

EXCEL ENGINEERING COLLEGE (AUTONOMOUS)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Accredited by NBA(AERO, CSE, ECE, MECH), NAAC with "A'" and Recognised by UGC (2f & 12B)

KOMARAPALAYAM - 637303

DEPARTMENT OF MECHANICAL ENGINEERING

GATE EXAM

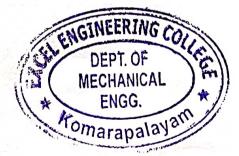
ACADEMIC YEAR (2022-2023)

S.No.	YEAR	Name of the Activity	Number of Students attended / Participated	Remarks
1	2022 -2023	Competitive coaching and motivational program for Higher education	40	
2	2022 -2023	Being an Engineer - Career Guidance Program	60	

Staff Incharge

HOD/MEC





HEAD OF THE DEPARTMENT MECHANICAL ENGINEERING EXCEL ENGINEERING COLLEGE KOMARAPALAVAM : 657 202

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EXCEL ENGINEERING COLLEGE

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DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

Date: 07.10.2022

It is informed that there will be a "GATE Coaching Class" starts from 10.10.2022 onwards at 4.30 PM to 6.00 PM in Paavaiammal Hall for our department students. So I request the faculty members to permit the students to attend without fail.

HOD/MECH

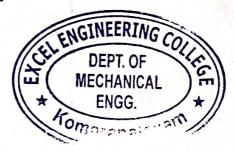
TO

1. Department Notice Board

N. Natara

Copy to,

- 1. Circulated to all faculty members
- 2. Principal
- 3. File



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DEPARTMENT OF MECHANICAL ENGINEERING

GATE COACHING CLASS SCHEDULE

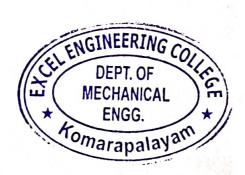
(10.10.2022 to 14.10.2022)

S.NO	DAY	TOPIC	FACULTY NAME	DEPT	TIME	REMARKS
1	Monday (10.10.2022)	Heat Transfer	Dr.N.Tamilselvan	месн	4.30 PM to 6.00 PM	May
2	Tuesday (11.10.2022)	Thermodynamics	Dr.R.Vinoth	МЕСН	4.30 PM to 6.00 PM	\sim
3	Wednesday (12.10.2022)	Fluid Mechanics	Dr.N.Venkadachalam	МЕСН	4.30 PM to 6.00 PM	Je in
4	Thursday (13.10.2022)	Machine Design	Mr.V.Karthikeyan	МЕСН	4.30 PM to 6.00 PM	Jul 1
5	Friday (14.10.2022)	Engineering Mechanics	Mr.T.M.Sakthimuruga	MECH	4.30 PM to 6.00 PM	13.9

STAFF COORDINATOR

HOD/MECH

HEAD OF THE DEPARTMENT MECHANICAL ENGINEERING, EXCEL ENGINEERING COLLEGE KOMAKAPALAJAM - 657 JUS.



GATE SYLLABUS

ME Mechanical Engineering

Section 1: Engineering Mathematics

Unear Algebra: Matrix algebra, systems of linear equations, eigenvalues and eigenvectors.

Calculus: Functions of single variable, limit, continuity and differentiability, mean value theorems, indeterminate forms; evaluation of definite and improper integrals; double and triple integrals; partial derivatives, total derivative, Taylor series (in one and two variables), maxima and minima, Fourier series; gradient, divergence and curl, vector identities, directional derivatives, line, surface and volume integrals, applications of Gauss, Stokes and Green's theorems.

Differential equations: First order equations (linear and nonlinear); higher order linear differential equations with constant coefficients; Euler-Cauchy equation; initial and boundary value problems; Laplace transforms; solutions of heat, wave and Laplace's equations.

Complex variables: Analytic functions; Cauchy-Riemann equations; Cauchy's integral theorem and integral formula; Taylor and Laurent series.

Probability and Statistics: Definitions of probability, sampling theorems, conditional probability; mean, median, mode and standard deviation; random variables, binomial, Poisson and normal distributions.

Numerical Methods: Numerical solutions of linear and non-linear algebraic equations; integration by trapezoidal and Simpson's rules; single and multi-step methods for differential equations.

Section 2: Applied Mechanics and Design

Engineering Mechanics: Free-body diagrams and equilibrium; trusses and frames; virtual work; kinematics and dynamics of particles and of rigid bodies in plane motion; impulse and momentum (linear and angular) and energy formulations, collisions.

Mechanics of Materials: Stress and strain, elastic constants, Poisson's ratio; Mohr's circle for plane stress and plane strain; thin cylinders; shear force and bending moment diagrams; bending and shear stresses; deflection of beams; torsion of circular shafts; Euler's theory of columns; energy methods; thermal stresses; strain gauges and rosettes; testing of materials with universal testing machine; testing of hardness and impact strength.

Theory of Machines: Displacement, velocity and acceleration analysis of plane mechanisms; dynamic analysis of linkages; cams; gears and gear trains; flywheels and governors; balancing of reciprocating and rotating masses; gyroscope.

Vibrations: Free and forced vibration of single degree of freedom systems, effect of damping; vibration isolation; resonance; critical speeds of shafts.

Machine Design: Design for static and dynamic loading; failure theories; fatigue strength and the S-N diagram; principles of the design of machine elements such as bolted, riveted and welded joints; shafts, gears, rolling and sliding contact beginns, brakes and clutches, springs.

MECHANICAL ENGG.

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Section 3: Fluid Mechanics and Thermal Sciences

Fluid Mechanics: Fluid properties: fluid statics, manometry, buoyancy, forces on submerged bodies, stability of floating bodies; control-volume analysis of mass, momentum and energy; fluid acceleration; differential equations of continuity and momentum; Bernoulli's equation; dimensional analysis; viscous flow of incompressible fluids, boundary layer, elementary turbulent flow, flow through pipes, head losses in pipes, bends and fittings.

Heat-Transfer: Modes of heat transfer; one dimensional heat conduction, resistance concept and electrical analogy, heat transfer through fins; unsteady heat conduction, lumped parameter system, Heisler's charts; thermal boundary layer, dimensionless parameters in free and forced convective heat transfer, heat transfer correlations for flow over flat plates and through pipes, effect of turbulence; heat exchanger performance, LMTD and NTU methods; radiative heat transfer, Stefan-Boltzmann law, Wien's displacement law, black and grey surfaces, view factors, radiation network analysis.

Thermodynamics: Thermodynamic systems and processes; properties of pure substances, behaviour of ideal and real gases; zeroth and first laws of thermodynamics, calculation of work and heat in various processes; second law of thermodynamics; thermodynamic property charts and tables, availability and irreversibility; thermodynamic relations.

