabcetc.com Website: www.vabcetc.com
Department of MechanicalEngineering
Academic Year: 2022, 2022

Academic Year: 2022-2023 (Even Semester)

Marks Statement for Internal AssessmentTest I

Degree, Semester & Branch: B.E. VIII & Mechanical Engineering
Course Code & Title: ME 8094 & Computer Interated Manufacturing System
Name of the Faculty member: Mr.V.Karthikeyan Max. Marks: 100

l. No.	Reg. No.	Name of the Student	Marks Scored	CO1	CO2	CO1	CO2
1.	723719114001	ABIN P.A	88	42	36	67.74	94.74
2.	723719114003	ALLAN MARIANNAN.A	82	44	38	72.13	100.00
3.	723719114004	ANEESH KUMAR .V	82	44	38	70.97	100.00
4.	723719114005	ARUNRAJ L R	70	42	28	67.74	73.68
5.	723719114006	DEEPAK .S	92	54	38	87.10	100.00
6.	723719114008	GOKUL NATHAN .P	92	56	36	90.32	94.74
7.	723719114009	HARI PRAKASH .M	92	54	38	87.10	100.00
8.	723719114010	KAMALESH .K.B	86	48	38	77.42	100.00
9.	723719114011	LAVANYA .P.A	98	60	38	96.77	100.00
10.	723719114012	MAHAMUNI .S	88	54	34	87.10	89.47
11.	723719114014	MOUN MANOJ .A	88	60	38	96.77	100.00
12.	723719114016	NANDHAKUMAR .S	94	58	34	93.55	89.47
13.	723719114017	NAVEEN .G	84	46	38	74.19	100.00
14.	723719114018	PRAVIN .S	88	50	38	80.65	100.00
15.	723719114019	PREM KUMAR .M	84	46	38	74.19	100.00
16.	723719114020	RAGHURAM R.K.	70	32	38	51.61	100.00
17.	723719114021	ROHITH.S	84	46	38	74.19	100.00
18.	723719114023	SARAVANA KUMAR P	66	32	34	51.61	89.47
19.	723719114025	SASIKUMAR .C	88	54	34	87.10	89.47
20.	723719114026	SAUNDARA RAJAN .R	70	32	38	51.61	100.00
21.	723719114027	SUDHAKAR.N	78	40	38	64.52	100.00
22.	723719114029	SUGUMAR .M	80	46	34	74.19	89.47
23.	723719114030	UTHYA KUMAR .A	64	26	38	41.94	100.00
24.	723719114031	VARADHARAJA PERUMAL .R	64	34	30	54.84	78.95
25.	723719114032	VARUN KUMAR .P	78	40		64.52	100.00
26.		TO A STORAGE D	94	56		90.32	_
27.		YOGESH.M	52	22		35.48	78.95
28	1251151	The second of th	76	38	38	61.29	100.00
29		DARSHISH	72	40		64.52	_
30	. 723719114303	THE PROPERTY	64	30			
31			88	54			
32			88	50	38	80.65	100.00

