

1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the University during the last five years (10)

Mapping of the Course

Department	Program	Semester	Name of the Course	Course Code	Employability	Entrepreneurship	Skill Development	Link to the relevant document
	H&M		Engineering Economics and Entrepreneurship	HSMC-603	3	3	2	<a href="http://academic.sliet.ac.in/study-scheme/">http://academic.sliet.ac.in/study-scheme/</a>
			English Communication & Soft Skills	HSMC-401	3	1	2	<a href="http://academic.sliet.ac.in/study-scheme/">http://academic.sliet.ac.in/study-scheme/</a>
			English Communication & Soft Skills Lab	HSMC-402	3	1	2	<a href="http://academic.sliet.ac.in/study-scheme/">http://academic.sliet.ac.in/study-scheme/</a>
			Technical Communication	HSMC-601	3	1	3	<a href="http://academic.sliet.ac.in/study-scheme/">http://academic.sliet.ac.in/study-scheme/</a>
			Technical Communication Lab	HSMC-602	3	1	3	<a href="http://academic.sliet.ac.in/study-scheme/">http://academic.sliet.ac.in/study-scheme/</a>
			Constitution of India	ACMH-821	1	1	2	<a href="http://ece.sliet.ac.in/pgece-scheme-and-syllabus/">http://ece.sliet.ac.in/pgece-scheme-and-syllabus/</a>
			Moral values and Professional ethics	MC-221	2	1	2	<a href="http://ct.sliet.ac.in/m-tech/">http://ct.sliet.ac.in/m-tech/</a>
			Entrepreneurship	HU-311	3	1	3	<a href="http://ece.sliet.ac.in/b-e-ece-scheme-and-syllabus/">http://ece.sliet.ac.in/b-e-ece-scheme-and-syllabus/</a>
			Moral values and Professional Ethics	MC-211	1	3	2	<a href="http://eis.sliet.ac.in/syllabi/">http://eis.sliet.ac.in/syllabi/</a>
			Communication Skills-II	HU-211	1	1	2	<a href="http://ece.sliet.ac.in/b-e-ece-scheme-and-syllabus/">http://ece.sliet.ac.in/b-e-ece-scheme-and-syllabus/</a>
			Communication Skills-II'	HU-121	1	1	2	<a href="http://ct.sliet.ac.in/m-tech/">http://ct.sliet.ac.in/m-tech/</a>
			Entrepreneurship	HU-321	3	3	3	<a href="http://mech.sliet.ac.in/b-e-scheme-and-syllabus/">http://mech.sliet.ac.in/b-e-scheme-and-syllabus/</a>
			Principles of Management and Industrial Psychology	HU-122	3	3	2	<a href="http://mech.sliet.ac.in/b-e-scheme-and-syllabus/">http://mech.sliet.ac.in/b-e-scheme-and-syllabus/</a>
			Moral values and Professional Ethics	MC-221	1	2	2	<a href="http://mech.sliet.ac.in/b-e-scheme-and-syllabus/">http://mech.sliet.ac.in/b-e-scheme-and-syllabus/</a>
			Communication Skills-I	HU-111	1	1	2	<a href="http://ct.sliet.ac.in/m-tech/">http://ct.sliet.ac.in/m-tech/</a>
			English & Research Paper Writing and Professional Communication	ACHM 811	3	2	3	<a href="http://ece.sliet.ac.in/pgece-scheme-and-syllabus/">http://ece.sliet.ac.in/pgece-scheme-and-syllabus/</a>

Subject Code: HSM- 603

Title of course: ENGINEERING ECONOMICS AND ENTREPRENEURSHIP

L	T	P	Credits	Weekly Load
3	0	0	3	3

**Course Outcomes:**

After successful completion of course, the students should be able to

CO 1: To evaluate the economic theories, cost concepts and pricing policies.

CO 2: Understand the market structure and integration concepts.

CO 3: Understand the measures of national Income, the functions of bank and concepts of globalization.

CO 4: Estimate the level of knowledge required to be an entrepreneur and to understand the role of entrepreneurship to the country economic growth.

CO 5: Know the role of creativity in entrepreneurial development and to develop business models.

**Pre-requisite:**

CO/PO Mapping												
(S/M/W indicates strength of correlation) S-Strong, M-Medium, W-Weak												
COs	Programme Outcomes (POs)											
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
CO :1					S							
CO :2						S						
CO :3									S			
CO :4				S								
CO :5								S				

Course Description	Lecture(s)
<b>UNIT-I</b>	
1. <b>Introduction</b>	

Engineers and Economics, Utility of its study, Managerial Economics, Nature and scope, basic terms and concept of economics like goods, kinds of goods.	02
<b>2. Theory of Demand and Supply</b>	
Meaning of Demand, Individual and Market demand schedule, Law of demand, shape of demand curve, Elasticity of demand, The meaning of Supply, Supply function, Law of supply- Explanation of law of supply.	08
<b>3. Environment Analysis</b>	
Concept of National income- GDP, GNP, Monetary policy, Fiscal Policy.	05
<b>4. Entrepreneurship-Enterprise</b>	
Conceptual issues, Entrepreneurship vs. Management, Concept of Social Entrepreneurship and Women Entrepreneurship, Roles and functions of engineer in relation to the enterprise and in relation to the economy.	05
<b>5. Business Excellence</b>	
Role of creativity and innovation and business research, Sources of business idea, TQM, Six Sigma	02
<b>UNIT- II</b>	
<b>6. The process of setting up a small business</b>	
Preliminary screening and aspects of the detailed study of the feasibility of the business idea , Preparation of Project Report and Report on Experiential Learning of successful and unsuccessful entrepreneurs..	04
<b>7. Communication skills</b>	
Introduction, process of communication, barriers to communication, Removal of barriers, channels of communication, Verbal and non-verbal communication.	03
<b>8. Issues in small business marketing.</b>	
The concept and application of product life cycle ,Advertising and publicity, sales and distribution management, National, state level and grass-root level financial and non-financial institutions in support of small business development, MSME Act	07
<b>9. Human Resource Management</b>	
Introduction, definition, types, tools of motivation, Theories of motivation- Alderfer's ERG theory, Herzberg's theory of motivation, Mc Clelland theory. Introduction , objectives, scope, functions. Factory Act 1948	06