Applications: Power Engineering: Air and gas compressors; vapour and gas power cycles, concepts of regeneration and reheat. I.C. Engines: Air-standard Otto, Diesel and dual cycles. Refrigeration and air-conditioning: Vapour and gas refrigeration and heat pump cycles; properties of moist air, psychrometric chart, basic psychrometric processes. Turbomachinery: Impulse and reaction principles, velocity diagrams, Pelton-wheel, Francis and Kaplan turbines.

Section 4: Materials, Manufacturing and Industrial Engineering

Engineering Materials: Structure and properties of engineering materials, phase diagrams, heat treatment, stress-strain diagrams for engineering materials.

Casting, Forming and Joining Processes: Different types of castings, design of patterns, moulds and cores; solidification and cooling; riser and gating design. Plastic deformation and yield criteria; fundamentals of hot and cold working processes; load estimation for bulk (forging, rolling, extrusion, drawing) and sheet (shearing, deep drawing, bending) metal forming processes; principles of powder metallurgy. Principles of welding, brazing, soldering and adhesive bonding.

Machining and Machine Tool Operations: Mechanics of machining; basic machine tools; single and multi-point cutting tools, tool geometry and materials, tool life and wear; economics of machining; principles of non-traditional machining processes; principles of work holding, design of jigs and fixtures.

Metrology and Inspection: Limits, fits and tolerances; linear and angular measurements; comparators; gauge design; interferometry; form and finish and assembly.

Computer Integrated Manufacturing: Basic Concepts of CAD/CAM and their integration tools.

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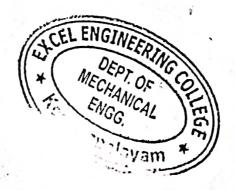
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Production Planning and Control: Forecasting models, aggregate production planning, scheduling, materials requirement planning.

Inventory Control: Deterministic models; safety stock inventory control systems.

Operations Research: Linear programming, simplex method, transportation, assignment, network flow models, simple queuing models, PERT and CPM.





Syllabus for General Aptitude (GA)

(COMMON TO ALL PAPERS)

Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning and verbal deduction.

Numerical Ability: Numerical computation, numerical estimation, numerical reasoning and data interpretation.

Sample Questions

Verbal	A	bility
--------	---	--------

Q.1. (Choose the	appropriate answer	to complete the	following sentence:
--------	------------	--------------------	-----------------	---------------------

To those of us who had always thought him timid, his ----- came as a surprise.

(A)	intrepidity	(B)	inevitability	(C)	inability	(D)	inertness
Ans.	(A)						
Q.2.	Choose the a	арргорі	riate answer to	comp	lete the fo	llowi	ng sentence

Ų	.2.	Choose	ine appro	priate ansv	ver to con	ipiete the i	ollowing	sentence

Medicine	is to i	liness	as	law	is	to	
4 - 4							

etiquette discipline (B) anarchy (C) treason (D) (A)

Ans. (B)

Q.3. Read the following paragraph:

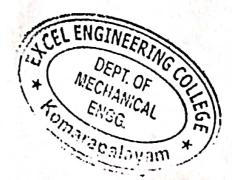
"The ordinary form of mercury thermometer is used for temperature ranging from -40°F to 500°F. For measuring temperature below -40°F, thermometers filled with alcohol are used. These are, however, not satisfactory for use in high temperatures. When a mercury thermometer is used for temperature above 500°F, the space above the mercury is filled with some inert gas, usually nitrogen or carbon dioxide, placed in the thermometer under pressure. As the mercury rises, the gas pressures is increased, so that it is possible to use these thermometers for temperatures as high as 1000°F."

With what, besides mercury, would a thermometer be filled if it was designed to be used for measuring temperature of about 500°F?

(A) Pyrometer (B) Inert gas (C) Iron and brass (D) Gas

Ans. (B)





Q.4. The cost of manufacturing tractors in Korea is twenty percent less than the cost of manufacturing tractors in Germany. Even after transportation fees and import taxes are added, it is still cheaper to import tractors from Korea to Germany than to produce tractors in Germany.

Which of the following assertions is best supported by the above information?

- (A) Labour costs in Korea are twenty percent below those in Germany.
- (B) Importing tractors into Germany will eliminate twenty percent of the manufacturing jobs in Germany.
- (C) The costs of transporting a tractor from Korea to Germany is more than twenty percent of the cost of manufacturing the tractor in Korea.
- (D) The import taxes on a tractor imported from Korea to Germanyis less than twenty percent of the cost of manufacturing the tractor in Germany.

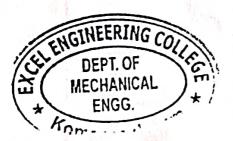
Ans. (D)

Numerical Ability

Q.5. In a survey, 3/16 of the people surveyed told that they preferred to use publictransport while commuting daily to office. 5/8 of the people surveyed told that they preferred to use their own vehicles. The remaining 75 respondents said that they had no clear preference. How many people preferred to use publictransport?

(A) 75 (B) 100 (C) 125 (D) 133

Ans. (A)





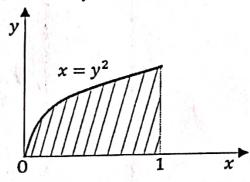
Q, 1-Q, 25 carry one mark each.

Consider the matrix 0.1

$$P = \begin{bmatrix} 1 & 1 & 0 \\ 0 & 1 & 1 \\ 0 & 0 & 1 \end{bmatrix}$$

The number of distinct eigenvalues of P is

- (A) 0
- (B) 1
- (C) 2
- (D) 3
- A parabola $x = y^2$ with $0 \le x \le 1$ is shown in the figure. The volume of the solid of rotation Q.2 obtained by rotating the shaded area by 360° around the x-axis is



(A) $\frac{\pi}{4}$

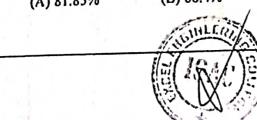
(B) $\frac{\pi}{2}$

(C) n

- (D) 2π
- For the equation $\frac{dy}{dx} + 7x^2y = 0$, if y(0) = 3/7, then the value of y(1) is Q.3
 - (A) $\frac{7}{3}e^{-7/3}$

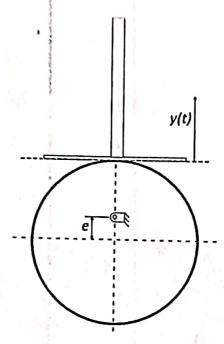
(C) $\frac{3}{7}e^{-7/3}$

- (B) $\frac{7}{3}e^{-3/7}$ (D) $\frac{3}{7}e^{-3/7}$
- The lengths of a large stock of titanium rods follow a normal distribution with a mean (μ) Q.4 of 440 mm and a standard deviation (a) of 1 mm. What is the percentage of rods whose lengths lie between 438 mm and 441 mm?
 - (A) 81.85%
- (B) 68.4%
- (C) 99.75%
- (D) 86.64%





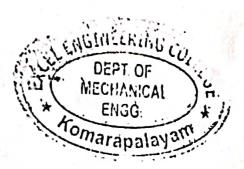
Q.5 A flat-faced follower is driven using a circular eccentric cam rotating at a constant angular velocity ω . At time t=0, the vertical position of the follower is y(0)=0, and the system is in the configuration shown below.



