

CURRICULUM

FOR

6th SEMESTER

DIPLOMA IN

MECHANICAL

ENGINEERING

SUBJECT STUDY SCHEME (6TH Semester: Mechanical Engineering)

Course Code	Subjects	Time in Hours				Credits			
		Theory	Tutorial	Practical	Total	Theory	Tutorial	Practical	Total
MEPC601	Refrigeration & Air Conditioner	3	1	-	4	4	-	-	4
MEPC602	Industrial Engineering	4	-	-	4	4	-	-	4
MEPC603	CNC Machines	3	-	-	3	3	-	-	3
Open Elective-III • Basics of Management (MEOE601) • Soft Skills (MEOE602)		3	-	-	3	3	-	-	3
MEPC604	Refrigeration & Conditioning Lab	-	-	2	2	-	-	1	1
MEPC605	CNC Machines Lab	-	-	2	2	-	-	1	1
MEPR601	Major Project	-	-	10	10	-	-	5	5
MEPR602	Seminar	-	-	2	2	-	-	1	1
MEAU601	MOOC (Online Mode) (non-Creditable)	-	-	-	-	-	-	-	-
		13	1	16	30	14	-	8	22

PROGRAM: THREE YEARS DIPLOMA PROGRAM IN MECHANICAL ENGINEERING	
Course Code: MEPC 601	Course Title: REFRIGERATION & AIR CONDITIONING
Semester: 6TH	Credits: 4
Hours Per Week: 4 (L: 3, T: 1, P: 0)	

COURSE OBJECTIVE:

This course aims to identify refrigeration system components, refrigerants, and lubricants of a refrigeration system and to familiarize candidates with control strategies for refrigeration systems and the basics of air conditioning systems.

COURSE CONTENT

1. Introduction to Refrigeration:

- 1.1** Definition of Refrigeration;
- 1.2** Refrigerating effect-unit of refrigeration- Coefficient of performance;
- 1.3** Types of Refrigeration-Ice, dry ice, Steam jet, Throttling, Liquid nitrogen refrigeration; Carnot refrigeration Cycle; Air refrigeration- Bell - Coleman cycle, P V&T.S. diagram; Advantages and disadvantages in air refrigeration;
- 1.4** Simple problems.

2. Refrigeration systems:

- 2.1** Basic Components, a Flow diagram of working of the Vapour compression cycle; Representation of the vapor compression cycle on P-H, T-S & P-V Diagram; Expression for
- 2.2** Refrigerating effect, work done and power required; Types of Vapour Compression cycle; Effects of superheating and under cooling, its advantages and disadvantages;
- 2.3** Simple Vapour absorptions cycle and its flow diagram; Simple Electrolux system for domestic units;
- 2.4** Comparison of Vapour absorption and vapor compression system;
- 2.5** Simple problems on vapor compression cycle.

3. Refrigeration equipment:

- 3.1** Compressor - types of compressors: Hermetically sealed and semi-hermeticallysealed compressors;
- 3.2** Condensers - Air Cooled, water-cooled, natural, and forced draught cooling system; Advantages and disadvantages of air-cooled and water-cooled condensers;
- 3.3** Evaporators -natural, convection, and forced convection types.
- 3.4** Refrigerant flow controls: Capillary tube; Automatic Expansion valve; Thermo static expansion valve; High side and low side float valve; Solenoid valve; Evaporator pressure regulator.

4. Refrigerants and lubricants:

- 4.1** Introduction to refrigerants; Properties of good refrigerants; Classification of refrigerants by group number and commonly used refrigerants in practice;
- 4.2** Detection of refrigerant leakage;
- 4.3** Charging the system with refrigerant;
- 4.4** Lubricants used in refrigeration and their properties.
- 4.5** Application of refrigeration: Slow and quick freezing; Cold and Frozen storage; Dairy refrigeration; Ice making industry; Water coolers.

5. Air conditioning:

- 5.1** Introduction to Air conditioning; Factors Affecting air conditioning;
- 5.2** Psychometric chart and its use; Psychometric process-sensible heating and cooling, Humidifying and dehumidifying; Adiabatic saturation process;
- 5.3** Equipment used in the air conditioning cycle: Air conditioning units and plants.
- 5.4** Window air-Conditioning, Split type air-Conditioning, Central air-Conditioning.
- 5.5** Refrigeration and Air-conditioning tools: Tools used in refrigeration and Airconditioner installation; Installation procedure;
- 5.6** Faults in refrigeration and air conditioning system; Servicing procedure.

