Mechanical Engineering

L: Lecture, T: Tutorial, P: Practical, C: Credit

Scheme of Teaching and Examination, B. Tech. (Mechanical Engineering)

Academic Semester IV

S No	Subject Code	Board of Study	Subject	Periods per week			Scheme of Examination				Credits L + (T+P)/2
							PRE**		ESE*	Total Marks	
				L	T	P	Mid Sem.	TA			
01	MEE2208	Mechanical	Thermal Engineering	4	1	0	30	20	50	100	5
02	MEE2209	Mechanical	Engineering Mechanics & Strength of Materials	3	1	0	30	20	50	100	4
03	MEE2210	Mechanical	Manufacturing Processes	3	1	0	30	20	50	100	4
04	MAT2211	Mechanical	Advanced Engineering Mathematics-II	3	1	0	30	20	50	100	4
05	MEE2211	Mechanical	Thermal Engineering Lab	0	0	3	0	30	20	50	2
06	MEE2212	Mechanical	Engineering Mechanics & Strength of Materials Lab	0	0	3	0	30	20	50	2
07	MEE2213	Mechanical	Manufacturing Processes Lab	0	0	3	0	30	20	50	2
08	PFD2204	Humanities	Professional Development	2	0	0	0	15	10	25	2
TOTAL				**15**	**4**	**9**	**120**	**185**	**270**	**575**	**25**

*End Semester Examination
**Progress Review Examination

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Mechanical Engineering

(Detailed Syllabus of 4th Semester)

L: Lecture, T: Tutorial, P: Practical, C: Credit

SEMESTER IV

CODE	SUBJECT	L	T	P	C
MEE2208	Thermal Engineering	4	1	0	5
MEE2209	Engineering Mechanics & Strength of Materials	3	1	0	4
MEE2210	Manufacturing Processes	3	1	0	4
MAT2211	Advanced Engineering Mathematics-II	3	1	0	4
MEE2211	Thermal Engineering Lab	0	0	3	2
MEE2212	Engineering Mechanics & Strength of Materials Lab	0	0	3	2
MEE2213	Manufacturing Processes Lab	0	0	3	2
PFD2204	Professional Development	2	0	0	2
TOTAL		**15**	**4**	**9**	**25**

Assessment:

PRE			ESE
TA	**Mid semester**	**Total**	
20	30	50	50

PRE- Progressive Review Examination
TA- Teacher Assessment
ESE-End Semester Examination

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Semester: IV **Branch: Mechanical Engineering**
Subject: Thermal Engineering **Code: MEE2208**

Course Objectives:

1. To integrate the concepts, laws and methodologies from the first course in thermodynamics into analysis of cyclic processes.
2. To apply the thermodynamic concepts into various thermal application like Steam Turbines, condensers, Compressors.
3. To study the details of reciprocating and rotary type of compressors.
4. To understand the basic concepts of refrigeration systems.

UNIT-1: Steam Generators

Introduction: Components of Steam Power System, Carnot Cycle, Rankine Cycle, Modified Rankine Cycle, p-v , h-s and T-s diagram for Rankine and Modified Rankine Cycle, Molier's diagram, use of steam table, Problems on Steam turbine and Generators Steam Condensers: Introduction and classification of boilers, High pressure sub-critical and supercritical boilers, components, working and calculation of boiler efficiency.

UNIT- 2: Condensers and Cooling Towers

Steam Condensers: The function of condenser, Element of a water cooled condensing unit, types of condenser, advantages and disadvantages of various types of condenser, condenser vacuum, mass of circulating water required, source of air its effects and removal, vacuum efficiency, condenser efficiency.

Cooling ponds and cooling tower: Cooling pond, cooling towers, classification and working principles.

UNIT-3: Steam Nozzles and Turbines

Steam Nozzles: Flow of steam through nozzles, shapes of nozzles, effect of friction, critical pressure ratio, supersaturated flow.

