



Estd 2009

Shri Balasaheb Mane Shikshan Prasarak Mandal's
ASHOKRAO MANE GROUP OF INSTITUTIONS

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Approved by : AICTE, New Delhi No. F.No. MS (NewInt) 2009 / 08, Higher & Technical Education Department, Govt. of Maharashtra, Directorate of Technical Education, Mumbai. **Affiliated to :** Dr. Babasaheb Ambedkar Technological University, Lonere - Raigad. (B.Tech. & M.Tech. Programs), Shivaji University, Kolhapur. (MBA Program).

Accredited by NAAC

Founder President
Late Shri. Ashokrao Mane

Director
Dr. A. V. Deshmukh, M.E., Ph.D.

President
Hon. Shri. Vijaysinh A. Mane

Ref. No. :

Date :

Summary Sheet

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.

Sr. No	Content		Link
	Name of Department	Subjects relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability	
1	Civil Engineering	1. Basic Human Rights	http://www.amgoi.org/uploads/academics/Final%20AQR%202023%20%2024/Summary%201-3-1%20Attachment.pdf
		2. Business Communication & Presentaion Skills	
		3. Indian Constitution	
2	Computer Science & Engineering	1. Basic Human Rights	
		2. Universal Human Values	
		3. Business Communication	
3	Electrical Engineering	1. Basic Human Rights	
4	Electronics & Telecommunication Engineering	1. Basic Human Rights	
		2. Universal Human Values	
5	Mechanical Engineering	1. Basic Human Right	
		2. Human Resource Management	
		3. Wind Energy	
6	Master of Business Administration	1. Soft Skill development	
		2. Personality development	

Semester- VI

Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
PCC 14	BTCVC601	Design of RC Structures	3	1	-	20	20	60	100	4
PCC 15	BTCVC602	Foundation Engineering	3	1	-	20	20	60	100	4
PCC 16	BTCVC603	Transportation Engineering	3	-	-	20	20	60	100	3
PEC 2	BTCVPE604	A. Industrial Waste Treatment B. Managerial Techniques C. Open Channel Flow D. Water Power Engineering E. Ground Improvement Techniques F. Structural Audit G. Intelligent Transportation Systems H. Plastic Analysis of Structures I. Numerical Methods in Civil Engg. J. Engineering Management	3	-	-	20	20	60	100	3
		A. Environmental Impact Assessment B. Basic Human Rights C. Business Communication and Presentation Skills								
OEC 1	BTCVOE605	D. Composite Materials E. Experimental Stress Analysis F. Python Programming G. Operation Research H. Applications of Remote Sensing and Geographic Information Systems I. Civionics: Instrumentation & Sensor Technologies for Civil Engineering J. Planning for Sustainable Development K. Development Engineering	3	-	-	20	20	60	100	3
HSSMC4	BTHM606	Indian Constitution	2	-	-	50	-	-	50	Audit
LC 10	BTCVL607	SDD of RC Structures Lab.	-	-	2	20	-	30	50	1
LC 11	BTCVL608	Transportation Engineering Lab	-	-	2	20	-	30	50	1
Project	BTCVM609	Mini Project	-	-	2	20	-	30	50	1
Internship		Mandatory (BTCVP610) Field Training/ Internship/Industrial Training (minimum of 4 weeks training in Summer Vacation after Semester VI and appear at examination in Semester VII.)	-	-	-	-	-	-	-	Credits to be evaluated in VII Sem
Total			17	2	6	210	100	390	700	20

Teaching Scheme:(3 Lectures) hours/week

Course Contents**Module 1: Basic Concepts****(Lectures 06)**

Individual, group, civil society, state, equality, justice. Human Values, Human rights & Human Duties: Origin, Contribution of American bill of rights, French revolution. Declaration of independence, Rights of citizen, Rights of working & exploited people

Module 2: Fundamental Rights and Economic Program**(Lectures 06)**

Society, religion, culture, and their inter-relationship. Impact of social structure on human behavior, Social Structure and Social Problems: Social and communal conflicts and social harmony, rural poverty, unemployment, bonded labour.

Module 3: Workers and Human Rights**(Lectures 08)**

Migrant workers and human rights violations, human rights of mentally and physically challenged. State, Individual liberty, Freedom and democracy.

NGOs and Human Rights in India

Land, Water, Forest issues.

Module 4: Human Rights in Indian Constitution and Law**(Lectures 08)**

i) The Constitution of India: Preamble; ii) Fundamental rights; iii) Directive principles of state policy; iv) Fundamental duties; v)Some other provisions

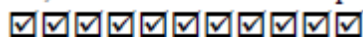
Module 5: UDHR and Indian Constitution**(Lectures 08)**

Universal declaration of human rights and provisions of India; Constitution and law; National human rights commission and state human rights commission.

References

1) Shastri, T. S. N., "India and Human Rights: Reflections", Concept Publishing Company India (P Ltd.), 2005.

2) C. J. Nirmal, "Human Rights in India: Historical, Social and Political Perspectives (Law in India)", Oxford India.



BTCVOE605C Business Communication & Presentation Skills

Teaching Scheme: (3 Lectures) hours / Week

Course Contents

Module 1: Language for Technical Purpose and Presentation Tools (06 Lectures)

Technical vocabulary, Sentence structures, Computer Aids, Graphical presentations
Drafting Letters, e-Mails, Memos, Notices, Circulars, Schedules.

Module 2: Project Proposals and Project Reports (08 Lectures)

Abstract, Aims, Background & significance, Design & methods, writing a sample proposal,
Project Report: Types of reports, planning a report, Collection & organization of information, Structure & style, Proof reading etc.

Module 3: Leadership Skill and Team Building, Working (08 Lectures)

Leadership Skills: Leadership quality and styles, Emotional intelligence, Diplomacy and Tact and effective communication, Case studies. Need of team, Effective teams, Group development

Module 4: Business Meetings (08 Lectures)

Understanding role of meetings, planning meetings, developing meeting agendas, scheduling meetings, Taking notes and publishing minutes

Module 5: Presentation Skills (06 Lectures)

Use of presentation tools, Presentation, nonverbal techniques, handling questions

References:

- Hariharan S. (2010)“Soft Skills” MJP Publishers, Chennai
- Seely S. (2009)“Oxford Guide to Effective Writing and Speaking” Oxford University Press, UK
- Huckin T. N. and Olsen L. A.“Technical Writing and Professional Communication for Nonnative Speakers of English”Tata McGraw Hills, UK
- Masters A. & Harold R. W. (2011) Personal Development for Life & Work, Learning India Private Limited.

