Department of Humanities & Social Sciences

CURRICULUM AND SYLLABUS

(From Academic Year 2024-25 onwards)

Department of Humanities & Social Sciences

NATIONAL INSTITUTE OF TECHNOLOGY

MANIPUR

Langol Road, Lamphelpat, Imphal, Manipur - 795004

Rudra P Pradhan
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A. CORE/COMPULSORY SUBJECTS in B. Tech

Semester	Course Code	Course Name	L	T	P	Credits
1st Sem (CE, CSE, ECE, EE & ME)	HS 1101	Professional Communication Skills	2	0	2	3
3rd Sem (CSE), 6th Sem (CE, ECE, ME) 7th Sem (EE)	HS2301/ HS3601/ HS4701	Managerial Economics and Financial Accounting	2	0	2	3
		Total	**4**	**0**	**4**	**6**

B. LIST OF OPEN ELECTIVES (OE)

Sl. No.	Semester	Course Code	Course Name	L	T	P	Credits
1.	6th Sem	HS3651	Entrepreneurship for Engineers	2	0	2	3
2.	7th Sem	HS4751	Management Principles and Practices	2	0	2	3
3.	7th Sem	HS4752	Soft Skills	3	0	0	3

C. LIST OF VALUE-ADDED COURSES (VAC)

Sl. No.	Course Code	Course Name	L	T	P	Credits
1.	HS119X	Extra Academic Activity-I 2. NSS 3. NCC	 0 0	 0 0	 4 4	 0 0
3.	HS129X	Extra Academic Activity-II 1. NSS 2. NCC 3. Professional Ethics 4. Indian Knowledge System	 0 0 2 2	 0 0 0 0	 4 4 0 0	 0 0 2 2

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Syllabus of the Department Core Subject

HS1101	PROFESSIONAL COMMUNICATION SKILLS	L-T-P-C (2-0-2-3)

Communication Skills: Introduction, Definition, The Importance of Communication, Types of Communication, Verbal and Non Verbal Communication, Seven Cs of Communication, Barriers to Communication.

Paragraph Writing: Definition, 5 Types of Paragraph Writing

Business Letter Writing: Introduction: Importance of Business Letters and Elements of Structure, Layout and Types of Business Letters, Preparing Agenda and Minutes of a meeting, Writing Notices and Memos, Drafting an E-mail, Press Release.

Reading Comprehension: Introduction to Comprehension Passages: Four main types of Comprehension.

Textbooks/Reference:

1. Meenakshi Raman and Sangeeta Sharma, *Technical Communication: Principles and Practice*, Oxford University Press, 2011.
2. Mattukutty M. Monippally, *Business Communication Strategies*, Tata McGraw-Hill Publishing Co.Ltd, 2001.
3. Shirley Taylor, *Model Business Letters, E-mails and other Business documents* (VI Edition), Pearson Education/ Prentice Hall, 2012.
4. Michael Swan, *Practical English Usage*, Oxford University Press, 2005.

HS2301/ HS3601/ HS4701	MANAGERIAL ECONOMICS & FINANCIAL ACCOUNTING	L-T-P-C (2-0-2-3)

Introduction to Managerial Economics: Introduction, Meaning and Scope

Demand Analysis and Forecasting: Law of demand, demand function, Elasticity of demand-Price, Income, Cross

Production and Cost Analysis: Production Function-Long run and Short run, Cost Concepts- Fixed cost, variable cost, total cost, marginal cost, Average cost

Market Structures: Perfect Competition, Monopoly, Monopolistic Competition, Oligopoly, and pricing strategy under different market structures

Introduction to Macroeconomics: National Income and its concepts, Consumption and Savings Approach, Importance of National Income, Economic Growth, Macroeconomic problems, Inequality, Inflation and its types, measurement, Unemployment and its types, measurement, Money and its function. Interest Rate, Balance of payment- current account/balance of trade, capital account,

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etc. Basics of Financial accounting, preparation of financial statements, financial ratios, cost sheet, Concepts of financial management & smart investment-financial valuation, cost of capital.
Textbooks/ Reference: 1. Lewis, Jain & Peterson, *Managerial Economics*, Pearson Education, 2005. 2. Jain & Narang, *Accounting*, Kalyani Publishers, 2011. 3. Rishi Bhargav Das and Dr. Jagatjyoti Barua, *Engineering Economics and Accountancy*, Mahavir Publications, 2021