COURSE OUTCOME**After the Completion of the course, students will be able to:**

- Define refrigeration and types of Refrigeration cycles
- Explain the Vapour Compression and Vapour Absorption System working principles
- Identify the components required for the refrigeration system.
- Identify the controlling components for a refrigeration system.
- Explain the working principles of Air-conditioning.

RECOMMENDED BOOKS:

- 1.** Refrigeration and Air Conditioning by Domkundwar; Dhanpat Rai and Sons, Delhi.
- 2.** Refrigeration and Air Conditioning by CP Arora; Tata McGraw Hill, New Delhi.
- 3.** Refrigeration and Air Conditioning by R.S Khurmi and J.K. Gupta; S Chand and Company Limited, New Delhi.
- 4.** Refrigeration and Air Conditioning – Sadhu Singh, Khanna Book Publishing Co., New Delhi
- 5.** Refrigeration and Air Conditioning – A.S.Sarao & G.S. Gabi, 6th edition, Satya Prakashan publications, New Delhi
- 6.** Refrigeration and Air Conditioning – M.Zakria Baig, Premier/ Radiant Publishing House

UNIT-WISE TIME AND MARKS DISTRIBUTION

Unit No.	Time Allotted (Hrs)	Marks Allotted (%)
1	08	16
2	12	26
3	12	26
4	08	16
5	08	16
Total	48	100

PROGRAM: THREE YEARS DIPLOMA PROGRAM IN MECHANICAL ENGINEERING	
Course Code: MEPC 602	Course Title: INDUSTRIAL ENGG
Semester: 6TH	Credits: 4
Hours Per Week: 4 (L: 4, T: 0, P: 0)	

COURSE OBJECTIVE:

The objective of this course is to introduce the basic role of an industrial engineer, starting from the production planning to the costing, to have a systematic and comprehensive understanding of various aspects related to industrial engineering such as plant location and plant layout, production planning and control, scheduling, forecasting etc and its relevance in the industrial environment.

COURSE CONTENT**1. Production Planning and Control (PPC):**

- 1.1 Introduction to functions of PPC-
- 1.2 Forecasting – Definition and Methods; Routing – Definition and Procedure; Scheduling – Definition factors affecting scheduling- Gantt chart;
- 1.3 Dispatching – Definition and orders in dispatching.
- 1.4 Concept of Production and Productivity
- 1.5 Methods for Improving Productivity. Types of Production: Mass Production, Batch Production, and Job Order Production.
- 1.6 Plant Engineering: Factors for Selection of site of industry; Plant layout; Types; Process; Product, Fixed position, Combination layout;
- 1.5** Principles of Material handling equipment; Types of material handling equipment –AGV, forklift truck, cranes, conveyor, hoist (Introduction only)
- 1.6** Plant maintenance: Importance; Bathtub curve; Planned and Condition maintenance; Break down maintenance; Preventive maintenance, Predictive maintenance, and Scheduled maintenance

2. Work-Study, Method and Measurement

- 2.1 Work Study: Definition
- 2.2 Method Study: Definition; Objectives; Basic procedure for the conduct of Method study; Tools used; Operation process chart; Flow process chart; Two-handed process chart; Man, Machine chart; String diagram and flow diagram. Therbligs – Symbols, SIMO chart.
- 2.3 Work Measurement: Definition; Basic procedure in making a time study; Employees rating factor; Application of time allowances: Rest, Personal, Process, Special and Policy allowances; Calculation of standard time; Numerical Problems;

3. Quality Control

- 3.1 Quality Control: Definition; Objectives; Q.C. Process -Types of Inspection- First piece, Floor and Centralized Inspection; Advantages and Disadvantages;
- 3.2 Statistical Quality Control (SQC): Definition, Normal distribution. Measure of central tendency and dispersion- Mean, Median, Mode, Standard Deviation, Variance-numerical problems Variables; Attributes; Normal Curve; Uses of X-bar, R, p and c charts; Simple problems

4. Sampling, Estimation, Costing and Depreciation

- 4.1 Acceptance Sampling: Operating Characteristics curve- Terms in acceptance sampling, O.C. curve for Ideal plan and General plan; sampling plan- single, double, multiple sampling plan
- 4.2 Estimating: objectives-Principal Constituents of the project estimate
- 4.3 Costing: objectives - -elements of cost -material cost, labor cost, expenses -Direct Cost; Indirect Cost; overheads-types of Overhead; cost structure- Prime Cost; Factory Cost; Office Cost; Selling Price of a product; Numerical Problems;
- 4.4 Comparison Between Estimating and Costing
- 4.5 Depreciation: Definition; Causes; Methods: Straight line, Sinking fund, Diminishing Balance Method, Annuity method, Sum of the year's digit method; Numerical Problems.