### Suggested Readings

- Dutta A.K., Materials Management: Procedures, Text and cases, Prentice Hall of India Pvt. Ltd., New Delhi.
- Gopalakrishnan, P. and Sundareson, M., Materials Management: An Integrated Approach, Prentice Hall of India Pvt. Ltd., New Delhi.
- Varma, M.M., Essentials of Storekeeping and Purchasing, Sultan Chand and Sons, New Delhi.
- Shah N.M. An Integrated concept of Materials Management, Indian Institute of Materials Management, Baroda Branch, Baroda.
- Sharma S.C., Material Management and Materials Handling, Khanna Publishers, New Delhi.
- Arnold, Champman and Ramakrishnan, Introduction to Materials Management 5th ed., 2007 Pearson Education, Inc.
- Pooler Victor H. Purchasing and Supply Management, Creating the Vision, New York, Chapman & Hall, 1997.
- Moore, J.M., Plant layout and Design, Macmillan New York.

Title of the course : English Communication and Soft Skills  
Subject Code : HSMC - 401

L	T	P	Credits	Weekly Load
1	0	0	1	1

**COURSE OUTCOMES:**

After successful completion of course, the students should be able to

- CO1: Basic concepts of English skills and their use.  
CO2: Understand various formation of sentences and how it is applied in general life.  
CO3: Learn about the concepts of grammar for the formation of sentences.  
CO4: Understand the behavior of words and their impact in writing.  
CO5: Differentiate between tenses, voice command and phrases in sentence formation.

CO/PO Mapping: (Strong(3) / Medium(2) / Weak(1) indicates strength of correlation):

COs	Programme Outcomes (POs)												Programme Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
CO1	3	3	2	2	1	2	2	2	1	3	2	2	2	-	1
CO2	2	3	3	3	2	1	2	1	1	1	3	1	1	-	1
CO3	3	3	2	3	2	2	1	1	2	3	2	2	-	2	-
CO4	3	3	2	3	1	2	1	2	1	3	1	2	1	2	1
CO5	3	3	2	2	1	1	1	2	2	2	2	2	-	2	1
Avg.	2.8	3	2.2	2.6	1.4	1.6	1.4	1.6	1.4	2.4	2	1.8	1.33 333	2	1

**Theory**

Unit	Main Topics	Course outlines	Lecture(s)
Unit-1	Communication Techniques	Importance of Communication, One-way and Two-way Communication, Essentials of Good and effective Communication, Barriers to Communication, Techniques to Overcome Barriers	04
	Writing Skills	Précis- writing; Essay- writing, Official e-mail writing	04
Unit-2	Report Writing	Reports and their importance, Types of Routine Reports along with their formats- Annual Confidential Report, Progress Report, Inventory Report, Inspection Report, Lab Report, Structure of Reports; Bibliography & References	04
	Grammar & Vocabulary	Tenses, Change of Voice, Change of Narration, Words often confused, Correct use of Prepositions, Use of Idioms and Phrases	04

Total=16

**Recommended Books:**

1. Bhattacharya, Indrajit. An Approach to Communication Skills. Dhanpat Rai & Co.

2. Gibaldi, Joseph. MLA Handbook for Writers of Research Papers. MLA.
3. Sinclair, John. Collins Cobuild English Grammar. Collins.
4. Wren, P.C. & H. Martin. High School English Grammar & Composition. S. Chand & Company Ltd.
5. Sharma, R.C. & Krishna Mohan. Business Correspondence and Report Writing. Tata McGraw-Hill.

2. Gibaldi, Joseph. MLA Handbook for Writers of Research Papers. MLA.
3. Sinclair, John. Collins Cobuild English Grammar. Collins.
4. Wren, P.C. & H. Martin. High School English Grammar & Composition. S. Chand & Company Ltd.
5. Sharma, R.C. & Krishna Mohan. Business Correspondence and Report Writing. Tata McGraw-Hill.

**B. Tech. (Four Year Degree Course) Semester – I & II**

**Subject Code : HSMC-402**

**Title of the course : English Communication & Soft Skills Lab**

**(Common to all branches of Engineering and Technology)**

L	T	P	Credits	Weekly Load
0	0	2	1	2

**Course Outcomes:**

After successful completion of course, the students should be able to

CO1: Understand Concepts of Communication

CO2: Improve Communication Skills

CO3: Understand Concept of Grammar and their usage

CO:4 Participate effectively in group discussions, debates and job interviews

CO:5 Make oral presentations and be able to use multimedia

**List of Activities of Lab (10-14):**

1. Reflecting upon Self and Analyzing Environment.
2. Reading and Improving upon Vocabulary with the Help of Newspapers
3. Collecting and Using Library Resources.
4. Giving Individual Oral Presentations (Will Require Multiple Sessions)
5. English Conversation Skills and Speaking Practice
6. Group Discussions/Debates/Extempores
7. Summarizing a Given Short Story
8. Summarizing Newspaper Reports and Events
9. Role Plays/Mock Events
10. Grammar Exercises
11. Finalization of Team Project Work.
12. Collecting Materials for Project Work & Finalization of Project.
13. Presentation of Project.