Steam Turbine: Principle of operation, types of steam turbines, compounding of steam turbines, impulse turbine- velocity diagram, calculation of work, power and efficiency, condition for maximum efficiency, Reaction turbines – velocity diagram , degree of reaction, Parson turbine, work, power, efficiencies, blade height, condition for maximum blade efficiency for Parson turbine, reheat factor, governing of steam turbine- throttle, nozzle and bypass governing, regenerative feed heating, reheating of steam, binary vapor cycle.

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UNIT- 4: Air Compressor

Reciprocating Air Compressors: Classification of air compressors, working of single acting single cylinder reciprocating compressor, single acting reciprocating compressor without clearance and with clearance, single acting reciprocating compressor with clearance-equation of work, volumetric efficiency. Multistage reciprocating air compressors, advantage of multistage compression, Advantages and limitations of reciprocating compressors.

Rotary Compressors: Classifications of Rotary compressors, comparisons between the reciprocating and rotary compressors – Centrifugal and axial flow compressors, Construction and working, velocity diagrams, calculations of power and efficiencies

UNIT-5: Refrigeration and Air conditioning

Vapour compression refrigeration cycle- super heat, sub cooling Performance calculations working principle of vapor absorption system, Ammonia Water, Lithium bromide, water systems (Description only), Alternate refrigerants, Comparison between vapor compression and absorption systems, Air conditioning system: Types, Working Principles, Principles of Psychometric, Psychometric definitions.

Course Outcome:

Upon completion of this course, the students are able to:

1. Apply the concepts of the different steam generators
2. Apply the properties of pure substances for condenser analysis.
3. Know about different types of compressor and their analysis
4. Know about different types of Turbines and calculation of power and efficiencies.
5. Know the working of different types of nozzles.

Text Books:

1. Sarkar, B.K, "Thermal Engineering" Tata McGraw-Hill Publishers, 2007
2. Kothandaraman.C.P., Domkundwar.S,Domkundwar. A.V., "A course in thermal engineering", Dhanpat Rai &sons ,Fifth edition, 2002
3. Rajput. R. K., "Thermal Engineering" S.Chand Publishers , 2000
4. Arora.C.P, "Refrigeration and Air Conditioning ," Tata McGraw-Hill Publishers 1994
5. Ganesan V., "Internal Combustion Engines" , Third Edition, Tata Mcgraw-Hill 2007
6. Rudramoorthy, R, "Thermal Engineering",Tata McGraw-Hill, New Delhi,2003

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Reference Books:

1. Thermal Engineering By: S. K. Kulshrestha, Publisher: Vikas Publishing House Pvt. Ltd, New Delhi.

2. Thermal Engineering By: Mahesh Rathore, Publisher: Tata McGraw Hill, Delhi.

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Semester: IV **Branch: Mechanical Engineering**
Subject: Engineering Mechanics & Strength of Materials **Code: MEE2209**

Course Objectives:

1. To introduce the students to the principles and methods of statics and dynamics (mechanics), and to apply those fundamentals to solve the problems on statics and dynamics.
2. To determine the internal forces developed in structural members.
3. To determine the stresses and strains produced in the structural members and machine components and their deformation under various types of loads.
4. To understand analytical methods for determining the strength, stiffness and stability of various load carrying structural members and machine components.
5. To study the failure theories.

UNIT 1: Equilibrium of Coplanar Force System

Introduction to coplanar & non-coplanar force system, Forces and their components. Moment of the force about a point, couple, Resultant of coplanar force system - concurrent forces, parallel forces, non-concurrent non-parallel system of forces, Varignon's theorem, Meaning of equilibrium, free body diagrams, equilibrium of concurrent, parallel and non-concurrent non-parallel system of forces, Types of supports, determination of reactions at supports for various types of determinate beams.