Course Outcomes: On completion of the course, the students will be able to:

- CO1: Inculcate basics of business communication skills & relevant tools.
- CO2: Understand business SOPs and essentials of the same.

Teaching Scheme: 2 Lecture / week

The constitution of India:

1. Preamble
2. Fundamental Rights
3. Directive principles of state policy
4. Fundamental Duties
5. Some other provisions

Universal declaration of Human Rights and Provisions of India, Constitution and Law, National Human Rights Commission and State Human Rights Commission.

Module.1 Introduction**(5 Lectures)**

Constitution' meaning of the term, Indian Constitution: Sources and constitutional history, Features: Citizenship, Preamble, Fundamental Rights and Duties, Directive, Principles of State Policy

Module.2 Union Government and its Administration**(5 Lectures)**

Structure of the Indian Union: Federalism, Centre- State, relationship, President: Role, power and position, PM and Council of ministers, Cabinet and Central Secretariat, Lok Sabha, Rajya Sabha

Module.3 State Government and its Administration**(4 Lectures)**

Governor: Role and Position, CM and Council of ministers, State Secretariat: Organisation, Structure and Functions

Module.4 Local Administration**(5 Lectures)**

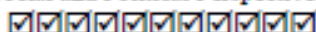
District's Administration head: Role and Importance, Municipalities: Introduction, Mayor and role of Elected Representative, CEO of Municipal Corporation, Pachayati raj: Introduction, PRI: Zila Pachayat, Elected officials and their roles, CEO Zila Pachayat: Position and role, Block level: Organizational Hierarchy (Different departments), Village level: Role of Elected and Appointed officials, Importance of grass root democracy

Module.5 Election Commission**(5 Lectures)**

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

TEXT/REFERENCE BOOKS:

- Sastry, T. S. N., (2005). India and Human rights: Reflections, Concept Publishing Company India (P Ltd.),
- Nirmal, C.J., (1999). Human Rights in India: Historical, Social and Political Perspectives (Law in India), Oxford India.



Semester –IV (Second Year)
Proposed Scheme w.e.f. January – 2022

Course Category	Course Code	Course Title	Weekly Teaching Hrs			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
	BTCOC401	Design & Analysis of Algorithms	3	1	-	20	20	60	100	4
	BTCOC402	Operating Systems	3	1	-	20	20	60	100	4
	BTHM403	Basic Human Rights	3	-	-	20	20	60	100	3
	BTBSC404	Probability and Statistics	3	-	-	20	20	60	100	3
	BTES405	Digital Logic Design & Microprocessors	3	1	-	20	20	60	100	4
	BTCOL406	Operating Systems & Python Programming Lab	1*	-	4	60	-	40	100	3
	BTCOS407	Seminar – II			4	60	-	40	100	2
	BTCOF408	Field Training / Internship / Industrial Training –II Evaluation						-	-	Audit to be evaluated in V Sem.
TOTAL			16	3	8	220	100	380	700	23

*Note: Lecture should be conducted only for Python Programming

Course Code	Course Title	Teaching Scheme			Examination Scheme				
		L	T	P	CA-1	CA-2	Mid Term Test	End Sem Exam	Total Marks
BTHM302/ BTHM402	Universal Human Values - II	3	1	0	10	10	20	60	100

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Semester –V (Third Year)
Proposed Scheme w.e.f. July – 2022

Course Category	Course Code	Course Title	Weekly Teaching Hrs			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
	BTCOC501	Database Systems	3	1	-	20	20	20	100	4
	BTCOC502	Theory of Computation	3	1	-	20	20	20	100	4
	BTCOC503	Software Engineering	3	1	-	20	20	20	100	4
	BTCOE504	Elective – II (A) Human computer Interaction (B) Numerical Methods	3	-	-	20	20	20	100	3
	BTHM505	Elective – III (A) Economics and Management (B) Business Communication	3	-	-	20	20	20	100	3
	BTCOL506	Database Systems & Software Engineering Lab	-	-	4	60	-	40	100	2
	BTCOM507	Mini-project – I	-	-	4	60	-	40	100	2
	BTCOF408	Field Training / Internship / Industrial Training-II (Evaluation)	-	-	-	-	-	-	-	Audit
TOTAL			15	3	8	220	100	380	700	22

BTHM403: Basic Human Rights

[Unit 1] [6 Hours]

The Basic Concepts: - Individual, group, civil society, state, equality, justice, Human Values, Human rights and Human Duties: - Origin, Contribution of American bill of rights, French revolution, Declaration of independence, Rights of citizen, Rights of working and exploited people.

[Unit 2] [6 Hours]

Fundamental rights and economic programme, Society, religion, culture, and their inter relationship, Impact of social structure on human behavior, Social Structure and Social Problems: - Social and communal conflicts and social harmony, rural poverty, unemployment, bonded labor.

[Unit 3] [6 Hours]

Migrant workers and human rights violations, human rights of mentally and physically challenged, State, Individual liberty, Freedom and democracy, NGOs and human rights in India: - Land, Water, Forest issues.

[Unit 4] [6 Hours]

Human rights in Indian constitution and law:- i) The constitution of India: Preamble ii) Fundamental rights iii) Directive principles of state policy vi) Fundamental duties v) Some other provisions.

[Unit 5] [6 Hours]

Universal declaration of human rights and provisions of India, Constitution and law, National human rights commission and state human rights commission.