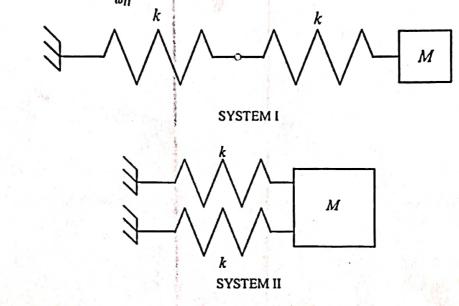
The vertical position of the follower face, y(t) is given by

- (A) $e \sin \omega t$
- (B) $e(1 + \cos 2\omega t)$ (C) $e(1 \cos \omega t)$ (D) $e \sin 2\omega t$





Q.6 The natural frequencies corresponding to the spring-mass systems I and II are ω_I and ω_{II} , respectively. The ratio $\frac{\omega_I}{\omega_{II}}$ is



- (A) $\frac{1}{4}$
- (B) $\frac{1}{2}$
- (C) 2
- (D) (4
- Q.7 A spur gear with 20° full depth teeth is transmitting 20 kW at 200 rad/s. The pitch circle diameter of the gear is 100 mm. The magnitude of the force applied on the gear in the radial direction is
 - (A) 0.36 kN
- (B) 0.73 kN
- (C) 1.39 kN
- (D) 2.78 kN
- Q.8 During a non-flow thermodynamic process (1-2) executed by a perfect gas, the heat interaction is equal to the work interaction ($Q_{1-2} = W_{1-2}$) when the process is
 - (A) Isentropic

(B) Polytropic

(C) Isothermal

(D) Adiabatic





- Q.9 For a hydrodynamically and thermally fully developed laminar flow through a circular pipe of constant cross-section, the Nusselt number at constant wall heat flux (Nu₄) and that at constant wall temperature (Nu₁) are related as
 - (A) $Nu_q > Nu_T$

(B) Nug < Nur

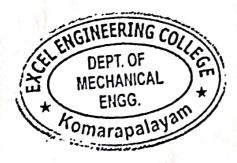
(C) $Nu_a = Nu_T$

- (D) $Nu_q = (Nu_T)^2$
- Q.10 As per common design practice, the three types of hydraulic turbines, in descending order of flow rate, are
 - (A) Kaplan, Francis, Pelton
 - (B) Pelton, Francis, Kaplan
 - (C) Francis, Kaplan, Pelton
 - (D) Pelton, Kaplan, Francis
- Q.11 A slender rod of length L, diameter d (L >> d) and thermal conductivity k_1 is joined with another rod of identical dimensions, but of thermal conductivity k_2 , to form a composite cylindrical rod of length 2L. The heat transfer in radial direction and contact resistance are negligible. The effective thermal conductivity of the composite rod is
 - (A) $k_1 + k_2$

(B) $\sqrt{k_1k_2}$

(C) $\frac{k_1 k_2}{k_1 + k_2}$

(D) $\frac{2k_1k_2}{k_1+k_2}$





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DEPARTMENT OF MECHANICAL ENGINEERING ATTENDANCE SHEET FOR GATE COACHING CLASS

(10.10.2022 TO 14.10.2022)

~	G. 1	October	October	October	October	October
S.No	Student Name	10-10-2022	11-10-2022	12-10-2022	13-10-2022	14-10-2022
1	AAKASH DEEP SHAH	Λ	P	P	P	P
2	AKASH P	P	P	P	P	P
3	AKHIL KUMAR	P	P	P	Α	P
4	ALSON TONGBRAM	Р ,	P	P	P P	P
5	ANIL LAMSAL	Р 🕽	P	P) P	P
6	ANKIT KUMAR	P	P	P	P	P
7	ARJUN P	P (P	P	P	P
8	ARUN R	P	P	Α	P	P
9	ARUNKUMAR A	P	P	P	P	P
10	ARUN PANDIYAN T	P	Α	P	P	P
11	ASHUTOSH KUMAR YADAV	P	P	P	P	P
12	BALAGANESH. R	P	P	P	P	P
13	BALAJI. M	P	P	P	P. ed.	A
14	BARATH M	P 1	P	P	PP	P
15	BOOPATHI G	P	P 7.0	P	SAME PLAN	P
16	BOOPATHI RAJA M	P	Α	P	P	P
17	DEVA K	P	P	P	Α	P
18	DILDAS PB	P 1	P	P	P	P
19	DINAKAR S	P	P	P	P	P
20	DINAKARAN P	P	P	· P	P	P
21	DINESH P	Ρ .	Α	P	P	P
22	DINESH KUMAR.S	Α '	P	P	P	P
23	GAURAB KUMAR DUBEY	P	P	P	P	P
24	GAUTAM KUMAR	P	P	P	A	P
25	GOKUL KRISHNA	P ?	P	P	P	P
26	GOKUL S	Р .	P	P	P	P
27	GOPINATH V	P	P	P	P	P
28	GULSHAN KUMAR THAKUR	P	P	P	P	P
29	GUNASEKAR. S	P	P	Α	P	P
30	HARIPRASATH S	P	P	P	P	P
31	MD FASHIULLAH	P	P	P	P	P
32	MD REHAN RAZA	P	P	. P	P	P
33	MEIPRAKASH.C	P	P	P	P	P
34	MITHUN KUMAR	P	P	P	P	P
35	MOHAMED ANWARKHAN.S	P	P	P	P	P
36	MOHAN.R	P 4	P	P	P	A
37	MOHANA PRIYA.P	P	A	P	P	P
38	MUHAMMED AMEEN	P	P	P	P	P
39	MUTHUVEL.G	P	P	P	P	P
40	DINESH M	P	P	P	P	P

STAFF COORDINATOR

N. Natavaj HOD/MECH

HEAD OF THE DEPARTMENT MECHANICAL ENGINEERING, EXCEL ENGINEERING COLLEGE KOMAPAPALATIZA - 637 JULY

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2022 - 2023

Indirect Assessment of Program Outcomes & Program Specific Outcomes through Curricular and Extracurricular Activities

	through Cu	ırricular and Extr	acurricular Activities
Student Name :	Grokul. S		Date: 10.10, 2022
Batch : 20	19-2023		Year/Semester: W/ VII - Se
Type of Activity:	Value added	course / Industria	Visit / Implant Training / Guest Lecturer/
			t/ Project Contest / Sports / Games / Social ackathon/ Ideathon / GATE Exam/ or any.
Organizing Institut	te: Excel	- ENGINEERI	NO COLLEGE (AUTONOMOUS)
Place: Kowas	LA PALAYA	М	
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1. Does this A	ctivity/ Cours	e improve your Tecl	hnical Skill?
3 🖃	2 🗆	1	
2. Does this A	ctivity /Cours	e improve your Prol	blem Solving Skill?
3 🔳	2 🗹	1□	
3. Does this to	raining / Cour	se improve your pra	actical Exposure?
3 🖳	2 🗆	1 🗆	