UNIT 2: Properties of Sections

Concept of Centroid of plane areas. Centroid of areas by integration, Centroid of composite areas, Moment of inertia of plane areas, parallel axis theorem. Introduction to polar moment of inertia, radius of gyration of area, product of inertia and mass moment of inertia.

UNIT 3: Kinetics of Particles

Newton's laws of motion, D'Alembert's principle applied to bodies having rectilinear motion, Work energy and impulse momentum principle for particle.

Simple Stresses and Strain

Stress, strain, Hooke's law, Poisson's ratio, Modulus of Elasticity, Modulus of Rigidity, Bulk Modulus, Interrelation between elastic constants, Stress-strain diagrams for ductile & brittle materials, Various strengths of material- Yield

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strength, Ultimate tensile strength etc, Factor of Safety, Stresses and strains in determinate & indeterminate, homogeneous & composite bars under concentrated loads & self weight, Strain energy, pressure vessels.

UNIT 4: Shear Force Diagram and Bending Moment Diagram

Types of beams, Types of supports, Types of loads, shear force, Bending moment, Sign conventions, Methods for determination of S.F. and B.M. diagrams of beams subjected to various loads, Point of contraflexure, Relation between SF and BM.

Stresses in Beams & Deflection of Beams

Theory of pure bending, assumptions, flexural formula for straight beams, moment of resistance, bending stress distribution, section moduli for different sections, beams of uniform strength, Relation between slope deflection and radius of curvature, solution of beam deflection, problem by Macaulay's method, Direct integration method, Moment Area Method.

UNIT 5: Principal Stresses

Principal plane, Principal stress, Tangential and Normal stress, Maximum Shear stress, Major and Minor principal stresses derivation for different cases, Mohr's circle graphical method, Theories of Failure.

Torsion

Introduction to Torsion, derivation of shear strain, Torsion formula, stresses and deformations in circular and hollow shafts, Stepped shafts, shafts fixed at the both ends, Stresses in helical springs.

Course Outcome:

At the end of the course the students shall be able to:

1. Determine the resultant of coplanar and non co planar system of forces.
2. Solve the problems involving equilibrium of coplanar and non co planar system of forces.
3. Find the centroid and moment of inertia of plane areas.
4. Solve the problems on kinematics & kinetics of particles and rigid bodies respectively.
5. To apply principles of engineering mechanics, science and mathematics to derive equations governing the internal resistance forces in machine components subjected to different types of loading.

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6. To identify, formulate and solve for stresses and strains produced in basic components of mechanical engineering systems.

7. To analyze and interpret data obtained from the experiments related to strength of materials.

Text Books:

1. R. C. Hibbeler (2007); "Engineering Mechanics", Pearson Education Inc., ISBN 0132215098, 656 pages.

2. A. K. Tayal (2010), "Engineering Mechanics", Umesh Publication, ISBN 9380117388.

3. Kumar(1956), "Engineering Mechanics", Tata McGraw Hill, ISBN 0070681813, 673 pages.

4. H.J. Shah, S.B. Junnarkar, *"Mechanics of Structures Vol. I (Strength of Materials)"*, Charotar Publishing House, ed.31.

5. S. Ramamrutham and R. Narayanan, (2003), Strength of Materials, Dhanpat Rai Publications.

6. Timoshenko, S.P. and Young, D.H., (2000), Strength of Materials, East West Press Ltd.

7. Strength of Materials – R.K. Rajput – Dhanpat Rai & Sons.

Reference Books:

1. B. N. Thadani(1966); "Engineering Mechanics", Asia Publishing House, ISBN 0210269405, 655 pages.

2. Beer & Johnson (2013), "Engineering Mechanics", Tata McGraw Hill, ISBN 1259062919, 470 pages.

3. F. L. Singer (1975), "Engineering Mechanics", Harper & Raw Publication, ISBN 0060462329, 724 pages.

4. A. Nelson (2009), "Engineering Mechanics", Tata McGraw Hill, ISBN 0070146143.

5. Shames (2006), "Engineering Mechanics", Prentice Hall, India, ISBN 8177581236, 837 Pages.

6. J.M. Gere, S. Timoshenko, *"Mechanics of Materials"*, Stanley Thornes, ed.4.

7. D. Beer, M. Johnston, *"Mechanics of Materials"*, McGraw Hill Education (India), ed.6.

8. Rowland Richards, (2000), Principles of Solid Mechanics, CRC Press.

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OP Jindal Knowledge Park, Punjipathra, Raigarh - 496109, (C.G.)
t: +91 7762 304 000 www.opju.ac.in

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9. Strength of Materials – Dr. Sadhu Singh – Khanna publication.

10. Mechanics of Material-Gere and Timoshenko CBS Publications.

11. Mechanics of Solids – Beer & Johnson, Tata McGraw Hill Publications.

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Semester: IV **Branch: Mechanical Engineering**
Subject: Manufacturing Processes **Code: MEE2210**

Course Objectives:

1. To understand the principle of casting, and various casting methods.
2. To understand the basic principle of welding and distinguish between various welding types and their applications.
3. To understand the bulk deformation processes rolling, extrusion and forging, their applications and forces involved in these operations.
4. To understand and distinguish the various press working operations with respect to their applications, advantages and disadvantages.
5. To understand the various types of plastics and their processing techniques

UNIT–1: Casting: History, Advantages and limitations and applications of casting processes, Steps involved in making a casting, Casting terms, Sand mould making procedure, Moulding materials, Moulding sand composition, Sand casting,— Patterns and Pattern making – Types of patterns – Materials used for patterns, Pattern allowances, Elements of Gating, Gating ratio and Design of Gating systems

Solidification of casting – Concept – Solidification of pure metal and alloys, short & long freezing range alloys, Risers – Types, function and design, - Problems on Riser Design, Special casting processes: CO_2 moulding, Shell moulding, Centrifugal casting, Die casting, and Investment casting, Casting defects,

UNIT–2: Metal Forming Process: Advantages of forming operations, Nature of plastic deformation, hot working and cold working.

Rolling: Rolling fundamentals, Rolled Products, Theory of rolling, Types of Rolling mills and products, Forces in rolling and power requirements - Problems

UNIT – 3: Forging: Basic forging operations, Forging types: Smith, Drop, Press & Machine Forging, Forging hammers & Presses. Roll forging, Rotary forging, Forging defects.

Extrusion: Basic extrusion process and its characteristics. Hot extrusion and cold extrusion - Forward extrusion and backward extrusion, Impact extrusion, Hydrostatic extrusion

UNIT- 4: Sheet-Metal Operations: Classification, Springback in metals, Press operations: Blanking, Piercing and other operations, Clearance and Shear in press operations, Forces and power requirement in press operations-Problems, Bending: Nomenclature, Types of bending dies, Bend allowance and force-Problems Spinning, Stretch forming, Embossing and Coining.

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Plastics: Processing of Plastics: Injection moulding, Blow moulding, Compression moulding, and Transfer moulding.

UNIT–5: Metal Fabrication Process: Introduction to fabrication process, classification

Welding : Classification of welding processes, types of welded joints, Welding terms, Gas welding: Flame types, Arc welding: AC & DC, V-I Characteristics-Problems, Resistance Spot welding, Thermit-welding, Inert Gas welding: TIG & MIG welding, Friction welding, Explosive welding, Laser welding. Soldering & Brazing, Welding defects – causes and remedies.