**Common to All UG Engineering Courses, Semesters V / VI**

**Title of the course** : Technical Communication  
**Subject Code** : HSMC-601  
**Weekly load** : 2 **LTP** 2-0-0  
**Credits** : 2

**Course Outcomes:**

After successful completion of course, the students should be able to:

- 1) Understand importance of Technical communication
- 2) Draft different kinds of technical documents
- 3) Understand Basics of Grammar
- 4) Draft Applications for Jobs
- 5) Prepare effectively for job interviews

CO/PO Mapping : (Strong(S) / Medium(M) / Weak(W) indicates strength of correlation):												
Cos	Programme Outcomes (POs)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S										
CO2					S							
CO3	S		S									
CO4	S		S									
CO5	S			S								

Unit	Main Topics	Course Description	Lecture(s)
Unit-1	1. Technical Documents: Design and Development	<ul style="list-style-type: none"> <li>• Importance of Technical communication</li> <li>• Different Kinds of Technical Documents: Style and Appearance</li> <li>• Structure of Reports</li> </ul>	08
Unit 2	2. Technical Writing: Grammar and Editing	<ul style="list-style-type: none"> <li>• Basics of Grammar: Voice, Narration, Prepositions</li> <li>• Précis writing</li> <li>• Proof reading</li> </ul>	08
Unit-3	3. Business Communication	<ul style="list-style-type: none"> <li>• Business Letters-Placing, Cancelling orders, Complaints, Reply to Complaints</li> <li>• Notices, Agenda, Minutes of Meetings</li> <li>• Writing Memorandum</li> </ul>	08



Unit 4	4. Career Oriented Communication	<ul style="list-style-type: none"> <li>• Resume and Bio-data- Design and style; Applying for a job</li> <li>• Job Interviews- Purpose and process; how to prepare for an interview</li> </ul>	08
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Total=32

Recommended Books:

1. Beer, David F. and David McMurrey, Guide to writing as an Engineer, Wiley. New York, 2004
2. Mishra, Sunita & C. Muralikrishna. *Communication Skills for Engineers*. Pearson.
3. Bhattacharya, Indrajit. *An Approach to Communication Skills*. Dhanpat Rai & Co.
4. Sharma, R.C. & Krishna Mohan. *Business Correspondence and Report Writing*. Tata McGraw-Hill.

**Common to All UG Engineering Courses, Semesters V / VI**

**Title of the course : Technical Communication Lab**

**Subject Code : HSMC 602**

**Weekly load : 2 LTP 0-0-2**

**Credits : 1**

**Course Outcomes:**

After successful completion of course, the students should be able to:

CO1: Understand Concepts of Communication

CO2: Improve Communication Skills

CO3: Make oral presentations and be able to use multimedia

CO:4 Participate effectively in group discussions, debates and job interviews

CO:5 Adopt social and professional communication etiquettes

**List of Activities of Lab**

1. Reflecting upon Self and Analyzing Environment.
2. Reading and Improving upon Vocabulary with the Help of Newspapers
3. Collecting and Using Library Resources.
4. Giving Individual Oral Presentations (Will Require Multiple Sessions)
5. English Conversation Skills and Speaking Practice
6. Group Discussions/Debates/Extempores
7. Summarizing a Given Short Story
8. Summarizing Newspaper Reports and Events
9. Role Plays/Mock Events
10. Grammar Exercises
11. Finalization of Team Project Work.

**M.TECH (Audit course)**

**Subject Code: ACMH-821**

**Course Designed by: Dr.Pardeep Kumar Jain, Professor, M&H Deptt., SLIET, Longowal**

**Title of course: CONSTITUTION OF INDIA**

L	T	P	Credits	Weekly Load
3	0	0	3	3

**Course Outcomes:**

After successfully completing the course, students will be able to know about:

CO 1: Basic information about Indian constitution.

CO 2: Various organization of the governance.

CO 3: History & formation of Indian Constitution.

CO 4: Knowledge about Indian Judiciary.

CO 5: Knowledge About the constitutional body like election commission and its functioning.

CO/PO Mapping												
(S/M/W indicates strength of correlation ) S-Strong, M-Medium, W-Weak												
COs	Programme Outcomes ( POs)											
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
CO :1				S								
CO :2					S							
CO :3								S				
CO :4						S						
CO :5							S					

Course Description	Lectures(s)
<b>UNIT- I</b>	
<b>History of Making of the Indian Constitution: History, Drafting</b>	<b>16</b>

Committee,(Composition & Working). <b>Philosophy of the Indian Constitution:</b> Preamble, Salient Features. <b>Contours of Constitutional Rights &amp; Duties:</b> Fundamental Rights, Right to Equality, Right to Freedom, Right against Exploitation, Right to Freedom of Religion, Cultural and Educational Rights, Right to Constitutional Remedies, Directive Principles of State Policy, Fundamental Duties.	
<b>UNIT-II</b>	
<b>Organs of Governance:</b> Parliament, Composition, Qualifications and Disqualifications, Powers and Functions, Executive, President, Governor, Council of Ministers, Judiciary, Appointment and Transfer of Judges, Qualifications, Powers and Functions.	14
<b>UNIT- III</b>	
<b>Local Administration:</b> District's Administration head, Role and Importance, Municipalities: Introduction, Mayor and role of Elected Representative, CEO of Municipal Corporation. Panchayati raj: Introduction, PRI: Zila Panchayat. Elected officials and their roles, CEO Zila Panchayat: Position and role. Block level: Organizational Hierarchy (Different departments), Village level: Role of Elected and Appointed officials, Importance of grass root democracy.	12
<b>UNIT- IV</b>	
<b>Election Commission:</b> Election Commission: Role and Functioning, Chief Election Commissioner and Election Commissioners. State Election Commission: Role and Functioning, Institute and Bodies for the welfare of SC/ST/OBC and women.	14