4.	Have you	learnt any mo	odern tools thro	ough this acti	vity/ training?	
	Yes 🖙	No @	if yes name of	tool		
5.	Does this	activity /train	ing useful to in	nprove your (orofessional ethics?	
	3 🗆	2 🗗	1 🗆		*	
6.	Does this	activity /train	ning useful to a	pply for any r	modern research program	s?
	3 🗹	2 🗆	1 🗖		Mary Mary	
7.	Have you	got any ideas	s to improve ou	ır environme	ntal & social needs?	
	3 🔲	2 🗆	1 🖳			
8.		u ever felt that this activity?	at your commu	nication skill	& leadership skill has be	en improved
		2 🗗			2 to to poss	
9.	Does this	Activity / tra	ining useful to i	improve lear	ning attitude with zeal?	
	3 🗹	2 🗆	1		No.	
10). Does this	s Activity /trai	ning useful for	you to work	in multi-disciplinary team	?
	A 5 4	2 🗆				The Aller
11	L. Does this				face any changes in your l	ife?
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ny c	other Comi	ments:		No.	APMALDERA 2 CO	
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Signature Signature

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2022 - 2023

Indirect Assessment of Program Outcomes & Program Specific Outcomes through Curricular and Extracurricular Activities

	through Cu	irricular and Ext	Tacumculai Activities	
Student Nan	ne: ARUN.R	Total .	Dat	e: 10.10.2022
Batch	: 2019 - 2023	Profits With the second of the	Year/Semeste	er: IV / VII
Type of Act	ivity: Value added	course / Industria	al Visit / Implant Training	/ Guest Lecturer/
Seminar / Co	onference / Worksh	op / Design Conte	st/ Project Contest / Sport	s / Games / Social
Activities / C	Certificate Program /	Diploma Course /l	nackathon/Ideathon/GAT	É Exam/ or any.
Organizing I	nstitute: EXCEL	e ngineer in	a college (AUT	OMOMOUS
Place: Ko	MARAPALAYA	М	The same of the sa	
Provide your	level of attainment fo	r the following quest	tions by \checkmark in the \square given,	
[3/2/1 Indica	tes Level of Attainme	nt; 3 – Very Much, 2	– Moderate, 1 – Some Extent	pet annual
1. Does	s this Activity/ Cours	e improve your Te	chnical Skill?	
3 ☑	2 🗆	1 🗆		
2. Does	s this Activity /Cours	se improve your Pro	oblem Solving Skill?	
3 [2 🛭	1 🗆		No.
3. Does	s this training / Cour	se improve your p	ractical Exposure?	
3 - [2 🗆	1 🗆		

4.	Have you	learnt any mo	odern tools through	this activity/ training?
	Yes 🗌	No ·	if yes name of tool _	
5.	Does this	activity /train	ing useful to improv	e your professional ethics?
	3 🛭	2 🗆	1 🗆	
6.	Does this	activity /train	ing useful to apply f	or any modern research programs?
	3 🗆	2 🗹	1 🗆	
7.	Have you	got any ideas	to improve our envi	ronmental & social needs?
	3 🔯	2 🗆	1 🗆	
8.		u ever felt that this activity?	t your communication	on skill & leadership skill has been improved
3.1	3 🗆	2 🗹	1	se n
9.	Does this	Activity / train	ning useful to improv	ve learning attitude with zeal?
	3 🗹	2 🗆	1 🗆	
10	. Does this	Activity /train	ing useful for you to	work in multi-disciplinary team?
	3 🗆	2 🗹	1	
()()11	. Does this	Activity /train	ing improve your mi	nd to face any changes in your life?
	3√□	2 🗀	1	CIAVA INTO INCIANT
Any o	ther Comn	nents:	X) and only	
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ACADEMIC YEAR: 2022 - 2023

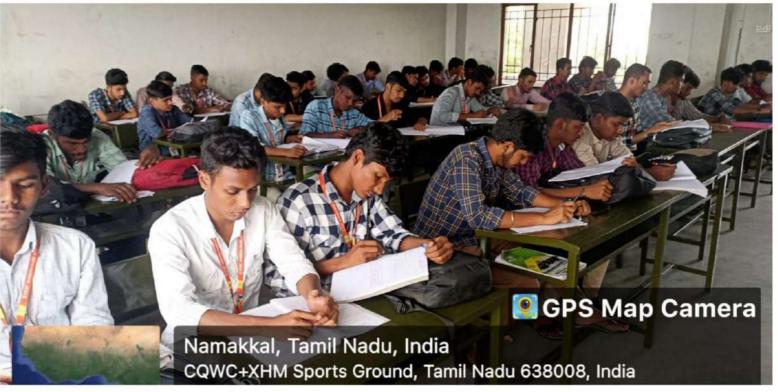
of Program Outcomes & Program Specific Outcomes

•			4	acurricular Activities
Stude	ent Name :	Ania Lama	Sal	Date: [0, 10, 20)3
Batch	197	old-5023		Year/Semester:\V / \\\\
Туре	of Activity:	Value added	l course / Industrial	Visit / Implant Training / Guest Lecturer/
Semi	nar / Confere	ence / Worksh	nop / Design Contest	/ Project Contest / Sports / Games / Social
Activi	ties / Certific	cate Program /	/ Diploma Course /ha	ckathon/ Ideathon / GATE Exam/ or any.
		ite: Excol		(Rutonomous)
Provid	le your level o	f attainment fo	r the following questio	ns by ✓ in the □ given,
[3/2/1	Indicates Lev	vel of Attainmen	nt; 3 – Very Much, 2 –	Moderate, 1 – Some Extent]
1.	Does this A	Activity/ Cours	e improve your Tech	nical Skill?
	3 T	2 🗆	1	
2.	Does this A	Activity /Cours	e improve your Prob	lem Solving Skill?
1	3 🗹	2 🗆	1□	
3.	Does this t	raining / Cour	se improve your pra	ctical Exposure?
	3 🗆	2 🗆	107	