COURSE OUTCOME**On Completion of the course, the student will be able to:**

- Describe the functions of PPC, different types of plant layouts and plant maintenance
- Apply method study and work measurement techniques in job standardization.
- Interpret the control charts used in quality control.
- Explain the risks involved in acceptance sampling, a product's selling price components, and asset depreciation.

RECOMMENDED BOOKS:

1. M. Mahajan, Statistical Quality Control. Dhanpat Rai Publishing Co Pvt Ltd.
2. O.P. Khanna, Industrial Engineering and Management, Revised Edition, New Delhi: Dhanpat Rai Publications (P) Ltd.
3. R. Keith Mobley, Maintenance Fundamentals. 2nd Edition. Elsevier.
4. Industrial Engineering And Production Management by Martand T Telsang, S. Chand
5. Industrial Engineering and Organization Management by S.K.sharma and Savita Sharma, Katson Publication

UNIT-WISE TIME AND MARKS DISTRIBUTION

Unit No.	Time Allotted (Hrs)	Marks Allotted (%)
1	16	25
2	16	25
3	16	25
4	16	25
Total	64	100

PROGRAM: THREE YEARS DIPLOMA PROGRAM IN MECHANICAL ENGINEERING	
Course Code: MEPC 603	Course Title: CNC Machines
Semester: 6TH	Credits: 3
Hours Per Week: 3 (L: 3, T: 0, P: 0)	

COURSE OBJECTIVE:

This course aims to comprehend candidates with various code programs for CNC Turning and Milling Centre and Illustrate common problems with tooling and fixtures in CNC programming.

COURSE CONTENT

1. Introduction

- 1.1 Introduction to N.C., CNC & DNC, their advantages, disadvantages, and applications,
- 1.2 Machine Control Unit, input devices, selection of components to be machined on CNC machines,
- 1.3 Problems with conventional N.C., New developments in N.C., Axis identification, PLC Control, and its components. Its advantages and disadvantages.

2. Construction and Tooling

- 2.1 Design features, specification Chart of CNC machines,
- 2.2 Use of slideways, balls, rollers and coatings, motor and leadscrew, swarf removal, safety and guarding devices,
- 2.3 Various cutting tools for CNC machines, an overview of tool holders, different pallet and automatic tool changer systems, and tool room management.

3. Part Programming

- 3.1 Part programming and basic concepts of part programming, N.C. words,
- 3.2 Part programming formats, simple programming for rational components, part programming using canned cycles, subroutines, and do loops,
- 3.3 Tool offsets, cutter radius compensation, and wear compensation.

4. System Devices

- 4.1 Actuators, Transducers and Sensors, Tachometer, LVDT, opto-interrupters,
- 4.2 Potentiometers for linear and angular position, encoder and decoder, axis drives, open loop, and closed loop systems.

5. Problems in CNC Machines

- 5.1 Common problems in mechanical, electrical, pneumatic, electronic, and P.C. components of N.C. machines,
- 5.2 Diagnostic study of common problems and remedies, use of on-time fault-finding diagnostic tools in CNC machines.

6. Automation and N.C. system

- 6.1 Role of computers in automation,
- 6.2 Emerging trends in automation, automatic assembly, manufacture of magnetic tape, manufacture of printed circuit boards, manufacture of integrated Circuits,
- 6.3 Overview of FMS, Group technology, CAD/CAM, and CIM.

7. Robot Technology

- 7.1 Introduction to robot technology,
- 7.2 Basic robot motion, robot applications

COURSE OUTCOME**After Completion of the course, the student will be able to:**

- Demonstrate the working of the CNC turning and milling machine
- Develop the part program using simulation software for Lathe and Milling
- Assess the part program, edit and execute in CNC turning and machining center

RECOMMENDED BOOKS:

1. CNC Machines – Programming and Applications by M Adithan and BS Pabla;
2. New Age International (P) Ltd., Delhi.
3. Computer Aided Manufacturing by Rao, Kundra, and Tiwari; Tata Mc Graw Hill, New Delhi.
4. CNC Machine by Bharaj; Satya Publications, New Delhi.
5. CAD/CAM/CIM – P. Radhakrishnan, S. Subramaniyan & V. Raju, New Age International Pvt.Ltd., New Delhi, 3rd Edition,
6. CNC Machines and Automation by Khushdeep Goyal, Katson Publication