Text Book:

1. Shastry, T. S. N., India and Human rights: Reflections, Concept Publishing Company India (P Ltd.), 2005.

Reference books:

1. Nirmal, C.J., Human Rights in India: Historical, Social and Political Perspectives (Law in India), Oxford India

UNIVERSAL HUMAN VALUES - II

Course Code	Course Title	Teaching Scheme			Examination Scheme				
		L	T	P	CA-1	CA-2	Mid Term Test	End Sem Exam	Total Marks
BTHM302/ BTHM402	Universal Human Values - II	3	1	0	10	10	20	60	100

Course Objectives:

1. To help the students appreciate the essential complementarity between 'VALUES' and 'SKILLS' to ensure sustained happiness and prosperity which are the core aspirations of all human beings
2. To facilitate the development of a Holistic perspective among students towards life and profession as well as towards happiness and prosperity based on a correct understanding of the Human reality and the rest of existence. Such a holistic perspective forms the basis of Universal Human Values and movement towards value-based living in a natural way
3. To highlight plausible implications of such a Holistic understanding in terms of ethical human conduct, trustful and mutually fulfilling human behavior and mutually enriching interaction with Nature.

Course Outcomes:

- CO1:** To become more aware of themselves, and their surroundings (family, society, nature)
- CO2:** They would become more responsible in life, and in handling problems with sustainable solutions, while keeping human relationships and human nature in mind.
- CO3:** They would also become sensitive to their commitment towards what they have understood (human values, human relationship and human society).
- CO4:** They would be able to apply what they have learnt to their own self in different day-to-day settings in real life, at least a beginning would be made in this direction.

Syllabus:

Module 1 – Introduction to Value Education

- Understanding Value Education
- Self-exploration as the Process for Value Education

- Continuous Happiness and Prosperity – the Basic Human Aspirations
- Right Understanding, Relationship and Physical Facility
- Happiness and Prosperity – Current Scenario
- Method to Fulfill the Basic Human Aspirations

Module 2 – Harmony in the Human Being

- Understanding Human being as the Co-existence of the Self and the Body
- Distinguishing between the Needs of the Self and the Body
- The Body as an Instrument of the Self
- Understanding Harmony in the Self
- Harmony of the Self with the Body
- Programme to Ensure self-regulation and Health

Module 3 – Harmony in the Family and Society

- Harmony in the Family – the Basic Unit of Human Interaction
- Values in Human-to-Human Relationship
- 'Trust' – the Foundational Value in Relationship
- 'Respect' – as the Right Evaluation
- Understanding Harmony in the Society
- Vision for the Universal Human Order

Module 4 – Harmony in the Nature (Existence)

- Understanding Harmony in the Nature
- Interconnectedness, self-regulation and Mutual Fulfilment among the Four Orders of Nature
- Realizing Existence as Co-existence at All Levels
- The Holistic Perception of Harmony in Existence

Module 5 – Implications of the Holistic Understanding – a Look at Professional Ethics

- Natural Acceptance of Human Values
- Definitiveness of (Ethical) Human Conduct
- A Basis for Humanistic Education, Humanistic Constitution and Universal Human Order
- Competence in Professional Ethics

- Holistic Technologies, Production Systems and Management Models-Typical Case Studies
- Strategies for Transition towards Value-based Life and Profession

Text Book and Teachers Manual

a. The Textbook

A Foundation Course in Human Values and Professional Ethics, R R Gaur, R Asthana, G P Bagaria, 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978-93-87034-47-1

b. The Teacher's Manual

Teachers' Manual for *A Foundation Course in Human Values and Professional Ethics*, R R Gaur, R Asthana, G P Bagaria, 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978-93-87034-53-2

Reference Books

1. Jeevan Vidya: Ek Parichaya, A Nagaraj, Jeevan Vidya Prakashan, Amarkantak, 1999.
2. Human Values, A.N. Tripathi, New Age Intl. Publishers, New Delhi, 2004.
3. The Story of Stuff (Book).
4. The Story of My Experiments with Truth - by Mohandas Karamchand Gandhi
5. Small is Beautiful - E. F Schumacher.
6. Slow is Beautiful - Cecile Andrews
7. Economy of Permanence - J C Kumarappa
8. Bharat Mein Angreji Raj - PanditSunderlal
9. Rediscovering India - by Dharampal
10. Hind Swaraj or Indian Home Rule - by Mohandas K. Gandhi
11. India Wins Freedom - Maulana Abdul Kalam Azad
12. Vivekananda - Romain Rolland (English)
13. Gandhi - Romain Rolland (English)

BTHM505 (B): Business Communication

[Unit 1] **[6 Hours]**

Introduction, Definitions & Concepts, Communicative Competence.

[Unit 2] **[6 Hours]**

Intercultural Communication, Nonverbal Communication, Thought and Speech, Translation as Problematic Discourse.

[Unit 3] **[6 Hours]**

Barriers to Communication, Listening, Communication Rules, Communication Style.

[Unit 4] **[6 Hours]**

Interpersonal Communication, Relational Communication, Organizational Communication. Collaboration, Communication in Groups and Teams, Persuasive Communication.

[Unit 5] **[7 Hours]**

Negotiation and Conflict Management, Leadership, Written Communication in International Business, Role of Technology in international Business Communication, Moving to Another Culture, Crisis Communication, Ethics in Business Communication.

Text Book:

1. Mary Ellen Guffey, Essentials of Business Communication, Sixth Edition, South-Western College Publishing

Reference Books:

1. Bovee, Courtland, John Thill & Mukesh Chaturvedi, Business Communication Today: Dorling kindersley, Delhi.
2. Kaul, Asha, Business Communication, Prentice-Hall of India, Delhi.
3. Monippally, Matthukutty M. Business Communication Strategies. Tata McGraw-Hill Publishing Company Ltd., New Delhi.
4. Sharma, Sangeeta and Binod Mishra, Communication Skills for Engineers and Scientists, PHI Learning Pvt. Ltd., New Delhi.

NPTEL Course:

1. International Business Communication, by Aradhana Malik, IIT Kharagpur.

Dr. Babasaheb Ambedkar Technological University, Lonere.

