- Torsion test of a rod on torsion testing machine. 6.
- 7. Stiffness test on spring testing machine.
- Study of two stroke and four stroke engine model. 8.
- Fatigue test on fatigue testing machine. 9.
- 10. Deflection on bending of simple supported and cantilever beams.
- 11. Determination of COP of vapour absorption system.
- 12. Determination of COP of vapour compression refrigeration system.
- 13. Study of steam boilers model.

Study of domestic refrigerator

Books & References

- 1. Basic and Applied Thermodynamics-P. K. Nag (Tata McGraw Hill)
- 2. Basic Thermodynamics- Cengel(Tata McGraw Hill).
- 3. Applied Thermodynamics-Onkar Singh (New Age International)
- 4. Elements of Materials science and Engineering-Van Vlash (Jhon Wiley & Sons)
- 5. Material Science-V. Raghvan (Prentice Hall India Limited)
- 6. Mechanical Measurement-G. Beckwith Thomas (Narosa Publishing House)
- 7. Mechanical Measurement – Sirohi (New Age Publications)
- 8. Strength of Materials-S. Ramamurtham (Dhanpat rai Publishing Co.)
- 9. Strength of Materials-R. K. Rajput (S. Chand)
- 10. Strength of Materials–R. K. Bansal (Lakshmi Publications)

BHM-101/151 PROFESSIONAL COMMUNICATION

Course category Humanities & Social Science (HSS)

Pre-requisite Subject

Contact hours/week Lecture: 2, Tutorial: 0, Practical: 0

Number of Credits 2

Course Assessment Continuous assessment through tutorials, attendance, home methods

Minor tests and One Major Theory & Practical Examination.

assignments, quizzes, practical work, record, viva voce and Two

Course **Objective** The course aims:

- 1) To sensitize the students to understand the role& importance of communication for personal & professional success.
- 2) To enable learners to exhibit knowledge, skills, and judgment in and around human communication that

- facilitates their ability to work collaboratively with others in an interpersonal environment.
- 3) To develop awareness and understanding of applying appropriate communication strategies resulting into the enhancement of learners' employability skills.

Course Outcomes: The students are expected to be able to demonstrate the following knowledge, skills and attitudes after completing this course.

- 1) Use of various facets of communication skills, such as, Reading, Writing, Listening and speaking skills.
- 2) To identify, formulate and solve the real life problems with positive attitude.
- 3) To inculcate the habit of learning and developing the communication and soft skills by practice.
- 4) To enhance effortless speaking and writing skills with the help of rich word power.
- 5) To develop personality by introducing and inculcating effective presentation strategies.
- 6) To focus on audio, visual aids for effective oral communication skills

Topic Covered

UNIT-I

VERBAL COMMUNICATION:

6

Received Pronunciation; how to activate passive vocabulary; Technical/non-technical and Business Presentations; questioning and answer skills; soft skills for professionals; role of body postures, movements, gestures, facial expressions, dress in effective communication; Information/ Desk/ Front Office/ Telephone conversation; how to face an interview/press conference; Group discussions, debates, elocution.

UNIT-II

READING COMPREHENSION

6

Skimming and Scanning; factual and inferential comprehension; prediction; guessing meaning of words from context; word reference; use and interpretation of visuals and graphics in technical writing.

UNIT-III

WRITTEN COMMUNICATION:

6

Note Making and Note Taking; summarizing; invitation, advertisement, agenda, notice and memos; official and commercial letters; job application; resume and curriculum vitae; utility, technical, project and enquiry reports; paragraph writing: General – Specific, Problem – Solution, Process – Description, Data – Comment.

UNIT-IV

SHORT ESSAYS:

6

Description and Argument; comparison and contrast; illustration; using graphics in writing: tables and charts, diagrams and flow charts, maps and plans, graphs; how to write research paper; skills of editing and revising; skills of referencing; what is a bibliography and how to prepare it.

Textbooks:

- 1) Bansal, R.K. & Harrison J.B., (1972) Spoken English, Orient Longman, India.
- 2) Chauhan, Narender Kr. & Singh, Sudhir N., (2013) *Formal Letters*, Pankaj Publication International, New Delhi.
- 3) Chhabra T.N., (2019) Business Communication, Sun India Publication, New Delhi.

- 4) Dixon Robert J., (1986) Complete Course in English, Prentice Hall of India, New Delhi.
- 5) Jones, Daniel.(2012) *Cambridge English Pronouncing Dictionary*, 18thEdition, Paperback, CUP, India.
- 6) Lewis, Norman, (2015) Word Power Made Easy, Penguin India.
- 7) Sethi J. & Jindal, (1993) *Handbook of Pronunciation of English Words* D.V.A, Prentice Hall of India, New Delhi.
- 8) Sharma R.C. & Mohan Krishna, (2017) *Business Correspondence and Report Writing*, Tata McGraw Hill.
- 9) Thomson, A. J. & and Martinet A. V., (1997)*A Practical English Grammar*, Paperback, Ed. IVth, Oxford.