UNIT-WISE TIME AND MARKS DISTRIBUTION

Unit No.	Time Allotted (Hrs)	Marks Allotted (%)
1	6	15
2	08	16
3	10	20
4	8	16
5	6	12
6	6	12
7	4	9
Total	48	100

PROGRAM: THREE YEARS DIPLOMA PROGRAM IN MECHANICAL ENGINEERING	
Course Code: MEOE601	Course Title: Basics of Management
Semester: 6TH	Credits: 3
Hours Per Week: 3 (L: 3, T: 0, P: 0)	

COURSE OBJECTIVE:

This course aims to explain the basic concepts, principles, and processes of management and how to use management thought to understand better how gender, race, class, culture, and other contextual differences play out among people in the workplace.

COURSE CONTENT**1. Principles of Management**

- 1.1 Introduction, definition, and importance of management.
- 1.2 Functions of Management Planning, Organizing, Staffing, Coordinating, Directing, Motivating and Controlling.
- 1.3 Concept and Structure of an organization Types of industrial organization a) Line organization b) Functional organization c) Line and Functional organization
- 1.4 Hierarchical Management Structure Top, middle, and lower-level management

2. Work Culture

- 2.1 Introduction and importance of Healthy Work Culture in an organization
- 2.2 Importance of attitude, values, and behavior Behavioral Science – Individual and group behavior
- 2.3 Professional ethics – Concept and need of Professional Ethics

3. Leadership and Motivation

- 3.1 Leadership a) Definition and Need of Leadership b) Qualities of a good leader
- 3.2 Motivation a) Definition and characteristics of motivation b) Factors affecting motivation c) Maslow's Need Hierarchy Theory of Motivation
- 3.3 Job Satisfaction

4. Legal Aspects of Business: Introduction and need

- 4.1 Labour Welfare Schemes a) Wage payment: Definition and types b) Incentives: Definition, need and types
- 4.2 Factory Act 1948
- 4.3 Minimum Wages Act 1948

5. Management Scope in Different Areas

- 5.1 Human Resource Development a) Introduction and objective b) Manpower Planning, recruitment and selection
- 5.2 Material and Store Management a) Introduction, functions, and objectives of material management b) Purchasing: definition and procedure c) Just in time (JIT)
- 5.4 Marketing and Sales a) Introduction, importance, and functions b) Difference between marketing and selling.
- 5.5 Financial Management – Introduction a) Concept of NPV, IRR, Cost-benefit analysis b) Elementary knowledge of Income Tax, Sale Tax, Excise duty, Custom duty, Provident Fund

6. Miscellaneous topics

- 6.1 Customer Relationship Management (CRM) a) Definition and Need b) Types of CRM
- 6.2 Total Quality Management (TQM) a) Inspection and Quality Control b) Concept of Quality Assurance c) TQM
- 6.3 Intellectual Property Rights (IPR) a) Introduction, definition, and its importance b) Infringements related to patents, copyright, trademark

COURSE OUTCOME**After the Completion of the course, students will be able to:**

- identify leadership roles in organizations.
- Explaining various theories, processes, and functions of management.
- Developing strategic planning and decision-making strategies in an organization.
- Developing an understanding of staffing, leadership, and motivation in an organization

RECOMMENDED BOOKS:

1. Principles of Management by Philip Kotler TEE Publication
2. Principles and Practice of Management by Shyamal Bannerjee: Oxford and IBM Publishing Co, New Delhi.
3. Financial Management by MY Khan and PK Jain, Tata McGraw Hill Publishing Co., 7, West Patel Nagar, New Delhi.
4. Modern Management Techniques by S.L. Goel: Deep and Deep Publications Pvt Limited, Rajouri Garden, New Delhi.
5. Management by James AF Stoner, R Edward Freeman, and Daniel R Gilbert Jr.: Prentice Hall of India Pvt Ltd, New Delhi. Essentials of Management by H Koontz, C O' Daniel, McGraw Hill Book Company, New Delhi.
6. Marketing Management by Philip Kotler, Prentice Hall of India, New Delhi

UNIT-WISE TIME AND MARKS DISTRIBUTION

Unit No.	Time Allotted (Hrs)	Marks Allotted (%)
1	09	18
2	07	14
3	09	18
4	07	14
5	08	18
6	08	18
Total	48	100

PROGRAM: THREE YEARS DIPLOMA PROGRAM IN MECHANICAL ENGINEERING	
Course Code: MEOE602	Course Title: Soft Skills
Semester: 6TH	Credits: 3
Hours Per Week: 3 (L: 3, T: 0, P: 0)	

COURSE OBJECTIVE:

The objectives of this course are to equip the students with competencies to manage themselves in organizations with a scientific outlook towards communication to develop career orientation through an understanding of Mock interviews and G.D.s. Also, to facilitate an insight into the functioning of individuals and groups.