B.Tech (Electrical Engineering / Electrical Engineering (Electronics and Power)/ Electrical & Electronics Engg / Electrical & Power Engineering)

Curriculum of Second Year

Semester III

Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
BSC	BTBS301	Engineering Mathematics-III	3	1	-	20	20	60	100	4
PCC1	BTEEC302	Electrical Machines-I	3	1	-	20	20	60	100	4
PCC2	BTEEC303	Electrical and Electronics Measurement	3	1	-	20	20	60	100	4
HSSMC	BTHM304	Basic Human Rights	2	-	-					Audit
ESC	BTES305	Engineering Material Science	3	-	-	20	20	60	100	3
LC	BTEEL306	Electrical Machines-I Lab			2	60		40	100	1
LC	BTEEL307	Electrical and Electronics Measurement Lab			2	60		40	100	1
Project	BTEEP308	Mini Project-I			4	60		40	100	2
Internship	BTES211P	Internship-I Evaluation						50	50	1
			14	3	8	260	80	410	750	20

Semester IV

Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
PCC3	BTEEC401	Network Theory	3	1	-	20	20	60	100	4
PCC4	BTEEC402	Power System	3	1	-	20	20	60	100	4
PCC5	BTEEC403	Electrical Machine-II	3	1	-	20	20	60	100	4
BSC	BTBS404	Analog and Digital Electronics	3	-	-	20	20	60	100	3
PEC1	BTEEPE405	Group A	3	-	--	20	20	60	100	3
LC	BTEEL406	Network Theory Lab	-	-	2	30		20	50	1
LC	BTEEL407	Power System Lab	-	-	2	30		20	50	1
LC	BTEEL408	Electrical Machine-II Lab	-	-	2	30		20	50	1
LC	BTEEL409	Analog and Digital Electronics lab	-	-	2	30		20	50	1
Internship	BTEEP410	Internship-II (minimum of 4 weeks which can be completed partially in third or fourth semester or in at one time)	-	-	-	-	-	-	-	-
						220	100	380	700	22

Group-A

- (A) Electromagnetic Field Theory
- (B) **Signals and System**
- (C) Advance Renewable Energy Sources
- (D) **Electronic Devices and Circuits**

Unit 1: The Basic Concepts**6Hrs**

Individual, Group, Civil Society, State, Equality, Justice, Human Values: - Humanity, Virtues, Compassion.

Unit 2: Human Rights and Human Duties:**6 Hrs**

Origin, Civil and Political Rights, Contribution of American Bill of Rights, French Revolution, Declaration of Independence, Rights of Citizen, Rights of working and Exploited people, Fundamental Rights and Economic program, India's Charter of freedom

Unit 3: Society, Religion, Culture, and their Inter-Relationship**6 Hrs**

Impact of Social Structure on Human behaviour, Roll of Socialization in Human Values, Science and Technology, Modernization, Globalization, and Dehumanization.

Unit 4: Social Structure and Social Problems**6 Hrs**

Social and Communal Conflicts and Social Harmony, Rural Poverty, Unemployment, Bonded Labour, Migrant workers and Human Rights Violations, Human Rights of mentally and physically challenged.

Unit 5: State, Individual Liberty, Freedom and Democracy**6 Hrs**

The changing of state with special reference to developing countries, Concept of development under development and Social action, need for Collective action in developing societies and methods of Social action, NGOs and Human Rights in India: - Land, Water, Forest issues.

Unit 6: Human Rights in Indian Constitution and Law**6 Hrs**

The constitution of India:

- (i) Preamble
- (ii) Fundamental Rights
- (iii) Directive principles of state policy
- (iv) Fundamental Duties
- (v) Some other provisions

Universal declaration of Human Rights and Provisions of India, Constitution and Law, National Human Rights Commission and State Human Rights Commission

Reference Books:

1. Shastry, T. S. N., India and Human rights: Reflections, Concept Publishing Company India (P Ltd.), 2005.
2. Nirmal, C.J., Human Rights in India: Historical, Social and Political Perspectives (Law in India), Oxford India.

DTE Institute Code : 6217



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Accredited by NAAC

Founder President
Late Shri. Ashokrao Mane

Director
Dr. A. V. Deshmukh, M.E., Ph.D.

President
Hon. Shri. Vijaysinh A. Mane

Ref. No. :

Date :

Summary Sheet

Name of Department: Mechanical Engineering

Academic Year 2023-24

Sr No	Course Name
1	Basic Human Rights
2	Human Resource Management
3	Wind Energy

Course Structure for Semester III

B. Tech in Mechanical Engineering / B. Tech. in Mechanical Engineering (Sandwich) (2022-23)

Semester III										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				No. of Credits
			L	T	P	CA	MSE	ESE	Total	
BSC7	BTBS301	Engineering Mathematics – III	3	1	-	20	20	60	100	4
PCC1	BTMC302	Fluid Mechanics	3	1	-	20	20	60	100	4
PCC2	BTMC303	Thermodynamics	3	1	-	20	20	60	100	4
ESC10	BTMES304	Materials Science and Metallurgy	3	1	-	20	20	60	100	4
PCC3	BTMCL305	Machine Drawing and CAD Lab	-	-	4	60	-	40	100	2
PCC4	BTMCL306	Mechanical Engineering Lab – I	-	-	4	60	-	40	100	2
PROJ-2	BTES209P	IT – 1 Evaluation	-	-	-	-	-	100	100	1
Total			12	4	8	200	80	420	700	21

BSC = Basic Science Course, ESC = Engineering Science Course, PCC = Professional Core Course
 PEC = Professional Elective Course, OEC = Open Elective Course, LC = Laboratory Course
 HSSMC = Humanities and Social Science including Management Courses

Course Structure for Semester IV

B. Tech in Mechanical Engineering / B. Tech. in Mechanical Engineering (Sandwich) (2022-23)

Semester IV										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				No. of Credits
			L	T	P	CA	MSE	ESE	Total	
PCC 5	BTMC401	Manufacturing Processes – I	3	1	-	20	20	60	100	4
PCC 6	BTMC402	Theory of Machines-I	3	1	-	20	20	60	100	4
HSSMC3	BTHM403	Basic Human Rights	3	-	-	20	20	60	100	3
ESC11	BTMES404	Strength of Materials	3	1	-	20	20	60	100	4
PEC 1	BTMPE405A-C	Elective-I	3	-	-	20	20	60	100	3
PCC7	BTMCL406	Mechanical Engineering Lab-II	-	-	4	60	-	40	100	2
PROJ-3	BTMI407	Field Training /Industrial Training (minimum of 4 weeks which can be completed partially in the third and fourth semester or in one semester itself)	-	-	-	-	-	-	-	Credits to be evaluated in Sem V
Total			15	4	4	160	100	340	600	20

BSC = Basic Science Course, ESC = Engineering Science Course, PCC = Professional Core Course