**Suggested reading**

1. The Constitution of India, 1950 (Bare Act), Government Publication.
2. Dr. S. N. Busi, Dr. B. R. Ambedkar framing of Indian Constitution, 1st Edition, 2015.
3. M. P. Jain, Indian Constitution Law, 7th Edn., Lexis Nexis, 2014.
4. D.D. Basu, Introduction to the Constitution of India, Lexis Nexis, 2015.

**Title of the course** : Moral Values and Professional Ethics  
**Subject** : MC-211/221  
**Weekly Load** : 1  
**Credit** : 1

L	T	P	Credits	Weekly Load
1	0	0	0	1

**Course Outcomes:**

After successful completion of course, the students should be able to

- CO 1: Explain the major values and ethics.
- CO 2: Describe the Indian ethics.
- CO3: Describe and explain the contributions of an individual in value build up in daily life
- CO 4: To make students behave better in professional and personal life.
- CO5 : To make students aware about human values and environment protection.

CO/PO Mapping												
(S/M/W indicates strength of correlation ) S-Strong, M-Medium, W-Weak												
COs	Programme Outcomes ( POs)											
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
CO :1	S	S										
CO :2										M		
CO :3	S		S									
CO :4							S					
CO :5									S			

Course Description	Lectures(s)
<b>UNIT- I</b>	
<b>Moral Values and Self Development</b> Social values and individual attitudes, Work ethics, Moral and non moral valuation, Standards and principles, Value judgments, Importance of cultivation of values, Sense of duty, Devotion, Self reliance, Confidence, Concentration, Truthfulness, Cleanliness, Honesty, Humanity, Power of faith, National unity, Patriotism, Love for nature, Discipline.	7
<b>Personality and Behavior Development</b> Soul and scientific attitude, Positive thinking, Integrity and discipline, Punctuality, Love and kindness, Avoiding fault finding, Free from anger, Dignity of labor, Happiness vs. suffering , Aware of self destructive habits, Saving nature	

**UNIT-II**

<p><b>Character and Competence</b> Science vs. God, Holy books vs. blind faith, Self management and good health, Science of reincarnation, <b>Equality</b>, Nonviolence, Humility, Role of women, All religions and same message, Mind your mind, <b>Self control</b>, <b>Honesty</b>, <b>Studying effectively</b>. 04 <b>Competence in professional ethics</b> Ability to utilize the professional competence for augmenting universal human order, Ability to identify the scope and characteristics of people-friendly and <b>eco-friendly production systems</b>, Ability to <b>identify and develop appropriate technologies</b> and management patterns for above production systems.</p>	8
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TOTAL

15

**Suggested Readings:**

1. Govindarajan M., Natrajan S. Professional Ethics and Human Values , Prentice Hall of India, New Delhi . Entrepreneurial Development, Himalaya Publication House, New Delhi
2. Shukla, Tanu and Ydav Anupam etc. Human Values and Professional Ethics , Cengage Publications , New Delhi

<p>Character and Competence</p> <p>Science vs. God, Holy books vs. blind faith, Self management and good health, Science of reincarnation, Equality, Nonviolence, Humility, Role of women, All religions and same message, Mind your mind, Self control, Honesty, Studying effectively.</p> <p>04 Competence in professional ethics</p> <p>Ability to utilize the professional competence for augmenting universal human order, Ability to identify the scope and characteristics of people-friendly and eco-friendly production systems, Ability to identify and develop appropriate technologies and management patterns for above production systems.</p>	8
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15

**Suggested Readings**

1. Govindarajan M., Natrajan S. Professional Ethics and Human Values , Prentice Hall of India, New Delhi . Entrepreneurial Development, Himalaya Publication House, New Delhi
2. Shukla, Tanu and Ydav Anupam etc. Human Values and Professional Ethics , Cengage Publications , New Delhi

**Title of the course** : Entrepreneurship  
**Subject** : HU-311/321  
**Weekly Load** 2  
**Credit** 2

L	T	P	Credits	Weekly Load
2	0	0	2	2

**Course Outcomes:**

After successful completion of course, the students should be able to

**CO 1: Explain the major concepts in the functional areas of entrepreneurship.**

CO 2: Describe the Indian environment of business.

CO3: Describe and explain the contributions and problems of Indian entrepreneurs. CO 4: To make students better in managerial and general communication.