Course Outcome:

Upon completion of this course the student will be able to:

1. Select appropriate processes for manufacturing industrial products.
2. Identify routings of the operations and equipment involved in changing raw materials into useable products.
3. Propose the integration of appropriate processes in a proper sequence to manufacture an economical product.
4. Recommend appropriate part manufacturing processes when provided a set of functional requirements and product development constraints.
5. Recommend cost-effective material options based upon net part shape, expected loading, operating environment, cost constraints, and life expectancy

Text books:

1. Manufacturing Technology / P.N. Rao/TMH
2. Manufacturing Engineering and Technology/Kalpakjian S/ Pearson Education

References/books:

1. Principles of Metal Castings / Rosenthal/Mc Graw Hill Professional
2. Welding Engineering and Technology / RS Parmar / Khanna Publishers
3. Production Technology /Sharma P C/Chand Publishers

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Semester: IV **Branch: Mechanical Engineering**
Subject: Advanced Engineering Mathematics-II **Code: MAT2211**

Course Objectives

1. To make students proficient in solving the system of linear algebraic equations.
2. To make students familiar with the process of approximating a tabulated function by a polynomial.
3. To make students learn the process of finding the derivatives and integrals of a tabulated function.
4. To make students familiar with the methods for the numerical solution of ordinary differential equations.
5. To make students learn the process of fitting standard curves to the tabulated data.

UNIT-1

Roots of Algebraic and Transcendental Equations, Bisection, Regula- Falsi and Newton-Raphson Methods, System of linear algebraic equations, Consistency and Existence of Solutions, Direct Methods: Gauss Elimination and Gauss-Jordan Methods, Iterative Methods: Jacobi's, Gauss-Siedal & Successive Over Relaxation Methods.

UNIT-2

Finite Differences and Interpolation, Interpolation with equally and unequally spaced points, Interpolation Formulae based on forward, backward, central and divided differences, Lagrange's Interpolation formula, Inverse Interpolation.

UNIT-3

Numerical Differentiation, Derivatives using Forward, Backward and Central Difference Formulae, Numerical Integration, Newton-Cote's quadrature formula, Trapezoidal rule, Simpson's rules, Weddle's rule.

UNIT- 4

Numerical Solution of Ordinary Differential Equations, Picard's Method, Taylor's Series Method, Euler's Method, Euler's Modified Method, Runge-Kutta Methods, Predictor-corrector Methods, Milne's Method, Adams-Bashforth Method.

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UNIT-5

Curve Fitting, Method of Least Squares, Fitting a Straight Line by Method of Least Squares, Fitting a Parabolic Curve by Method of Least Squares, Fitting the Nonlinear Curves by Method of Least Squares.

Course Outcome:

After completion of the course, students will be able to:

1. Numerically estimate the roots of algebraic and transcendental equations.
2. Solve the system of linear algebraic equations by direct and iterative methods.
3. Approximate the tabulated function by a polynomial.
4. Find the derivatives and integrals of a tabulated function.
5. Obtain the numerical solution of Ordinary Differential Equations.
6. Fit the linear and non linear curves to the tabulated data.

Recommended Text Books

1. Advanced Engineering Mathematics by Erwin Kreyszig (8th edition) – John Wiley & Sons.
2. Higher Engineering Mathematics by B.S. Grewal (38th edition)-Khanna Publishers.
3. Numerical Methods in Engineering and Science by Dr. B.S. Grewal, Khanna Publishers.
4. Numerical Methods for Scientific and Engineering Computation by M .K. Jain, S. R. K. Iyengar& R. K. Jain, Wiley Eastern Limited
5. Higher Engineering Mathematics by B. V. Rammana-Tata Mc Graw Hill.
6. Numerical Methods for Scientists and Engineers by K. Shankar Rao, Prentice Hall of India.
7. Numerical Methods, by S. S. Sastry, Prentice Hall Inc. India.

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Semester: IV **Branch: Mechanical Engineering**
Subject: Thermal Engineering Lab **Code: MEE2211**

Course Objectives:

1. To perform the experiments related to zeroth, first and second laws of thermodynamics and apply them to various thermal engineering applications, Steam turbines, and Compressors systems etc.
2. To built a strong base in the vertical of thermal engineering regarding its applications in the most important industrial fields.
3. To get a practical touch of important components utilized in thermal power plants.
4. To do the experiment related to Refrigeration systems.