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HSSMC = Humanities and Social Science including Management Courses

Elective I

Sr. No	Course code	Course Name
1	BTMPE405A	Numerical Methods in Engineering
2	BTMPE405B	Sheet Metal Engineering
3	BTMPE405C	Fluid Machinery

Course Structure for Semester V

B. Tech in Mechanical Engineering / B. Tech. in Mechanical Engineering (Sandwich) (2022-23)

Semester V										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				No. of Credits
			L	T	P	CA	MSE	ESE	Total	
PCC 8	BTMC 501	Heat Transfer	3	1	-	20	20	60	100	4
PCC 9	BTMC 502	Machine Design – I	3	1	-	20	20	60	100	4
PCC 10	BTMC 503	Theory of Machines- II	3	1	-	20	20	60	100	4
PEC 2	BTMPE 504A-C BTAPE504A,D	Elective-II	3	-	-	20	20	60	100	3
OEC 1	BTMOE 505A-D	Open Elective-I	3	-	-	20	20	60	100	3
PCC 11	BTMC 506	Applied Thermodynamics	3	-	-	20	20	60	100	3
PCC12	BTMCL 507	Mechanical Engineering Lab – III	-	-	6	60	-	40	100	3
PROJ-3	BTMI 408	IT – 2 Evaluation	-	-	-	-	-	100	100	1
Total			18	3	6	180	120	500	800	25

BSC = Basic Science Course, ESC = Engineering Science Course, PCC = Professional Core Course

PEC = Professional Elective Course, OEC = Open Elective Course, LC = Laboratory Course

HSSMC = Humanities and Social Science including Management Courses

Elective II

Sr. No	Course code	Course Name
1	BTMPE504A	Refrigeration and Air conditioning
2	BTMPE504B	Steam and Gas Turbines
3	BTMPE504C	Engineering Tribology
4	BTAPE504A	Fundamentals of Automobile Design
5	BTAPE504D	Automobile Engineering

Open Elective I

Sr.No.	Course code	Course Name
1	BTMOE505A	Solar Energy
2	BTMOE505B	Renewable Energy Sources
3	BTMOE505C	Human Resource Management
4	BTMOE505D	Product Design Engineering

Course Structure for Semester VI
B. Tech in Mechanical Engineering / B. Tech. in Mechanical Engineering (Sandwich)
(2022-23)

Semester VI										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				No. of Credits
			L	T	P	CA	MSE	ESE	Total	
PCC12	BTMC 601	Manufacturing Processes-II	3	1	-	20	20	60	100	4
PCC13	BTMC 602	Machine Design-II	3	1	-	20	20	60	100	4
PEC3	BTMPE 603A-C BTAPE 603C,E	Elective-III	3		-	20	20	60	100	3
PEC4	BTMPE 604A-D BTAPE 604B	Elective-IV	3		-	20	20	60	100	3
OEC2	BTMOE 605A-E	Open Elective-II	3	-	-	20	20	60	100	3
PCC14	BTMCL 606	Mechanical Engineering Lab – IV	-	-	6	60	-	40	100	3
PROJ-4	BTMS607	B Tech Seminar	-	-	2	60		40	100	1
PROJ-5	BTMP 608	Mini Project (TPCS)	-	-	2	60	-	40	100	1
PROJ-6	BTMI 609 (IT-3)	Field Training / Industrial Training (minimum of 4 weeks which can be completed partially in fifth semester and sixth semester or in one semester itself).	-	-	-	-	-	-	-	Credits to be evaluated in Sem VII
Total			15	2	10	280	100	420	800	22

BSC = Basic Science Course, ESC = Engineering Science Course, PCC = Professional Core Course
 PEC = Professional Elective Course, OEC = Open Elective Course, LC = Laboratory Course
 HSSMC = Humanities and Social Science including Management Courses

Elective III:

Sr.No	Course code	Course Name
1	BTMPE603A	IC Engines
2	BTMPE603B	Mechanical Vibrations
3	BTMPE603C	Machine Tool Design
4	BTMPE603D	Engineering Metrology and Quality Control
5	BTAPE603C	Advance Automobile Design
6	BTAPE603E	E – Vehicles

Elective IV:

SrNo	Course code	Course Name
1	BTMPE604A	Process Equipment Design
2	BTMPE604B	Product Life Cycle Management
3	BTMPE604C	Finite Element Method
4	BTMPE604D	Robotics
5	BTAPE604B	Computational Fluid Dynamics

Open Elective II:

Sr.No	Course code	Course Name
1	BTMOE605A	Quantitative Techniques and Project Management
2	BTMOE605B	Nanotechnology
3	BTMOE605C	Energy Conservation and Management
4	BTMOE605D	Wind Energy
5	BTMOE605E	Introduction to Probability Theory and Statistics

References:

1. Thomas Beven, “Theory of Machines”, CBS Publishers and Distributors, Delhi.
2. J. E. Shigely, J. J. Uicker, “Theory of Machines and Mechanisms”, Tata McGraw Hill Publications, New York, International Student Edition, 1995.

Basic Human Rights

BTHM403	HSSMC3	Basic Human Rights	3-0-0	3 Credits
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Teaching Scheme:	Examination Scheme:
Lecture: 3 hrs/week	Continuous Assessment: 20 Marks Mid Semester Exam: 20 Marks End Semester Exam: 60 Marks(Duration 03 hrs)

Pre-Requisites: None

Course Outcomes: At the end of the course, students will be able to:

CO1	Understand the history of human rights.
CO2	Learn to respect others caste, religion, region and culture.
CO3	Be aware of their rights as Indian citizen.
CO4	Understand the importance of groups and communities in the society.
CO5	Realize the philosophical and cultural basis and historical perspectives of human rights.
CO6	Make them aware of their responsibilities towards the nation.