4. Have you lea	arnt any mode	ern tools through	this activity/ training?	
Yes □ N	lo 🗹 Ify	es name of tool	-61	IVI'm
5. Does this ac	tivity /training	g useful to impro	ve your professional ethic	cs?
3 🗹	2 🗆	1		
6. Does this ac	ctivity /trainin	g useful to apply	for any modern research	programs?
3 🗆	2 🗹	10	in an a	
7. Have you g	ot any ideas t	o Improve our e	nvironmental & social nee	ds?
3 🗹	2 🗆	1 🗆		A A A A A A A A A A A A A A A A A A A
8. Have you e		your communic	ation skill & leadership sk	
/3/10 1//	2 🖂	1 🗆	66	O)
9. Does this A	Activity / train	ing useful to imp	prove learning attitude wit	th zeal?
3 🗹	2 🗆	1□		
10. Does this	Activity /train	ing useful for yo	u to work in multi-discipli	nary team?
3 🗹	2 🗆	1 🗆		
11. Does this	Activity /train	ing improve you	r mind to face any change	es in your life?
(.(U) 11/10 3 🗖	1. 1 6 B	10/10/10/1/	roompa7 Toses	
Any other Comm	nents:		unitation	gorourod
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Signature





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EXCEL ENGINEERING COLLEGE

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DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

Date: 3.11.2022

It is informed that there will be a "GATE Coaching Class" starts from 06.11.2022 onwards at 4.30 PM to 6.00 PM in Paavaiammal Hall for our department students. So I request the faculty members to permit the students to attend without fail.

HOD/MECH

N. Natava

TO

1. Department Notice Board

HEAD OF THE DEPARTMENT MECHANICAL ENGINEERING, EXCEL ENGINEERING COLLEGE KOMARAPALAYAM - 637 303.

Copy to,

- 1. Circulated to all faculty members
- 2. Principal
- 3. File



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KOMARAPALAYAM - 637303

DEPARTMENT OF MECHANICAL ENGINEERING

GATE COACHING CLASS SCHEDULE

(06.11.2022 to 10.11.2022)

S.NO	DAY	TOPIC	FACULTY NAME	DEPT	TIME	REMARKS
1	Monday (06.11.2022)	Heat Transfer	Dr.N.Tamilselvan	месн	4.30 PM to 6.00 PM	Juny
2	Tuesday (07.11.2022)	Thermodynamics	Dr.R.Vinoth	MECH	4.30 PM to 6.00 PM	CX/
3	Wednesday (08.11.2022)	Fluid Mechanics	Dr.N.Venkadachalam	MECH	4.30 PM to 6.00 PM	Uk
4	Thursday (09.11.2022)	Machine Design	Mr.V.Karthikeyan	MECH	4.30 PM to 6.00 PM	Control of the contro
5	Friday (10.11.2022)	Engineering Mechanics	Mr.T.M.Sakthimuruga	MECH	4.30 PM to 6.00 PM	122

STAFF COORDINATOR

DEPT. OF
MECHANICAL
ENGG.

* Tomarapalayam

HOD/MECH

HEAD OF THE DEPARTMENT MECHANICAL ENGINEERING, EXCELENGINEERING COLLEGE KOMARAPALAYAM - 637 303.

GATE SYLLABUS

Mechanical Engineering WE

Section 1: Engineering Mathematics

Unear Algebra: Matrix algebra, systems of linear equations, elgenvalues and elgenvectors.

Calculus: Functions of single variable, limit, continuity and differentiability, mean value theorems, indeterminate forms; evaluation of definite and improper integrals; double and triple Integrals: partial derivatives, total derivative, Taylor series (in one and two variables), maxima and minima, Fourier series; gradient, divergence and curl, vector identities, directional derivatives, line, surface and volume integrals, applications of Gauss, Stokes and Green's theorems.

Differential equations: First order equations (linear and nonlinear); higher order linear differential equations with constant coefficients; Euler-Cauchy equation; initial and boundary value problems; Laplace transforms; solutions of heat, wave and Laplace's equations.

Complex variables: Analytic functions; Cauchy-Riemann equations; Cauchy's integral theorem and integral formula; Taylor and Laurent series.

Probability and Stallstics: Definitions of probability, sampling theorems, conditional probability; mean, median, mode and standard deviation; random variables, binomial, Poisson and normal distributions.

Numerical Methods: Numerical solutions of linear and non-linear algebraic equations; integration by trapezoldal and Simpson's rules; single and multi-step methods for differential equations.

Section 2: Applied Mechanics and Design

Engineering Mechanics: Free-body diagrams and equilibrium; trusses and frames; virtual work; kinematics and dynamics of particles and of rigid bodies in plane molion; impulse and momentum (linear and angular) and energy formulations. collisions.

Mechanics of Materials: Siress and strain, elastic constants, Poisson's ratio; Mohr's circle for plane stress and plane strain; thin cylinders; shear force and bending moment diagrams; bending and shear stresses; deflection of beams; torsion of circular shafts; Euler's theory of columns; energy methods; thermal stresses; strain gauges and rosettes; testing of materials with universal testing machine; testing of hardness and impact strength.

Theory of Machines: Displacement, velocity and acceleration analysis of plane mechanisms; dynamic analysis of linkages; cams; gears and gear trains; flywheels and governors; balancing of reciprocating and rotating masses; gyroscope.

Vibralions: Free and forced vibration of single degree of freedom systems, effect of damping; vibration isolation; resonance; critical speeds of shalls.

Machine Design: Design for static and dynamic loading; failure-theories; faligue strength and the S-N diagram; principles of the design of machine elements strength und mand welded joints; shalls, gears, rolling and sliding contacts bolled, riveled and welded joints; shalls, gears, rolling and sliding contacts pas. brakes and clutches, springs. MECHANICAL

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Section 3: Fluid Mechanics and Thermal Sciences

Fluid Mechanics: Fluid properlies; fluid statics, manornalry, buoyancy, forces on submerged bodies, stability of floating bodius; control-volume analysis of mass, momentum and energy; fluid acceleration; differential equations of continuity and momentum; Bernoulli's equation; dimensional analysis; viscous incompressible fluids, boundary layer, elementary turbulent flow, flow through pipes, head losses in pipes, bends and lillings.

Heat-Transfer: Modes of heat transfer; one dimensional heat conduction, resistance concept and electrical analogy, heat transfer through fins; unsteady heat conduction, lumped parameter system, Heisler's charls; Thermal boundary layer, dimensionless parameters in free and forced convective heat transfer, heat transfer correlations for flow over flat plates and through pipes, effect of turbulence; heat exchanger performance, LMTD and NTU methods; radiative heat transfer, Stefan-Boltzmann law, Wien's displacement law, black and grey surfaces, view factors, radiation network analysis.

Thermodynamics: Thermodynamic systems and processes; properties of pure substances, behaviour of ideal and real gases; zeroth and first laws of thermodynamics, calculation of work and heat in various processes; second law of thermodynamics: thermodynamic property charts and tables, availability and irreversibility; thermodynamic relations.