CO/PO Mapping (S/M/W indicates strength of correlation ) S-Strong, M-Medium, W-Weak												
COs	Programme Outcomes ( POs)											
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
CO :1	S	S										
CO :2										M		
CO :3	S		S									
CO :4							S					
CO :5									S			

Course Description	Lectures(s)
<b>UNIT- I</b>	
<b>Introduction</b> Entrepreneurship, meaning, concept, scope of entrepreneurship, Qualities of an entrepreneur, problems faced by Indian entrepreneur. SSI Role of banks & financial institutes in the development of small scale industries, Role of DIC in the development of MSMEs, Preparation of Project Report & feasibility analysis. Motivation & Industrial laws Meaning, Motivating & demotivating factors, Theories of Motivation: Abrahm Maslow's need hierarchy model, Theory X & Theory Y of motivation, Mc Cleland's theory, Introduction to Factories Act 1948 & Industrial Dispute Act 1947, Grievance Handling Procedure.	14
<b>UNIT- II</b>	

<p><b>Marketing and Communication</b>  Definition &amp; key elements of Marketing, PLC (Product Life Cycle), Marketing Mix, Communication :Definition, Process, Effective and ineffective Communication, Barriers to effective communication &amp; communication channels.</p> <p><b>Management</b>  Responsibilities of a Professional Manager, Basic functions of Management viz. planning, organizing, directing &amp; controlling.</p> <p><b>Leadership</b>  Definition, qualities of a successful leader, Leadership types, Managerial Grid.</p> <p><b>Business Excellence</b>  TQM, Six Sigma</p>	<b>15</b>
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TOTAL

29

Books:

Desai, Vasant. Entrepreneurial Development, Himalaya Publication House, New Delhi

<p>Entrepreneurial Development, Vasant Desai, Himalaya Publication House, New Delhi</p> <p>Marketing and Communication, [Author], Himalaya Publication House, New Delhi</p> <p>Management, [Author], Himalaya Publication House, New Delhi</p> <p>Leadership, [Author], Himalaya Publication House, New Delhi</p> <p>Business Excellence, [Author], Himalaya Publication House, New Delhi</p>	<b>15</b>
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Vasant Entrepreneurial Development, Himalaya Publication House, New Delhi



Title of the course : Moral Values and Professional Ethics  
 Subject : MC-211/221  
 Weekly Load : 1  
 Credit : 1

L	T	P	Credits	Weekly Load
1	0	0	0	1

**Course Outcomes:**

After successful completion of course, the students should be able to

CO 1: Explain the major values and ethics.

CO 2: Describe the Indian ethics.

CO3: Describe and explain the contributions of an individual in value build up in daily life

CO 4: To make students behave better in professional and personal life.

CO5 : To make students aware about human values and environment protection.

**CO/PO Mapping**

(S/M/W indicates strength of correlation ) S-Strong, M-Medium, W-Weak

COs	Programme Outcomes ( POs)											
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
CO :1	S	S										
CO :2										M		
CO :3	S		S									
CO :4							S					
CO :5									S			

Course Description	Lectures(s)
<b>UNIT- I</b>	
<b>Moral Values and Self Development</b> Social values and individual attitudes, Work ethics, Moral and non moral valuation, Standards and principles, Value judgments, Importance of cultivation of values, Sense of duty, Devotion, Self reliance, Confidence, Concentration, Truthfulness, Cleanliness, Honesty, Humanity, Power of faith, National unity, Patriotism, Love for nature, Discipline.  <b>Personality and Behavior Development</b> Soul and scientific attitude, Positive thinking, Integrity and discipline, Punctuality, Love and kindness, Avoiding fault finding, Free from anger, Dignity of labor, Happiness vs. suffering , Aware of self destructive habits, Saving nature	7

**UNIT-II**

**Character and Competence** Science vs. God, Holy books vs. blind faith, Self management and good health, Science of reincarnation, **Equality**, Nonviolence, Humility, Role of women, All religions and same message, Mind your mind, **Self control**, **Honesty**, **Studying effectively**. 04 **Competence in professional ethics** Ability to utilize the professional competence for augmenting universal human order, Ability to identify the scope and characteristics of people-friendly and **eco-friendly production systems**, Ability to **identify and develop appropriate technologies** and management patterns for above production systems.

8

TOTAL

15

**Suggested Readings:**

1. Govindarajan M., Natrajan S. Professional Ethics and Human Values , Prentice Hall of India, New Delhi . Entrepreneurial Development, Himalaya Publication House, New Delhi
2. Shukla, Tanu and Ydav Anupam etc. Human Values and Professional Ethics , Cengage Publications , New Delhi

Character and Competence	8
Science vs. God, Holy books vs. blind faith, Self management and good health, Science of reincarnation, Equality, Nonviolence, Humility, Role of women, All religions and same message, Mind your mind, Self control, Honesty, Studying effectively.	
04 Competence in professional ethics	
Ability to utilize the professional competence for augmenting universal human order, Ability to identify the scope and characteristics of people-friendly and eco-friendly production systems, Ability to identify and develop appropriate technologies and management patterns for above production systems.	

8

**Suggested Readings:**

1. Govindarajan M., Natrajan S. Professional Ethics and Human Values , Prentice Hall of India, New Delhi . Entrepreneurial Development, Himalaya Publication House, New Delhi
2. Shukla, Tanu and Ydav Anupam etc. Human Values and Professional Ethics , Cengage Publications , New Delhi

**ICD (Three Year Diploma Course) Semester – II/III**

**Subject Code : HU-121/HU-211**

**Title of the course : Communication Skills in English- II**

**(Common to all branches of Engineering and Technology)**

L	T	P	Credits	Weekly Load
1	0	2	2	3

**Course Outcomes:**

After successful completion of course, the students should be able to

CO1: draft business letters, letters of complaint, personal and official letters

CO2: write applications for jobs

CO3: write paragraphs

CO4: introduce yourself for interview and other personal and professional events, participate in debates

CO/PO Mapping : (Strong(S) / Medium(M) / Weak(W) indicates strength of correlation):												
Cos	Programme Outcomes (POs)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												
CO2												
CO3												
CO4												