Form No. AC 08a

73Rev No. 01

Effective Date: 02/08/2021

to i year) considering over

COIMBATORE 642 109

Principa

Principal

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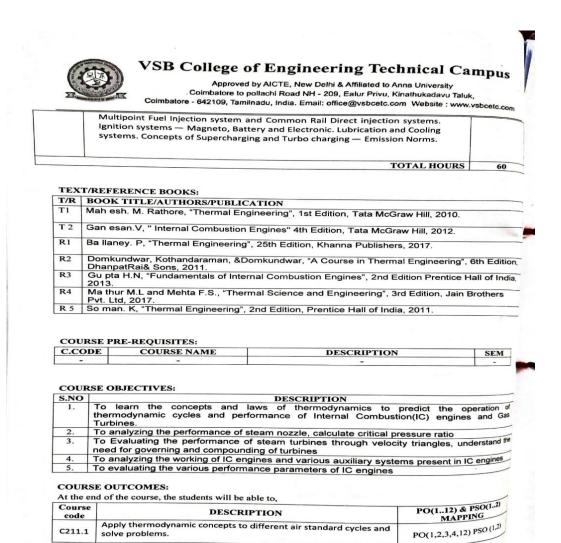
No essentiate apparent (a	32 No. of St	udents absent (a)	00
No. of Students appeared (n No. of Students Scored > 60	marks (x) / Percentage (x/n	) - 100)	31/96
No. of Students Scored > 60 No. of Students Scored ≥ 50	marks (y) / Percentage (y/n)	7 - 100	32/ 100%
No. of Students Scored ≥ 50 No. of Students falled (score	d marks < 50 out of 100) / P	ercentage (a/n)	and of
*100		Ittehan	0/9% Marks: 98
Lowest Marks: 52	Average Marks: 80.75	Overall Attainm	THEREN: 9H
	CO 2: -3	Over all Attainm	ent: -3
		91-100: 06	
Number of Students Scored <50: 0;50-60: 01; 61-70:07; *Attainment Level 1:60 % Students Sco 60% of Marks; Attainment Level 3:80	71-80: 05; 81-90. 13	ment Level 2 : 70 % Stud	rests Scenting 64
60% of Marks; Attainment Level 3 : 80	% Students Scoring More than 60% of	Marks	The second disc
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Signature of the Valuer wit	h date: HOD	my	Principal
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#### COURSE OUTCOMES IN FACULTY COURSE FILE





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C211:2	To solve problems in steam nozzle and calculate critical pressure ratio.	PO(1,2,3,4,12) PSO (1,2)
C211.3:	Explain the flow in steam turbines, draw velocity diagrams, flow in	PO(1,2,3,4,12) PSO (1,2)
C211.4:	Explain the functioning and features of IC engine, components and auxiliaries.	PO (1,2,3,4,12) PSO (1,2)
C211.5:	Calculate the various performance parameters of IC engines	PO (1,2,3,4,12) PSO (1,2)

COURSE OUTCOME Versus PO& PSO MAPPING (DETAILED; HIGH:3; MEDIUM:2; LOW:1):

COURSE	·									100	PO	PO	PSO	PSO
Course	PO	PO	PO	PO	PO	PO	PO 7	PO 8	PO 9	PO 10	11	12	1	2
code	1		3	-	-	-				_	-	1	2	1
C301.1	3	2	1	1		-	-	-	_			1	2	1
C301.2	3	2	2	1	-	-	-	-	-	-	-	1	-	-
		-		-		196.0	1 020	-	-	-	-	1	2	1
C301.3	3	2	2	1	-	-						1	2	1
C301.4	3	2	1	1	-	1 -	-	-	-	-	-	-	-	1
		2	4	1			-	-	-	-	-	1	2	1
C301 5	3	1 2 1	1	1	-	_	Contract of the Contract of th							

\* For Entire Course, PO/PSO Mapping: 1 (Low); 2(Medium); 3(High) Contribution to PO/PSO

POI	Engineering Knowledge	PO7	Environment & Sustainability	PSO1	Professional Skills
	Problem Analysis	PO8	Ethics	PSO2	Competency
	Design & Development	PO9	Individual & Team Work		
	Investigations	PO10	Communication Skills		
PO5	Modern Tools	PO11	Project Management & Finance		
PO6	Engineer & Society	PO12	Life Long Learning		

CARS IN THE SVI LARUS - TO MEET INDUSTRY/PROFESSION REQUIREMENTS, POS:

GAPS IN THE SYLLABUS - TO MEET INDUSTRY/FROFESSION REQUIRE		PROPOSED
SNO	DESCRIPTION	ACTIONS
	ion characteristics of IC engine using 5 gas analyzer	Seminar

PROPOSED ACTIONS: TOPICS BEYOND SYLLABUS/ASSIGNMENT/INDUSTRY VISIT/GUEST LECTURER/NPTEL ETC

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