Mapping of course outcomes with program outcomes

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO1
CO1						2						
CO2												
CO3												
CO4									3			
CO5								2		2		

Human Resource Management

BTMOE505C	OEC1	Human Resource Management	3-0-0	3 Credits
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Teaching Scheme:	Examination Scheme:
Lecture: 3 hrs/week	Continuous Assessment: 20 Marks Mid Semester Exam: 20 Marks End Semester Exam: 60 Marks(Duration 03 hrs)

Pre-Requisites: None

Course Outcomes: At the end of the course, students will be able to:

CO1	Describe trends in the labor force composition and how they impact human resource management practice.
CO2	Discuss how to strategically plan for the human resources needed to meet organizational goals and objectives.
CO3	Define the process of job analysis and discuss its importance as a foundation for human resource management practice
CO4	Explain how legislation impacts human resource management practice.
CO5	Compare and contrast methods used for selection and placement of human resources.
CO6	Describe the steps required to develop and evaluate an employee training program
CO7	Summarize the activities involved in evaluating and managing employee performance.
CO8	Identify and explain the issues involved in establishing compensation systems.

Mapping of course outcomes with program outcomes

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1					2						1	
CO2											3	
CO3										2		
CO4								2		2		
CO5									2	3		
CO6										1		3
CO7										2	2	
CO8											2	

Course Contents:

Unit1: Introduction to Human Resource management

[07 Hours]

Concept of management, concept of human resource management, personnel to human resource management, human resource management model, important environmental influences like government regulations, policies, labor laws and other legislation. Acquisition of human resources: Human resource planning, Demand for man power, Weaknesses of man power planning, job analysis, job specification, recruitment sources, recruitment advertising, the selection process, selection devices, equal opportunities: Indian and foreign practices, socializing the new employee

Unit2: Development of Human resources

[07 Hours]

Employee Training and Management Development: Training, Training and Learning, Identification of training needs, training methods, Manager Development, Methods for developing managers, evaluating training effectiveness

Career Development: Concept of career, value of effective career development, external versus internal dimensions to a career, career stages, linking career dimensions with stages

Unit3: Motivation of Human resources [07 Hours]

Definition of motivation, Nature and Characteristics of Motivation, Theories of motivation: Maslow's Need Hierarchy Theory, Drucker Theory, Likert Theory, Herzberg Two Factor theory, McClelland Theory, McGregor Theory, X and Y, etc., Psychological approach. Job Design and Work

Scheduling: Design, Scheduling and Expectancy Theory, Job characteristics model, job enrichment, job rotation, work modules, flex-time, new trends in work scheduling.

Unit4: Performance appraisal [07 Hours]

Performance appraisal and expectancy theory; appraisal process, appraisal methods, factors that can destroy appraisal. Rewarding the Productive Employee: Rewards and expectancy theory, types of rewards, qualities of effective rewards, criteria for rewards.

Unit5: Maintenance of Human resources and Labor Relations [07 Hours]

Compensation Administration: Concept of Compensation Administration, Job evaluation, Pay structures, Incentive compensation plans. Benefits and Services: Benefits: Something for everybody, Services, Trends in benefits and services

Discipline: Concept of Discipline, types of discipline problems, general guidelines, disciplinary action, employment-at-will doctrine, disciplining special employee groups Safety and Health: safety programs, health programs, stress, turn out.

Unions, Major labor legislation, goals of group representation. Collective Bargaining: objectives, scope, participants of collective bargaining, process of collective bargaining, trends in collective bargaining Research and the future: What is research? Types of research, hiring searching human resource management, Secondary sources: where to look it up, Primary sources: relevant research methods, current trends and implications for human resource management.

Texts:

1. David A. De Cenzo, Stephen P. Robbins, "Personnel/Human Resources Management", Prentice Hall of India Pvt. Ltd, 3rd edition, 2002.
2. Trevor Bolton, "An Introduction to Human Resource Management", Infinity Books, 2001.

References:

1. Ellen E. Kossek, "Human Resource Management—Transforming the Workplace", Infinity Books, 2001.
2. G.S. Batra, R.C. Dangwal, "Human Resource Management New Strategies", Deep and Deep Publications Pvt. Ltd., 2001.
3. D.M. Silvera, "HRD: The Indian Experience", New India Publications, 2nd edition, 1990.

Wind Energy

BTMOE605D	OEC2	Wind Energy	3-1-0	4 Credits
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Teaching Scheme:	Examination Scheme:
Lecture: 3 hrs/week Tutorial: 1 hr/week	Continuous Assessment: 20 Marks Mid Semester Exam: 20 Marks End Semester Exam: 60 Marks (Duration 03 hrs)

Pre-Requisites: None

Course Outcomes: At the end of the course, students will be able to:

CO1	Understand historical applications of wind energy
CO2	Understand and explain wind measurements and wind data
CO3	Determine Wind Turbine Power, Energy and Torque
CO4	Understand and explain Wind Turbine Connected to the Electrical Network AC and DC
CO5	Understand economics of wind energy

Mapping of course outcomes with program outcomes

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1							2	2	2	1		1

CO2		3	2	1	3	2	2	2	2			1
CO3	3	3	1	1	2	2	1					1
CO4	3	3		1								1
CO5	3	2	1									1

Course Contents:

Unit 1: Introduction and Wind Measurements [07 Hours]

Historical uses of wind, History of wind electric generations

Wind Characteristics: Metrology of wind, World distribution of wind, Atmospheric stability, Wind speed variation with height, Wind speed statistics, Weibull statistics, Weibull parameters, Rayleigh and normal distribution

Wind Measurements

Biological indicators, Rotational anemometers, other anemometers, Wind direction

Unit 2: Wind Turbine Power, Energy and Torque [07 Hours]

Power output from an ideal turbine, Aerodynamics, Power output from practical turbines, Transmission and generation efficiency, Energy production and capacity factor, Torque at constant speeds, Drive train oscillations, Turbine shaft power and torque at variable speeds.

Unit 3: Wind Turbine Connected to the Electrical Network [07 Hours]

Methods of generating synchronous power, AC circuits, the synchronous generator, per unit calculations, the induction machine, motor starting, Capacity credit features of electrical network

Unit 4: Wind Turbines with Asynchronous Electric Generators [07 Hours]

Asynchronous systems, DC shunt generator with battery load, Per unit calculation, Self-excitation of the induction generators, Single phase operation the induction generator, Field modulated generators, Roesel generator.

Asynchronous Load: Piston water pumps, Centrifugal pumps, Paddle wheel heaters, Batteries, Hydrogen economy, and Electrolysis cells.