Course Description	Lecture(s)
<b>Unit- I</b>	
<b>1. Business Communication</b>	
Letters of placing an order, Letters of cancelling an order, Letters of Complaint, Drafting an application for job along with a Resume	06
<b>Unit- II</b>	
<b>2. Composition Writing</b>	
Paragraph Writing, Basics of Grammar: Articles, Prepositions, One Word Substitutes, Words often Confused	05
<b>3. Correspondence Writing</b>	
Personal Letters, Official Letters, To District Authority/Newspaper regarding different problem	05
<b>Total=16</b>	

**Recommended Books:**

1. Sinclair, John. *Collins Cobuild English Grammar*. Collins.
2. Allan, W. Stannard. *Living English Structure*. Orient Longman.
3. Ghosh, R.N., K.W. Moody & S. R. Inthira. *A Course in Written English*. NCERT.
4. Bhatnagar, Nitin and Mamta Bhatnagar. *Communicative English for Engineers and Professionals*. Pearson.

**Lab Activities**

Lab Activities	Weightage
1. Drafting an application for job along with a Resume	06
2. Paragraph Writing, Basics of Grammar: Articles, Prepositions, One Word Substitutes, Words often Confused	05
3. Personal Letters, Official Letters, To District Authority/Newspaper regarding different problem	05
<b>Total=16</b>	

1. Introducing yourself
2. Observing and analyzing your environment/ surroundings
3. Paper Reading on a general topic
4. Declamation/ Debates
5. Learning Etiquettes in Social and Official Settings
6. Summarizing newspaper reports
7. Preparing a wall newspaper
8. English Conversation Skills
9. Dialogue writing and delivery for the given situation
10. Library visit & usage
11. Grammar exercises
12. Building of Vocabulary
13. Watching videos/ movies and writing, presenting their summaries

Introducing yourself	1	1	1
Observing and analyzing your environment/ surroundings	1	1	1
Paper Reading on a general topic	1	1	1
Declamation/ Debates	1	1	1
Learning Etiquettes in Social and Official Settings	1	1	1
Summarizing newspaper reports	1	1	1
Preparing a wall newspaper	1	1	1
English Conversation Skills	1	1	1
Dialogue writing and delivery for the given situation	1	1	1
Library visit & usage	1	1	1
Grammar exercises	1	1	1
Building of Vocabulary	1	1	1
Watching videos/ movies and writing, presenting their summaries	1	1	1

**ICD (Three Year Diploma Course) Semester – II/III**

**Subject Code : HU-121/HU-211**

**Title of the course : Communication Skills in English- II  
(Common to all branches of Engineering and Technology)**

L	T	P	Credits	Weekly Load
1	0	2	2	3

**Course Outcomes:**

After successful completion of course, the students should be able to

CO1: draft business letters, letters of complaint, personal and official letters

CO2: write applications for jobs

CO3: write paragraphs

CO4: introduce yourself for interview and other personal and professional events, participate in debates

CO/PO Mapping : (Strong(S) / Medium(M) / Weak(W) indicates strength of correlation):												
Cos	Programme Outcomes (POs)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1												
CO2												
CO3												
CO4												

Course Description	Lecture(s)
<b>Unit- I</b>	
<b>1. Business Communication</b>	
Letters of placing an order, Letters of cancelling an order, Letters of Complaint, Drafting an application for job along with a Resume	06
<b>Unit- II</b>	
<b>2. Composition Writing</b>	
Paragraph Writing, Basics of Grammar: Articles, Prepositions, One Word Substitutes, Words often Confused	05
<b>3. Correspondence Writing</b>	
Personal Letters, Official Letters, To District Authority/Newspaper regarding different problem	05
<b>Total=16</b>	

**Recommended Books:**

1. Sinclair, John. *Collins Cobuild English Grammar*. Collins.
2. Allan, W. Stannard. *Living English Structure*. Orient Longman.
3. Ghosh, R.N., K.W. Moody & S. R. Inthira. *A Course in Written English*. NCERT.
4. Bhatnagar, Nitin and Mamta Bhatnagar. *Communicative English for Engineers and Professionals*. Pearson.

**Lab Activities**

1. Introducing yourself
2. Observing and analyzing your environment/ surroundings
3. Paper Reading on a general topic
4. Declamation/ Debates
5. Learning Etiquettes in Social and Official Settings
6. Summarizing newspaper reports
7. Preparing a wall newspaper
8. English Conversation Skills
9. Dialogue writing and delivery for the given situation
10. Library visit & usage
11. Grammar exercises
12. Building of Vocabulary
13. Watching videos/ movies and writing, presenting their summaries

Introducing yourself			
Observing and analyzing your environment/ surroundings			
Paper Reading on a general topic			
Declamation/ Debates			
Learning Etiquettes in Social and Official Settings			
Summarizing newspaper reports			
Preparing a wall newspaper			
English Conversation Skills			
Dialogue writing and delivery for the given situation			
Library visit & usage			
Grammar exercises			
Building of Vocabulary			
Watching videos/ movies and writing, presenting their summaries			

**Title of the course** : Entrepreneurship  
**Subject** : HU-311/321  
**Weekly Load** 2  
**Credit** 2

L	T	P	Credits	Weekly Load
2	0	0	2	2

**Course Outcomes:**

After successful completion of course, the students should be able to

**CO 1: Explain the major concepts in the functional areas of entrepreneurship.**

**CO 2:** Describe the Indian environment of business.

**CO3:** Describe and explain the contributions and problems of Indian

entrepreneurs.**CO 4:** To make students better in managerial and general communication.