Applications: Power Engineering: Air and gas compressors; vapour and gas power cycles, concepts of regeneration and reheat. I.C. Engines: Air-standard Otto, Diesel and dual cycles. Refrigeration and air-conditioning: Vapour and gas refrigeration and heat pump cycles; properties of moist air, psychrometric chart, basic psychrometric processes. Turbomachinery: Impulse and reaction principles, velocity

Section 4: Materials, Manufacturing and Industrial Engineering

Engineering Materials: Structure and properties of engineering materials, phase diagrams, heat treatment, stress-strain diagrams for engineering materials.

Casling, Forming and Joining Processes: Different types of castings, design of patterns, moulds and cores; solidification and cooling; riser and gating design. Plastic deformation and yield criteria; fundamentals of hot and cold working processes; load estimation for bulk (forging, rolling, extrusion, drawing) and sheet (shearing, deep drawing, bending) metal forming processes; principles of powder metallurgy. Principles of welding, brazing, soldering and adhesive bonding.

Machining and Machine Tool Operations: Mechanics of machining: basic machine tools; single and multi-point cutting tools, tool geometry and materials, tool life and wear; economics of machining; principles of non-traditional machining processes;

Melrology and Inspection: Limits, fils and tolerances; linear and angular measurements; comparators; gauge design; interferometry; form and finish measurement; alignment and testing methods; tolerance analysis in manufacturing and assembly.

Computer Integrated Manufacturing: Basic Concepts of CAD/CAM and their CEL ENGLINEERING COL

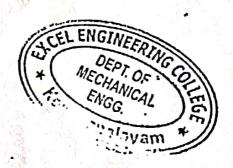


Production Planning and Control: Forecasting models, aggregate production planning, scheduling, materials requirement planning.

Inventory Control: Deterministic models: safety stock inventory control systems.

Operations Research: Linear programming, simplex method, transportation, assignment, network flow models, simple queuing models, PERT and CPM.





Syllabus for General Aptitude (GA)

(COMMON TO ALL PAPERS)

Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning and verbal deduction.

Numerical Ability: Numerical computation, numerical estimation, numerical reasoning and data interpretation.

Q.3. Read the following paragraph:

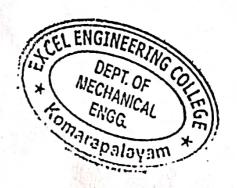
"The ordinary form of mercury thermometer is used for temperature ranging from -40° F to 500°F. For measuring temperature below -40° F, thermometers filled with alcohol are used. These are, however, not satisfactory for use in high temperatures. When a mercury thermometer is used for temperature above 500°F, the space above the mercury is filled with some inert gas, is used for temperature above 500°F, the space above the mercury is filled with some inert gas, usually nitrogen or carbon dioxide, placed in the thermometer under pressure. As the mercury rises, the gas pressures is increased, so that it is possible to use these thermometers for temperatures as high as 1000° F."

With what, besides mercury, would a thermometer be filled if it was designed to be used for measuring temperature of about 500°F?

(A) Pyrometer (B) Inert gas (C) Iron and brass (D) Gas

Ans. (B)





Q.4. The cost of manufacturing tractors in Korea is twenty percent less than the cost of manufacturing tractors in Germany. Even after transportation fees and import taxes are added, it is still cheaper to import tractors from Korea to Germany than to produce tractors in Germany.

Which of the following assertions is best supported by the above information?

- (A) Labour costs in Korea are twenty percent below those in Germany.
- (B) Importing tractors into Germany will eliminate twenty percent of the manufacturing jobs in Germany.
- (C) The costs of transporting a tractor from Korea to Germany is more than twenty percent of the cost of manufacturing the tractor in Korea.
- (D) The import taxes on a tractor imported from Korea to Germanyis less than twenty percent of the cost of manufacturing the tractor in Germany.

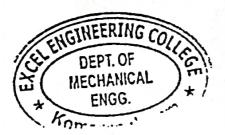
Ans. (D)

Numerical Ability

Q.5. In a survey, 3/16 of the people surveyed told that they preferred to use publictransport while commuting daily to office. 5/8 of the people surveyed told that they preferred to use their own vehicles. The remaining 75 respondents said that they had no clear preference. How many people preferred to use publictransport?

(A) 75 (B) 100 (C) 125 (D) 133

Ans. (A)





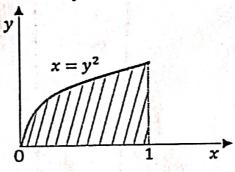
Q. 1 - Q. 25 carry one mark each.

Q.1 Consider the matrix

$$P = \begin{bmatrix} 1 & 1 & 0 \\ 0 & 1 & 1 \\ 0 & 0 & 1 \end{bmatrix}$$

The number of distinct eigenvalues of P is

- (Λ) 0
- (B) 1
- (C) 2
- (D) 3
- A parabola $x = y^2$ with $0 \le x \le 1$ is shown in the figure. The volume of the solid of rotation Q.2 obtained by rotating the shaded area by 360° around the x-axis is



(A) $\frac{\pi}{4}$

(B) $\frac{\pi}{2}$

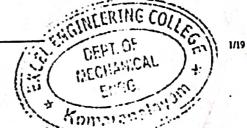
(C) π

- (D) 2π
- For the equation $\frac{dy}{dx} + 7x^2y = 0$, if y(0) = 3/7, then the value of y(1) is Q.3
 - (A) $\frac{7}{3}e^{-7/3}$

(C) $\frac{3}{7}e^{-7/3}$

- (B) $\frac{7}{3}e^{-3/7}$ (D) $\frac{3}{7}e^{-3/7}$
- The lengths of a large stock of titanium rods follow a normal distribution with a mean (μ) of 440 mm and a standard deviation (σ) of 1 mm. What is the percentage of rods whose Q.4 lengths lie between 438 mm and 441 mm?
- (B) 68.4%
- (C) 99.75%
- (D) 86.64%

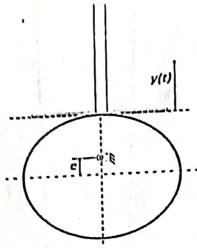
(A) 81.85%



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A flat-threed follower is driven using a circular eccentric cam rotating at a constant angular velocity ω . At time t = 0, the vertical position of the follower is y(0) = 0, and the system is in the configuration shown below. 1.19



The vertical position of the follower face, y(t) is given by

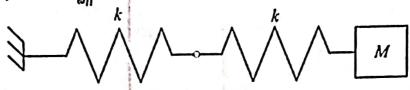
(A) e sin wt

(C)
$$o(1-\cos\omega t)$$
 (D) $e\sin 2\omega t$

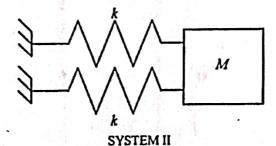




Q.6 The natural frequencies corresponding to the spring-mass systems I and II are ω_I and ω_{II} , respectively. The ratio $\frac{\omega_I}{\omega_{II}}$ is