Unit 5: Economics of Wind Systems [07 Hours]

Capital costs, Economic concepts, Revenues requirements, Value of wind generated electricity

Texts:

1. S. Ahmad, "Wind Energy: Theory and Practice", Prentice Hall of India Pvt. Ltd.

References:

1. Garg L. Johnson, "Wind Energy Systems" Prentice Hall Inc., New Jersey, 1985.
2. Desire Le Gouriers, "Wind Power Plants: Theory and Design" Pergamon Press, 1982.

MBA Part -I Semester-I

Paper No.	Course Code	Subjects	Weekly	Internal Marks	Uni. Exam		Total Marks
					Written	Online /Written MCQ	
1	CC 101	Indian Ethos & Management Concepts	4	20	60	20	100
2	CC102	Management Accounting	4	20	60	20	100
3	CC 103	Managerial Economics	4	20	60	20	100
4	CC 104	Information Technology for Management	4	20	60	20	100
5	CC 105	Legal and Business Environment	4	100	-	-	100
6	CC 106	Organizational Behaviour	4	20	60	20	100
7	SECC 107	Soft Skill Development (Internal)	4	20	60	20	100
8	SECC 108	Optional – A* (Internal)	2	50	--	--	50
		Total	30	280	300	120	700

MBA Part-I Semester-II

Paper No.	Course Code	Subjects	Weekly	Internal Marks	Uni. Exam		Total Marks
					Written	Online/ Written MCQ	
9	CC 201	Marketing Management	4	20	60	20	100
10	CC 202	Financial Management	4	20	60	20	100
11	CC 203	Human Resource Management	4	20	60	20	100
12	CC 204	Operations Management	4	20	60	20	100
13	CC 205	Management Information System	4	20	60	20	100
14	CC 206	Research Methodology	4	20	60	20	100
15	AECC 207	Managerial Skills for Effectiveness (Internal)	4	100	-	-	100
16	SECC 208	Optional – B* (Internal)	2	50	--	--	50
		Total	30	280	300	120	700

b) Practical	Visit an organization to study its vision, mission and objective to crystallize organizational culture. Study organizational development techniques implemented in the same organization.	5 Hours
Reference Books: Organizational behaviour - Fred Luthans; Organizational Behaviour - Stephen Robbins; Organizational Behaviour - K. Aswathappa (8 th revised edition); Business, Psychology and Organizational Behaviour – Eugene McKenna. Understanding Organizational behaviour - Udai Pareek, Theories of Personality – Calvin Hall, Gardner Lindzey and John Campbell; Personality and Motivation – A.H.Maslow. Organizational Behaviour – Dr. C.B.Gupta Organizational Behaviour A Strategic Approach – Hitt, Miller, Colella		

(Choice Based Credit System) MBA-I SEM-I (Internal) Soft Skills Development Paper - VII			
Course outcomes	After the completion of the course, students will be able to: 1. understand the soft skills 2. Develop professional etiquettes and manners 3. Develop effective communication skills		
Expected Skills Impartation	1. Decision making 2. Effective presentations 3. Time and emotion management 4. Effective communication skills		
Marks : 80	Total Hours of teaching:60	Theory: 40	Practical:20
Syllabus Contents:			
Unit 1: a)Theory	Basics of soft skills: Introduction to soft skills, importance , understanding oneself, innovative thinking, problem management, stress and emotional management, leadership, team work	10 Hours	
b) Practical	<ul style="list-style-type: none"> • Ice breaking activities • Role play activities • Team work activities 	05 Hours	
Unit 2: a)Theory	Critical thinking Skills Introduction, Definition, importance of critical thinking, Critical thinking process- identification, research, identifying biases, inference, determining relevance, curiosity, Critical thinking habits, How to improve critical thinking skills	10 Hours	
b) Practical	<ul style="list-style-type: none"> • Critical thinking tests • Critical thinking activities such as Jigsaw- developing community and disseminating knowledge • Videos on critical thinking skills followed by discussion on it. 	05 Hours	
Unit 3: a)Theory	Effective Communication Skills Introduction, understanding communication, the Communication process, Types of communication, Barriers to effective	10 Hours	

	<p>communication, 7 C's of communication,</p> <p>A. Listening Skills: Listening, Active listening and Passive listening, Blocks to effective listening, Guidelines for Effective listening, importance of silence in communication</p> <p>B. Speaking Skills Process of speaking-Pronunciation, Speech mechanism ,aspects of effective speaking- accents, intonation, pitch, etc. Greetings, Apology, Permission,</p> <p>C. Reading Skills: Introduction, what is reading? Types of reading- slow, fast, silent, SQ3R technique of reading. Reading skills in business- diagrams, directories, correspondence, manuals, records, charts, graphs and tables.</p> <p>D. Writing Effective English Word formulations- Prefixes , suffixes , , vocabulary development, basic sentence patterns, types of sentences- Simple, complex, compound</p>	
b) Practical	<p>One minute speech, Role play Poetry recitation Seminar presentation</p> <ul style="list-style-type: none"> • Reading comprehension: <ol style="list-style-type: none"> 1. On the education of a Man of Business- Arthur Helps 2. Good Manners –J.G. Hill • Listening activities: Listen to the audios and script down the audio. 	05 Hours
Unit 4: a)Theory	<p>A) Problem Management: Process activities, methods and techniques, Reactive problem management , proactive problem management Identification and classification of problems, problem resolution</p>	10 Hours
b) Practical	<ul style="list-style-type: none"> • Problem management activities • Videos on problems followed by discussion on how to solve them. • Problem management exercises 	05 Hours
Suggested Activity	<ul style="list-style-type: none"> • Students should take critical thinking, creative thinking, and Communication Skills tests. 	
<p>Reference Books :</p> <ol style="list-style-type: none"> 1 Communication :Skills and Soft Skills Avani Sharma, Yking Books, Jaipur2017 2 Linguistics and the process of communication, , Dr. Vipul V. Makodia 3 Communicative Spoken English , Rajneesh Nayar, Mark Publishers, Jaipur 4 Enriching your competence in English, A. R. Thorat, B. S. Valke, S. B. Gokhale, Orient Longman, Hyderabad 5 Essential Communication Skills, Shalini Aggarwal , Ane Books Pvt. Ltd., New Delhi 6 Business Communication, Urmila Rai, S. M. Rai, Himalaya Publishing House , Mumbai. 		
Suggested additional reading:		
Suggested Research journal:		