CO/PO Mapping (S/M/W indicates strength of correlation ) S-Strong, M-Medium, W-Weak												
COs	Programme Outcomes ( POs)											
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
CO :1	S	S										
CO :2										M		
CO :3	S		S									
CO :4							S					
CO :5									S			

Course Description	Lectures(s)
<b>UNIT- I</b>	
<b>Introduction</b> Entrepreneurship, meaning, concept, scope of entrepreneurship, Qualities of an entrepreneur, problems faced by Indian entrepreneur.SSI Role of banks & financial institutes in the development of small scale industries, Role of DIC in the development of MSMEs, Preparation of Project Report & feasibility analysis. Motivation & Industrial laws Meaning, Motivating & demotivating factors, Theories of Motivation: Abrahm Maslow's need hierarchy model, Theory X & Theory Y of motivation, Mc Cleland's theory, Introduction to Factories Act 1948 & Industrial Dispute Act 1947, Grievance Handling Procedure.	14
<b>UNIT- II</b>	

<p><b>Marketing and Communication</b>  Definition &amp; key elements of Marketing, PLC (Product Life Cycle), Marketing Mix, Communication :Definition, Process, Effective and ineffective Communication, Barriers to effective communication &amp; communication channels,  <b>Management</b>  Responsibilities of a Professional Manager, Basic functions of Management viz. planning, organizing, directing &amp; controlling.  <b>Leadership</b>  Definition, qualities of a successful leader, Leadership types, Managerial Grid.  <b>Business Excellence</b>  TQM, Six Sigma</p>	<b>15</b>
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TOTAL

29

**Books:**

Desai, Vasant. Entrepreneurial Development, Himalaya Publication House, New Delhi

<p>Entrepreneurial Development</p>	<p>Vasant Desai</p>	<p>Himalaya Publication House, New Delhi</p>	<p>15</p>
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Desai, Vasant. Entrepreneurial Development, Himalaya Publication House, New Delhi



**Title of the course : Principles of Management and Industrial Psychology**  
**Subject : HU-122**  
 Weekly Load 3  
 Credit 3

L	T	P	Credits	Weekly Load
3	0	0	3	3

**Course Outcomes:**

After successful completion of course, the students should be able to

- CO 1: To make clear the Difference between psychology and industrial psychology.
- CO 2: To Demonstrate knowledge and critical understanding of a range of theories and perspectives in management and the analysis of human behavior and society
- CO 3. Demonstrate a good knowledge and critical understanding of a range of influences on psychological functioning, and how they are conceptualized across biological, cognitive, developmental, and social psychology and individual differences
- CO 4. To make students learn to examine a range of processes that underpin social change
- CO 5. To make students learn all the management functions

CO/PO Mapping (S/M/W indicates strength of correlation ) S-Strong, M-Medium, W-Weak												
COs	Programme Outcomes ( POs)											
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
CO :1	S	S										
CO :2										M		
CO :3	S		S									
CO :4							S					
CO :5									S			

Course	Lectures(s)
Description UNIT- I Introduction Introduction to Management, It's Need, Importance & Purpose, Evolution of Management thoughts, Different Schools/ approaches to Management: Behavioural Quantitative, Systems, Contingency Approach. Management Planning Management Planning, Importance of Planning, Types of Planning, Strategies, Policies, Procedure, Rules etc. in the context of Planning. Organizing Organizing: Organizing as a Management process, Principles of Organization, Different Structures of organizations such as line, Line & Staff, Functional	21
Matrix or project Organization Characteristics, Introduction to Organizational climate, Decision Making Group Decision Making, Staffing: What is Staffing? Steps involved in Staffing, Recruitment, Staffing, Performance Appraisal Development	21
UNIT- II Leading Leadership, Characteristics, Motivation, Managing Conflicts, Leadership Trails And Styles, Different Approaches To Leadership. Controlling: Controlling Management function, Direct and Indirect Control, Elements of Control, Prerequisites for effective Control. Industrial Psychology Introduction to Industrial Psychology - Definitions & Scope, Major influence on worker performance. Industrial Psychology- Scientific management and human relations. Motivation and Job satisfaction, stress management Organizational cuA group dynamics. Work Environment & Engineering Psychology reduction, fatigue, Boredom, accidents and safety, Job Analysis Reliability and Validity of recruitment tests, Performance Management, training and	21
<b>Development</b>	
<b>TOTAL</b>	42
Suggested Readings: 1. Miner J.B.. Industrial and Organizational psychology McGraw Hill, New Delhi 2. Blun & Naylor. Industrial Psychology: Its Theoretical and Social Foundation, CBS Publication	

**Title of the course** : Moral Values and Professional Ethics  
**Subject** : MC-211/221  
**Weekly Load** : 1  
**Credit** : 1

L	T	P	Credits	Weekly Load
1	0	0	0	1

**Course Outcomes:**

After successful completion of course, the students should be able to

CO 1: Explain the major values and ethics.

CO 2: Describe the Indian ethics.

CO3: Describe and explain the contributions of an individual in value build up in daily life

CO 4: To make students behave better in professional and personal life.

CO5 : To make students aware about human values and environment protection.