COURSE CONTENT**1. Verbal and Non-Verbal Communication Skills:**

- 1.1 Introduction;
- 1.2 Listening to customers, team members, and managers; listening to electronic media; communicating with customers, team members, and managers; referencing for verbal communication.
- 1.3 Presentation Skills – Stages involved in an effective presentation, selection of topic, content, aids, engaging the audience,
- 1.4 Time management, Feedback, Mock Presentations.

2. CV, G.D., and P.I.:

- 2.1 Introduction; SOP; career objective; educational qualification; projects and assignments; skillset; achievements and interests;
- 2.2 Introduction to G.D.; Foundation skills in G.D.; Mock GD; Introduction to P.I.; foundation skills in P.I.; Mock PI

3. Interpersonal skills:

- 3.1 Definition: understanding, analyzing, and responding to people's needs, requirements, and capabilities at different levels.
- 3.2 Goal Setting Skills: Introduction; relevance of SWOT on goal setting; setting career goal; action plan and measures to achieve career goal; corporate role models; three to five years career roadmap; competitive work environment and realization of goals; anticipating challenges and utilizing opportunities.
- 3.3 Time Management Skills: Planning, Scheduling, Prioritizing, multitasking.

4. Corporate Etiquette:

- 4.1 Customer interaction etiquette; office etiquette; meeting etiquette; telephone etiquette;
- 4.2 presentation etiquette.

COURSE OUTCOME

After completing this course, the student will be able to:

- Participate in the campus selection process, focusing on aptitude and G.D.
- Prepare themselves for the campus Interviews.
- Develop professional behavior for entry into the professional world.
- Think logically and solve problems in professional life.

RECOMMENDED BOOKS:

1. Business Communication and Personality Development by Biswajit Das & Ipseeti Satpathy, The Encel Publications, 1st Edition
2. Managerial Communication – Strategies and Applications by Hynes; The McGraw Hill Company, 4th Edition
3. Effective Business Communication by Murphy; The McGraw Hill Company, 7th Edition
4. Winning at Interviews by Edger Thorpe, Showik Thorpe; Pearson Publications, 1st Edition
5. Professional Communication by Aruna Koneru; The McGraw Hill Company
6. Developing Soft Skills by Robert M. Sherfield, Rhonda J., Patricia J. Moodi; Cornerstone Publications

UNIT-WISE TIME AND MARKS DISTRIBUTION

Unit No.	Time Allotted (Hrs)	Marks Allotted (%)
1	16	25
2	16	25
3	16	25
4	16	25
Total	48	100

PROGRAM: THREE YEARS DIPLOMA PROGRAM IN MECHANICAL ENGINEERING	
Course Code: MEPC 604	Course Title: REFRIGERATION & AIR CONDITIONING Lab
Semester: 6 TH	Credits: 1
Hours Per Week: 2 (L: 0, T: 0, P: 2)	

COURSE OBJECTIVE:

The objective of this course is to make candidates familiar with different refrigeration test rigs and, conduct various performance tests, apply technical skills in dismantling, servicing, and assembling various refrigeration equipment like the air conditioner, water cooler, deep freezer, etc

LIST OF PRACTICALS

- Identify the parts of a Vapor Compression refrigeration system and perform general servicing and maintenance.
 - Study the parts and functions of the vapor compression refrigeration system.
 - Carry out general servicing like filter removal, air conditioner cleaning, etc.
- Apply technical skills in dismantling, servicing, and assembling various compressors, condensers, expansion devices, and evaporators, including evacuation, gas charging, etc.
 - Dismantle, service, and assembling of compressors.
 - Dismantle, service, and assembling of condensers.
 - Dismantle, service, and assembling of expansion devices.
 - Dismantle, service, and assembling of evaporators.
 - Filling of suitable refrigerant using a gas charging kit.
- Familiarize with different refrigeration test rigs and conduct various performance tests.
 - Conduct the performance test and find the COP of the vapor compression refrigeration test rig.
 - Conduct the performance test and find the COP of the cold storage.
 - Conduct the performance test and plot the different thermodynamic curves in the air conditioner test rig.
 - Conduct the test on an air conditioning unit and find out psychrometric properties.
- Apply technical skills in dismantling, servicing, and assembling refrigeration equipment like air conditioners, water coolers, deep freezers, etc.
 - Dismantle, service & assembling of air conditioner.
 - Dismantle, service & assembling of water cooler.
 - Dismantle, service & assembling of deep freezer.