	<p>communication, 7 C's of communication,</p> <p>A. Listening Skills: Listening, Active listening and Passive listening, Blocks to effective listening, Guidelines for Effective listening, importance of silence in communication</p> <p>B. Speaking Skills Process of speaking-Pronunciation, Speech mechanism ,aspects of effective speaking- accents, intonation, pitch, etc. Greetings, Apology, Permission,</p> <p>C. Reading Skills: Introduction, what is reading? Types of reading- slow, fast, silent, SQ3R technique of reading. Reading skills in business- diagrams, directories, correspondence, manuals, records, charts, graphs and tables.</p> <p>D. Writing Effective English Word formulations- Prefixes , suffixes, , vocabulary development, basic sentence patterns, types of sentences- Simple, complex, compound</p>	
b) Practical	<p>One minute speech, Role play Poetry recitation Seminar presentation</p> <ul style="list-style-type: none"> • Reading comprehension: <ol style="list-style-type: none"> 1. On the education of a Man of Business- Arthur Helps 2. Good Manners –J.G. Hill • Listening activities: Listen to the audios and script down the audio. 	05 Hours
Unit 4: a)Theory	<p>A) Problem Management: Process activities, methods and techniques, Reactive problem management , proactive problem management Identification and classification of problems, problem resolution</p>	10 Hours
b) Practical	<ul style="list-style-type: none"> • Problem management activities • Videos on problems followed by discussion on how to solve them. • Problem management exercises 	05 Hours
Suggested Activity	<ul style="list-style-type: none"> • Students should take critical thinking, creative thinking, and Communication Skills tests. 	
<p>Reference Books :</p> <ol style="list-style-type: none"> 1 Communication :Skills and Soft Skills Avani Sharma, Yking Books, Jaipur2017 2 Linguistics and the process of communication, , Dr. Vipul V. Makodia 3 Communicative Spoken English , Rajneesh Nayar, Mark Publishers, Jaipur 4 Enriching your competence in English, A. R. Thorat, B. S. Valke, S. B. Gokhale, Orient Longman, Hyderabad 5 Essential Communication Skills, Shalini Aggarwal , Ane Books Pvt. Ltd., New Delhi 6 Business Communication, Urmila Rai, S. M. Rai, Himalaya Publishing House , Mumbai. 		
Suggested additional reading:		
Suggested Research journal:		

31	DSE 407	Elective-II Paper-IV	4	20	60	20	100
32	SECC 408	Optional – D* (Internal)	2	50	--	--	50
		Total	30	280	300	120	700

Electives:

Sr.	Existing Electives**	Sr.	Additional Electives Offered**
1	Marketing Management	8	Hospitality Management
2	Human Resource Management	9	Entrepreneurship Development
3	Financial Management	10	International Business
4	Production Management	11	Business Analytics
5	IT & System Management		
6	Agriculture Business Management		
7	Textile Management		

Optional Papers:

Sr.	Optional A Paper - VIII	Sr.	Optional B Paper - XVI
I	Chh. Shivaji Maharaj -The Management Guru	I	Total Quality Management
II	Computerized Accounting	II	Negotiation Skills
III	Personality Development	III	Taxation
IV	Business Models	IV	E-Business
V	Constitution of India	V	Computer Applications for Business
VI	Creativity and Innovation	VI	Behavioural Finance
Sr.	Optional C Paper - XXIV	Sr.	Optional D Paper - XXXII
I	Corporate Social Responsibility	I	Corporate Finance
II	ERP/SAP	II	B2B Marketing
III	Business Analytics	III	Econometrics
IV	Labour Laws	IV	Organizational Development
V	Marketing Research	V	Sports Management
VI	Customer Relationship Management	VI	Logistic and Supply Chain Management

	Chougule,Rajan (2018). Computerized Accounting, Kolhapur.	
	Note – Entire Syllabus should be taught with pragmatic approach. Questions should be asked both on theory and practical.	

MBA I Sem I, Optional A Personality Development Paper – VIII (III)		
Course Outcomes	1. Students will be able to develop professional personality, positive attitude towards everything. 2. Students will be able to develop good interpersonal relations with other individuals at work place. 3. Students will learn the time management and professional manners and etiquettes.	
Expected Skills Impartation	1. Self management skills 2. Interpersonal skills 3. Etiquette and Manners	
Marks 50	Total Hours of Teaching : 30	Theory:20 Practical :10
Unit 1 :		10 Hrs
a)Theory	a)Introduction to different personality traits. b)Self Management --- Self Evaluation, Self discipline, Self criticism, Recognition of one's own strengths and weaknesses, Self-Discovery and Goal Setting d)Positive Thinking and Attitude- Development of Positive thinking and attitude. e)Interpersonal Relations- Sensitivity Training.	
b)Practical	a)Meditation session(Students should write their experience about meditation and submit it.) b)Sessions on interpersonal relations, e.g. How to introduce oneself, style of greeting, introducing others to third parties. (Videos of students during practical session to be recorded and preserved for evaluation)	5 Hrs.
Unit 2 :		10 Hrs
a)Theory	a)Etiquette and Manners----Professional Etiquette---Technology Etiquette-- Table Manners b)Time Management c)Grooming-Dressing, Postures, Gestures, e)email and telephone communication f)Physical Fitness- Importance and ways of achieving it., Healthy eating habits.	
b)Practical	a) Practical session on table manners. b) Practical session on Dressing, Postures, Gestures	5 Hrs.
(All the practicals to be conducted by experts) (Videos of students during practical session to be recorded and preserved for evaluation)		
Reference Books:		
a) Managing Soft Skills For Personality Development--- <u>B.N. Ghosh</u> --- McGraw Hill Education b) Personality Development, Interpersonal Skills and Career Management--- <u>Dr. C.S.G. Krishnamacharyulu</u> and <u>Dr. Lalitha Ramakrishnan</u> ---- Himalaya Publishing House Pvt.Ltd. c) Personality Development –R.C. Bhatia--- Ane Books Pvt.Ltd. d) Soft Skills: An Integrated Approach to Maximise Personality ---Gajendra Singh Chauhan---Wiley Publisher		