SYSTEM I



(A) $\frac{1}{4}$

(B)
$$\frac{1}{2}$$

- Q.7 A spur gear with 20° full depth teeth is transmitting 20 kW at 200 rad/s. The pitch circle diameter of the gear is 100 mm. The magnitude of the force applied on the gear in the radial direction is
 - (A) 0.36 kN
- (B) 0.73 kN
- (C) 1.39 kN
- (D) 2.78 kN
- Q.8 During a non-flow thermodynamic process (1-2) executed by a perfect gas, the heat interaction is equal to the work interaction ($Q_{1-2} = W_{1-2}$) when the process is
 - (A) Isentropic

(B) Polytropic

(C) Isothermal

(D) Adiabatic





Go For a hydrodynamically and thermally fully developed laminar flow through a circular pipe of constant cross-section, the Nusselt number at constant wall heat flux (Nu₊) and that at constant wall temperature (Nu₊) are related as

(D)
$$Nu_q = (Nu_r)^T$$

Q.10 As per common design practice, the three types of hydraulic turbines, in descending order of flow rate, are

- (A) Kaplan, Francis, Pelton
- (B) Pelton, Francis, Kaplan
- (C) Francis, Kaplan, Pelton
- (D) Pelton, Kaplan, Francis

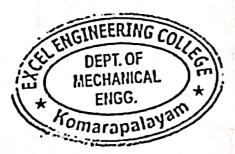
Q.11 A slender rod of length L, diameter d (L >> d) and thermal conductivity L is joined with another rod of identical dimensions, but of thermal conductivity L_2 , to form a composite cylindrical rod of length 2L. The heat transfer in radial direction and contact resistence are negligible. The effective thermal conductivity of the composite rod is

(A)
$$k_1 + k_2$$

(B)
$$\sqrt{k_1k_2}$$

$$(C) \frac{k_1 k_2}{k_1 + k_2}$$

(D)
$$\frac{2k_1k_2}{k_1+k_2}$$





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DEPARTMENT OF MECHANICAL ENGINEERING

ATTENDANCE SHEET FOR GATE COACHING CLASS

(06.11.2022 TO 10.11.2022)

S.No	Student Name	November	November	November	November	November
	Diagram (Millie	06-11-2022	07-11-2022	08-11-2022	09-11-2022	10-11-202
1	AAKASH DEEP SHAH	Α 🕴	Р	P	P	P
2	AKASH P	Pi	Р	Р	Р	P
3	AKHIL KUMAR	P)	P	P	Α	P
4	ALSON TONGBRAM	P	P	P	P	P
5	ANIL LAMSAL	P	P	P	P	P
6	ANKIT KUMAR	P	Р	P	P P	P
7	ARIUN P	P	P P	P A	P	P
8	ARUN R	P	P	P	P	P
9	ARUNKUMAR A	P	A	P	P	P
10	ARUN PANDIYAN T ASHUTOSH KUMAR YADAV	P	P	P	P	P
11	BALAGANESH. R	P	P	P	P	P
13	BALAJI. M	P	P	P	P	Α
14	BARATH M	P	P	P	P	P
15	BOOPATHI G	P	P	P	Р	P
16	BOOPATHI RAJA M	P	Α	P	P	P
17	DEVA K	P	P	P	A	P
18	DILDAS PB	P 3	P	P	P	P
19	DINAKAR S	P	P	P	P	P
20	DINAKARAN P	P	P	P	P	P
21	DINESH P	Р ;	A	P	P	P
22	DINESH KUMAR.S	Α .	P	P	P	P
23	GAURAB KUMAR DUBEY	P	P	P	P	P
24	GAUTAM KUMAR	P	P	P	A	P P
25	GOKUL KRISHNA	P -	P P	P P	P P	P
26	GOKUL S	P	P	P	P	P
27	GOPINATH V	P	P	P	P	P
28	GULSHAN KUMAR THAKUR	P	P	A	P	P
30	GUNASEKAR. S HARIPRASATH S	P	P	P	P	P
31	MD FASHIULLAH	P	P	P	P	P
32	MD REHAN RAZA	P	P	P	P	P
33	MEIPRAKASH.C	P	P	P	P	P
34	MITHUN KUMAR	P	P	P	P	P
35	MOHAMED ANWARKHAN.S	P	P	P	P	P
36	MOHAN.R	P	P	P	P	Α
37	MOHANA PRIYA.P	P	Α	P	P	P
38	MUHAMMED AMEEN	P	P	P	P	P
39	MUTHUVEL.G	P	P	P	P	P
40	NAVEENKUMAR.A	P	P	P	P	P
41	PRANAV KOLLARA	P	P	P	P	P
42	PRANAV PRASANNAN	P	P	P	P	P
43	PRATHEESH	Р.	P	P	P	P
44	PRAVEEN.M	P	P	P	P	P
45	PREMLAL BASKI	P	P P	P P	P P	P
46	RAHUL RAJESH.M	P	P	P	P	P
47	RAM KUMAR.S	P	P	P	P	P
48	RANJITH KUMAR.R	P	P	P	P	P
49	RITHIKKUMAR.B ROSHAN KUMAR SHARMA	P	P	P	P	P
50	RUBENDRA.R	P	P	P	P	P
	SAMIR AKHTAR	P	P	P	P	P
52	SANTHAKUMAR.K	P	P	P	P	P
54	SARABOJI.S	P	P	P	P	P
55	SASIKUMAR.S	P	P	P	P	P
56	SAURABH KUMAR DUBEY	Р	P	P	P	P
57	SESHADRI.T	P	P	P	P	P
58	SHIBTAIN RAZA	P	P	P	P	P
59	SOURAV.MJ	P .	P .	P .	P	P
60	DINESH M	P	P .	P	P	P
00	10			N' Nat	<u> </u>	<u> </u>

STAFF COORDINATOR

HODMEEN ATMENT MICHANICAL ENGINEERING, EXCELENGINEERING COLLEGE KOMARAPALAYAM - 637 303.