List of Experiments:

1. Study of Steam Generators and Turbines
2. Performance and Energy Balance Test on a Steam Generator
3. Performance and Energy Balance Test on Steam Turbine
4. I.C. engine valve timing diagram
5. I.C. engine port timing diagram
6. Determination of Viscosity – Red Wood Viscometer
7. Determination of air/fuel ratio and volumetric efficiency on 4-stroke diesel engine
8. Study of convergent divergent nozzles
9. To determine the efficiency of the nozzle.
10. Performance test on reciprocating air compressors
11. Performance test rotary compressors
12. To study the refrigeration cycle, determination of COP.
13. To determine the COP and the tonnage capacity of the chilling plant.
14. To study about the different psychometric processes and systems.

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Course out come:

After completing this lab course the students will be able to:

1. Become familiar with the important components of thermal power plants.
2. Understand the valve timing diagram of the diesel engines.
3. Understand the port timing diagram of the petrol engines.
4. Conduct experiment for efficiency of single stage reciprocating and rotary compressors.
5. Evaluate the efficiencies by conducting performance test on two stage air compressor.
6. Evaluate the COP of vapor compression refrigeration system.
7. Demonstrate the working principles of steam generator & steam turbine.

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Semester: IV **Branch: Mechanical Engineering**
Subject: Engineering Mechanics and Strength of Materials Lab **Code: MEE2212**

Course Objectives:

1. Inculcate the ability to conduct experiments for better understanding of various principles.
2. To introduce the students to the experimental methods to verify the principles and methods of statics (mechanics).
3. Apply pertinent mathematical, physical and engineering mechanical principles to the system to solve and analyze the problem.
4. To develop an ability to communicate effectively – orally, graphically and in writing.
5. Interpretation of the results with advanced tool and technique.

List of Experiments:

1. To draw the variation of bending moment at a section in a simply supported beam under moving load.
2. Verify the triangle law of forces by using force board.
3. To verify the Varignon's principle of moments with the help of beam supported at its ends.
4. To verify the Law of Polygon of forces, by using force board.
5. To verify the principal of moments using Bell Crank Lever Apparatus.
6. To verify the Newton's Second Law of motion by Fletcher Trolley.
7. To determine the stiffness of a Helical spring and plot the graph between load and deflection.
8. To perform the Tensile Test of Mild Steel on U.T.M and To Draw Stress–Strain Curve.
9. To determine strength of wood on U.T.M (i) Along the Grain (ii) Across the Grain.
10. To determine Izod and Charpy Value of the given mild steel specimen by Impact Testing Machine.

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11. To determine modulus of rigidity for the material of open and closed Coiled Helical Spring Subjected to Axial Load by spring testing machine.

12. To study the Rockwell Hardness Testing Machine and to determine the Rockwell Hardness of the given material.

13. To study the Brinell Hardness Machine and to determine the Brinell hardness of the given material.

14. To study the Cupping Test Machine and to determine Erichsen value of Mild Steel sheet.

15. Solve minimum three numerical each of Engineering Mechanics and Strength of Material using MATLAB.

Course Outcomes:

Upon successful completion of this course, the student will be able to:

1. Perform a variety of laboratory experiments, including forces in equilibrium, friction forces in an incline plane, single and two-stage gear systems, inertia in rotational motion, and relative and constant velocity.
2. Conduct laboratory experiments and properly interpret the results.
3. Use laboratory equipment such as force table, spur gears, friction meters, shear force beam, weights, etc., to carry out the experiments.
4. Analyze and design structural members subjected to tension, compression, torsion, bending and combined stresses using the fundamental concepts of stress, strain and elastic behavior of materials using MATLAB software.
5. Utilize appropriate materials in design considering engineering properties, sustainability, cost and weight.