PROGRAM: THREE YEARS DIPLOMA PROGRAM IN MECHANICAL ENGINEERING	
Course Code: MEPC 605	Course Title: CNC Lab
Semester: 6TH	Credits: 1
Hours Per Week: 2 (L: 0, T: 0, P: 2)	

COURSE OBJECTIVE:

This course will familiarize students with the CNC Turning and Milling Center and develop part programs.

LIST OF PRACTICALS

1. Study the constructional details of the CNC lathe.
2. Study the constructional details of the CNC milling machine.
3. Study the constructional details and working of: -
 - a) Automatic tool changer and tool setter
 - b) Multiple pallets
 - c) Swarf removal
 - d) Safety devices.
4. Develop a part program for following lathe operations and make the job on the CNC lathe and CNC turning center.
 - a) Plain turning and facing operations
 - b) Taper turning operations
 - c) Operation along contour using circular interpolation.
5. Develop a part program for the following milling operations and make the job on CNC milling.
 - a) Plain milling
 - b) Slot milling
 - c) Contouring
 - d) Pocket milling.
6. Preparation of work instructions for the machine operator.
7. Preparation of preventive maintenance schedule for CNC machine.
8. Demonstration through industrial visits for awareness of the actual working of FMS in production.
9. Use of software for turning operations on CNC turning center.
10. Use of software for milling operations on machine centers.
11. Operation of the robot.

PROGRAM: THREE YEARS DIPLOMA PROGRAM IN MECHANICAL ENGINEERING	
Course Code: MEPR601	Course Title: MAJOR PROJECT
Semester: 6TH	Credits: 5
Hours Per Week: 10 (L: 0, T: 0, P: 10)	

COURSE OBJECTIVE:

Project work aims at developing skills in the students whereby they apply the totality of knowledge and skills gained through the course to solve a particular problem or undertake a project. The students have various aptitudes and strengths. Project work, therefore, should match the strengths of students.

DESCRIPTION

For the above objective, students should be asked to identify the type of project work they would like to execute. It is also essential that the faculty of the respective departments have a brainstorming session to identify suitable project assignments. The project assignment can be an individual assignment or a group assignment. The students should identify the project at least two to three months. The project work identified in collaboration with the industry may be preferred.

Each teacher is expected to guide the project work of 5-6 students.

- Projects related to increasing productivity
- Projects related to quality assurance
- Projects related to estimation and economics of production
- Projects connected with the repair and maintenance of plant and equipment
- Projects related to the identification of raw material, thereby reducing the wastage
- Any other related problems of interest to the host industry

PROGRAM: THREE YEARS DIPLOMA PROGRAM IN MECHANICAL ENGINEERING	
Course Code: MEPR602	Course Title: Seminar
Semester: 6TH	Credits: 1
Hours Per Week: 2 (L: 0, T: 0, P: 2)	

COURSE OBJECTIVE:

Students will develop persuasive speech, present information in a compelling, well-structured, and logical sequence, respond respectfully to opposing ideas, show depth of knowledge of complex subjects, and develop their ability to synthesize, evaluate, and reflect on information.

DESCRIPTION:

To complete the above objective, students should be allowed to choose the topic of their choice for presentation

Final Draft Curriculum 6th Sem

PROGRAM: THREE YEARS DIPLOMA PROGRAM IN MECHANICAL ENGINEERING	
Course Code: MEAU601	Course Title: MOOC COURSE
Semester: 6TH	Credits: -0
Hours Per Week: - (L: 0, T: 0, P: 0)	

COURSE OBJECTIVE:

The objective of this course is to give students more online learning experiences, and it provides an affordable and flexible way to learn new skills, advance student's careers, and deliver quality educational experiences at scale

DESCRIPTION

Massive Open Online Courses (MOOCs) are free online courses for anyone to enroll. This course is a non-creditable but mandatory course added to the curriculum. Students are free to join MOOC courses from any online platform.

Final Draft Curriculum 6th Sem