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2022 - 2023

Indirect Assessment of Program Outcomes & Program Specific Outcomes through Curricular and Extracurricular Activities

1	through Cu	ırricular and Extra	curricular Activities	
Student Name :	Bulgi M.		Date	: 6-11-2027
Batch :2	2019-2023		Year/Semester	: 14 7 1r
		and the state of t	of the fill all december.	
Type of Activity:	: Value added	course / Industrial	Visit / Implant Training /	Guest Lecturer/
		3 1 3 3	Project Contest / Sports	
Activities / Certifi	cate Program /	Diploma Course /had	kathon/Ideathon/GATE	Exam/ or any.
Organizing Institu	ute: Excl	Engineering (ollege (Astonom	nous)
Place: koma	veppolityon	~ .	A Commence of the Commence of	
Provide your level	of attainment fo	r the following questior	as by ✓ in the □ given,	
[3/2/1 Indicates Le	vel of Attainmer	nt; 3 – Very Much, 2 – N	Moderate, 1 – Some Extent)	A By
1. Does this	Activity/ Cours	e improve your Techi	nical Skill?	7
3 🔼	2 🗆	1		- 5/
2. Does this	Activity /Cours	e improve your Probl	em Solving Skill?	
3 🗆	2 🗹	1 🗆		14
3. Does this	training / Cour	se improve your prac	tical Exposure?	
2.47	2 □	1□		

4.	Have you lear	nt any m	nodern tools through th	this activity/ training?	
	Yes 🗌 No		if yes name of tool		
5.	Does this acti	vity /trai	ining useful to improve	ve your professional ethics?	
	3 ₺	2 🗆	1 🗖		
6.	Does this acti	vity /tra	ining useful to apply fo	for any modern research programs?	
	3 ⊡`	2 🗆	1 🗖		
7.	Have you got	any ide	as to improve our envir	vironmental & social needs?	
	3 🗆	2 🖾	1 🗖		
8.	Have you eventhrough this			ion skill & leadership skill has been improv	red
	3 ☑	2 🗆	1□		
9.	Does this Act	ivity / tr	aining useful to improv	ove learning attitude with zeal?	
	3 ☑	2 🗆	1		
10). Does this Act	tivity/tra	aining useful for you to	to work in multi-disciplinary team?	
	3 🗹	2 🗆	1□		
1	1. Does this Ac	tivity/tr	aining improve your m	mind to face any changes in your life?	
	3 🖺	2 🗆	1	and the way	
ny d	other Commen	ts:			
n	æl me	re pr	octical pro	ouledze rejuved.	C.S.
	(B)	+	1		. 3

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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2022 - 2023

Indirect Assessment of Program Outcomes & Program Specific Outcomes

through Cui	rricular and Ex	tracurricular Act	vities
Student Name: Akash P			Date: 6-11-2022
Batch : 2019 - 2023		Year/S	Semester: IV/7 ^{tL}
Type of Activity: Value added	course / Industr	ial Visit / Implant 1	raining / Guest Lecturer/
Seminar / Conference / Worksho	p / Design Conto	est/ Project Contest	/ Sports / Games / Social
Activities / Certificate Program / I	Diploma Course /	/hackathon/ Ideatho	n / GATE Exam/ or any.
Organizing Institute: Excel	Engineevin	g College	(Autonomous)
Place: Komarapalayo	h		¥.
Provide your level of attainment for	the following ques	tions by \(\sin \) in the \(\sin \)	given,
[3/2/1 Indicates Level of Attainment	;; 3 – Very Much, 2	– Moderate, 1 – Som	e Extent]
1. Does this Activity/ Course	improve your Te	echnical Skill?	
3 🗹 2 🗆	1 🗆		
2. Does this Activity /Course	improve your Pr	oblem Solving Skill?	
3 □ 2 ⊡	1 🗆		
3. Does this training / Course	e improve your p	ractical Exposure?	
3 🗹 2 🗆	1 🗆		

4. Have you learnt ar	ny modern tools through t	his activity/ training?	
Yes 🗆 No 🗹	if yes name of tool _		
5. Does this activity /	training useful to improve	e your professional ethics?	
3 🗹 2 🗆] 1		
6. Does this activity /	training useful to apply fo	or any modern research programs?	
3 🗆 2 🗓	10	1. 1.	
7. Have you got any i	deas to improve our envir	onmental & social needs?	
3 🗆 2 🗹	1 1 🗆		
8. Have you ever felt through this activit	that your communicatio y?	n skill & leadership skill has been	improve
3 🛮 2 🗀	10	1 longh	
9. Does this Activity /	training useful to improve	e learning attitude with zeal?	The state of
3 □ 2 ☑	1		
10. Does this Activity /t	raining useful for you to v	work in multi-disciplinary team?	
3 🖆 🗼 2 🗖	1 🗆		
11. Does this Activity /t	raining improve your min	d to face any changes in your life?	
3 🖸 2 🗖	1.10	might in the	
Any other Comments:		and of a law w	. 1
Need more p	ractical know	vledge required	- 3X
	100		
		1. 1.	

Signature

(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennal

Accredited by NBA (AERO, CSE, ECE & MECH), NAAC with "A*" and Recognised by UGC (2f &12B)

KOMARAPALAYAM - 637303

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2022 - 2023

		ogram Outcome	14/1527	-	Outcomes	
Student Name :	MOHAN	· R		Date	6 - 11	- 20
Batch : 20	19- 20 23		Yea	r/Semester	IN 7 th	
Type of Activity:	Value added co	ourse / Industrial	Visit / Implant	Training /	Guest Lectur	rer/
Seminar / Conferen	/ ice / Workshop	/ Design Contest/	Project Conte	st / Sports	/ Games / So	cial
Activities / Certifica					4	
Organizing Institute	E XCE	L ENGI	NEERIN	C1 C	SLLEG	15
	(AT	uto nom	(2noi			
Place: Komo	vapala	yam			A P	
				A Vive		7794
Provide your level of a	attainment for th	ne following question	s by 🗸 in the	□ given,		
[3/2/1 Indicates Level	of Attainment;	3 – Very Much, 2 – N	loderate, 1 – So	me Extent]		V
1. Does this Ac	tivity/ Course in	mprove your Techr	nical Skill?			
3 丘	2 🗆	1 🗔				
2. Does this Ac	tivity /Course in	mprove your Probl	em Solving Skil	l?	The second	
3 🗆	2 🗹					
3. Does this tra	nining / Course i	improve your pract	tical Exposure?			
3 (19)	2 🗆	1 🗆	N.	1.37	A. A.	

	4.	Have you	ı learnt any r	nodern tools through t	his activity/ train	ning?	
		Yes 🗆	No 🗹	if yes name of tool _	-		
	5.	1		ining useful to improve	your profession	nal ethics?	
		3 🗹	2 🗆	1 🗖			
	6.	Does this	activity /tra	ining useful to apply fo	r any modern re	search programs	s?
		3 ☑ ?	2 🗆	1 🗆			
	7.	Have you	got any idea	as to improve our envii	onmental & soci	al needs?	
		3 ☑	2 🗆	1 🗆			
	8.	through t	his activity?	at your communicatio	n skill & leaders	hip skill has bee	n improved
		3 🖸 🔨	2 🗆	1			
				ining useful to improv	e learning attitud	le with zeal?	
		3 ☑	2 🗆	1			UK E
	10.	Does this	Activity /trai	ning useful for you to	work in multi-dis	ciplinary team?	
			2 🗆				
1 1	11.	Does this	Activity /trai	ning improve your min	d to face any cha	anges in your life	2
		3 ☑ 1	2 🗆	(OF U.V.	h. Telakar	
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R. Mahau Signature