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Semester: IV **Branch: Mechanical Engineering**
Subject: Manufacturing processes lab **Code: MEE2213**

Course Objectives:

1. Develop a practical understanding of basic manufacturing processes and capabilities of each.
2. Set-up and conduct engineering experiments related to various manufacturing processes. Maintain lab notebooks in an engineering format.
3. Generation of formal lab reports, lab summaries and memos reflecting experiments performed.
4. Extend basic knowledge to solve manufacturing processes related problems.
5. Emphasize the problem solving process and application techniques.
6. Improve team working skills through group assignments.

List of Experiments:

I. Metal casting Shop

1. Pattern Design and making - 1 Exercise.
2. Preparation of moulding sand aggregate and simple moulds of greensand, complete with sprues, gates and risers - 1 Exercise.
3. Moulding Melting and Casting - 1 Exercise.

II. Welding Shop

4. ARC Welding- Butt Joint - 1 Exercises
5. Spot Welding - 1 Exercise
6. TIG Welding - 1 Exercise
7. Soldering and Brazing -2 Exercises

III. Mechanical Press Working

8. Blanking & Piercing operation and study of simple, compound and progressive press tool.

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9. Bending and other operations.

IV. Processing of Plastics

10. Injection Moulding
11. Blow Moulding

Course outcome:

1. To understand the basic manufacturing process of casting process and prepare pattern and moulds.
2. To understand the various tools and equipment to conduct arc welding process such as Manual arc welding and TIG welding.
3. To understand the principle of spot welding and perform spot welding of given plates.
4. To understand the various press working operations and various parts of hydraulic press.
5. To perform operations such as drawing, extrusion, bending operations on press.
6. To understand the various types of plastics and perform operations such as injection and blow molding.

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Semester: IV **Branch: Mechanical Engineering**
Subject: Professional development **Code: PFD2204**

Course Objectives:

The main objective of the course is to improve the students' spoken English and enable them to acquire the art of public speaking. The course is heavily practice oriented and has been designed to develop the skills of speech through presenting papers, giving seminars, participating in group discussions and appearing at interviews, etc.

Course Content:

UNIT- 1: Speaking- An overview
Speaking: an Overview, Listening Effectively, Non-Verbal Communication, Art of Persuasion.

UNIT- 2: Dynamics of Professional Speaking
Introduction, Combating Stage Fright, Describing Objects/Situations/People, Delivering Just-a-minute Sessions, Delivering Different Types of Speeches.

UNIT- 3: Professional Presentations
Planning of a Presentation, Designing of a Presentation, Preparing Power Point Slides for Presentations, Individual and Group Presentations, Making Presentation.

UNIT- 4: Group Discussions
Introduction, GD and Debate, Types of GD, Personality Traits to be evaluated, Dynamics of Group Behaviour, DOs and DON'Ts of GD.

UNIT -5: Job Interviews
Introduction, Process, Stages in Job Interviews, Types, Desirable Qualities, Preparation, Tips for Success.

Course Outcome:
Upon successful completion of the course, students will be able to:

1. Choose a topic and formulate the speech according to the purpose, audience, and time constraints.
2. Employ vocal variety in rate, pitch, and intensity as suitable to the message, occasion, and audience.
3. Use strategies and skills to manage communication anxiety.
4. Present speeches using an extemporaneous style with effective transitions that, establish connectedness, movement from one idea to another, and clarify relationships.

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5. Use knowledge of digital presentation tools to create and make effective presentations.
6. Participate in GD effectively.
7. To face interviews confidently.

Text Books:

1. Jeff Butterfield, Soft Skills for Everyone, CENAGE LEARNING, Delhi, 2014.
2. Sanjay Kumar and Pushp Lata, Communication Skills, New Delhi: Oxford University Press, 2011.
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Head
Mechanical Engineering
School of Engineering
O.P. Jindal University RAIGARH (C.G.)

Dean
School of Engineering
OP Jindal University RAIGARH