CO/PO Mapping

(S/M/W indicates strength of correlation ) S-Strong, M-Medium, W-Weak

COs	Programme Outcomes ( POs)											
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
CO :1	S	S										
CO :2										M		
CO :3	S		S									
CO :4							S					
CO :5									S			

Course Description	Lectures(s)
<b>UNIT- I</b> <b>Moral Values and Self Development</b> Social values and individual attitudes, Work ethics, Moral and non moral valuation, Standards and principles, Value judgments. Importance of cultivation of values, Sense of duty, Devotion, Self reliance, Confidence, Concentration, Truthfulness, Cleanliness, Honesty, Humanity, Power of faith, National unity, Patriotism, Love for nature, Discipline. <b>Personality and Behavior Development</b> Soul and scientific attitude, Positive thinking, Integrity and discipline, Punctuality, Love and kindness, Avoiding fault finding, Free from anger, Dignity of labor, Happiness vs. suffering , Aware of self destructive habits, Saving nature	7

**UNIT-II**

**Character and Competence** Science vs. God, Holy books vs. blind faith, Self management and good health, Science of reincarnation, **Equality**, Nonviolence, Humility, Role of women, All religions and same message, Mind your mind, **Self control**, **Honesty**, **Studying effectively**. 04 **Competence in professional ethics** Ability to utilize the professional competence for augmenting universal human order, Ability to identify the scope and characteristics of people-friendly and **eco-friendly production systems**, Ability to **identify and develop appropriate technologies** and management patterns for above production systems.

8

TOTAL

15

**Suggested Readings:**

1. Govindarajan M., Natrajan S. Professional Ethics and Human Values , Prentice Hall of India, New Delhi . Entrepreneurial Development, Himalaya Publication House, New Delhi
2. Shukla, Tanu and Ydav Anupam etc. Human Values and Professional Ethics , Cengage Publications , New Delhi

Character and Competence	Science vs. God, Holy books vs. blind faith, Self management and good health, Science of reincarnation, Equality, Nonviolence, Humility, Role of women, All religions and same message, Mind your mind, Self control, Honesty, Studying effectively.	04 Competence in professional ethics	Ability to utilize the professional competence for augmenting universal human order, Ability to identify the scope and characteristics of people-friendly and eco-friendly production systems, Ability to identify and develop appropriate technologies and management patterns for above production systems.	8
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**Suggested Readings:**

1. Govindarajan M., Natrajan S. Professional Ethics and Human Values , Prentice Hall of India, New Delhi . Entrepreneurial Development, Himalaya Publication House, New Delhi
2. Shukla, Tanu and Ydav Anupam etc. Human Values and Professional Ethics , Cengage Publications , New Delhi

**ICD (Three Year Diploma Course) Semester-1**

**Subject Code: HU-111**

**Title of the Course: Communication Skills in English-1  
(Common to all branches of Engineering and Technology)**

L	T	P	Credits	Weekly Load
2	0	0	2	2

**Course Outcomes:**

After successful completion of course, the students should be able to

CO1: understand and use basic principles of grammar

CO2: read and write correct English

CO3: summarize and comprehend a given text

CO4: analyze the selected chapters from the given text

CO/PO Mapping: (Strong(S) / Medium(M) / Weak(W) indicates strength of correlation):

COs	Programme Outcomes (POs)											
	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO :1												
CO :2												
CO :3												
CO :4												
CO :5												

Unit	Course Description	Lecture(s)
Unit- I	<b>Prescribed Text (Selected readings only): Chapters 1,2,8,9,11 and 15</b>  Intensive study of the Chapters: <b>Vocabulary-Understanding / meanings of new words, Comprehension- Responding to the / questions from the text, Summarizing the themes/ central ideas of the text, textual Composition Exercises</b>	16
Unit- II	<b>Application of Grammar(textual)</b> <b>Use of Tenses, Do as directed (Active/ Passive Voice, Affirmative/ Negative/ Assertive Sentences, Question Tag, Use of Articles, Prepositions, Conjunctions), Use of Synonyms and Antonyms, One Word Substitutes</b>	16

**Recommended Books:**

Menon, K.P.K. *Contemporary English Prose*. Oxford University Press.

**M. Tech/MSc (Two Year PG Course) Semester – I (Audit course)**

**Open Elective**

**Subject Code : ACMH-811**

**Title of the course : English for Research Paper Writing and Professional Communication**

L	T	P	Credits	Weekly Load
3	0	0	3	3

**Course Outcomes:**

After successful completion of course, the students should be able to

**CO1: Understand the Basic Concepts of English Grammar and Sentence Structure**

**CO2: Identify and remove Common Errors of Grammar in Writing**

**CO3: Improve Vocabulary and Writing skills for Paragraph/Essay Writing**

**CO4: Read and Listen to the Comprehension make Precis of given paragraphs**

**CO5: Listen and Speak English Correctly**

CO/PO Mapping : (Strong(S) / Medium(M) / Weak(W) indicates strength of correlation):												
Cos	Programme Outcomes (POs)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1		S										
CO2		S										
CO3	S	S										
CO4						S						
CO5	S	S										

Course Description	Lecture(s)
<b>Unit – I</b>	
<b>INTERPERSONAL SKILLS</b>	
Professional Writing and Speaking Skills to Inform, Propose, and Persuade, Preparing a Case Study about Communication in an Industry	12
<b>Unit – II</b>	
Planning and Preparation, Removing Redundancy, avoiding Ambiguity and Vagueness, Paraphrasing and Plagiarism	12
<b>Unit – III</b>	
Identifying an Issue, Conduct Research, Organize Research Findings, and Present an Argument	12
<b>Unit – IV</b>	
Formal and Informal Communication Styles, Developing PowerPoint Slides,	12

Memos, Letters, and Reports	
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Total=48

**Suggested Readings:**

1. Adman Wallwork, English for Writing Research Papers, Springer New York Dordrecht Heidelberg London, 2011.
2. Day R (2006) , How to Write and Publish a Scientific Paper, Cambridge University Press.
3. Goldbort R ( 2006), Writing for Science, yale University Press (available on Google Books)
4. MLA Handbook, 2010