OPEN ELECTIVES (OE) FROM HSS

HS3651	ENTREPRENEURSHIP FOR ENGINEERS	L-T-P-C (3-0-0-3)
Definition and evolution of entrepreneurship, Characteristics and types of entrepreneurs. Entrepreneurial mindset for engineers. Theories of entrepreneurship. Importance of entrepreneurship for engineers and society. Creativity and innovation techniques. Design Thinking and Lean Startup concepts. Methods for idea generation: brainstorming, SCAMPER, TRIZ. Opportunity recognition and feasibility analysis. Market research basics. Business Model Canvas (BMC) – key components. Value proposition design. Customer segmentation and value capture. Business plan structure: executive summary, operations, marketing, finance. Pitching ideas and elevator pitches. Sources of funding: bootstrapping, angel investors, venture capital, crowdfunding. Government support programs (Startup India, Atal Innovation Mission, MSME schemes). Basics of financial statements: profit & loss, balance sheet, cash flow. Startup valuation methods. Managing financial risks.		
Text Books/Reference: 1. Thomas W. Zimmerer, Norman M. Scarborough — *"Essentials of Entrepreneurship and Small Business Management"*, Pearson Education. 2. Nandan H. — *"Fundamentals of Entrepreneurship"*, PHI Learning Pvt. Ltd. 3. Hisrich, Peters, Shepherd — *"Entrepreneurship"*, McGraw-Hill Education.		

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HS4751	MANAGEMENT PRINCIPLES AND PRACTICES	L-T-P-C (2-0-2-3)

Foundations of Management, Managerial Skills and Management function, Scientific Approach to Management Theory, Administrative Management Theory, Human Relations Theory of Management. Leadership styles & motivational theories, Overview of Human Resource Management

Marketing Management and Basics of Strategy, Competitive Advantage - Michael Porter Strategic Forces.

Operation management, productivity & work study, operation strategy.

Project management: project planning & feasibility analysis, project scheduling methods.

Change Management, Globalizations, Ethics in management, Entrepreneurship, Sustainable development, SDGs, Environmentally Sustainable Governance.

Textbooks/Reference

1. L M Prasad, *Principles and Practice of Management*, Sultan Chand & Sons, 2024
2. S.C. Sharma and T. R. Banga, *Industrial Engineering and Management*, Khanna Publishing, 2022
3. Neeru Vasishth, and Vibhuti Vasishth, Principles of Management, Taxmann's Publications, 2022

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HS4752	SOFT SKILLS	L-T-P-C (3-0-0-3)

Soft skills: Meaning and difference between soft skills and hard skills, its importance in both personal and professional life, Interpersonal skills and intrapersonal skills.

Interview Tips: What is an interview? Reasons for success in an interview, Reasons for its failure, commonly asked interview questions, and types of interviews. Importance of Researching the prospective workplace.

Body Language: Definition, types of body language, appropriate use of body language and its importance.

Emotional Intelligence: Definition, and Importance, Theoretical framework of Daniel Goleman

Personality Development: Definition, different aspects of personality, types of personality, and its importance.

Public Speaking Skills: Definition, how to develop public speaking skills, Presentation and the art of public speaking skills.

Confidence Building: What is confidence: How to develop confidence from within: Its importance in life.

Group Discussion: Definition, its ideal size, group behaviour, developing leadership quality, and its importance. Dos and Don'ts of group discussion and debating.

CV & Resume: Definition. Features of a good resume, difference between a CV and Resume, Business letter writing: its importance, formal and the characteristics of a good business letter.

Text Books/ References

1. Mohan, K and Banerji, Meera. *Developing Communication Skills*, New Delhi, Trinity Press (2015)
2. Thorpe, E and Thorpe, S. *Objective English* 6th Edition Ed. New Delhi (2016)
3. Raman and Sharma. *Technical Communication.* Oxford Publication, London, 2004.
4. S.P. Dhanavel. *English and Soft Skills*. Orient Blackswan, 2010.
5. Daniel, Jones. *An Outline of English Phonetics.* Cambridge University Press, 1976.

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VALUE ADDED COURSES (VAC)

HS129X	PROFESSIONAL ETHICS	L-T-P-C (2-0-0-2)

Basic Ethical Principles, Morals, Values and Ethics, Integrity, Work Ethics, Honesty, Courage, Empathy, Utilitarianism, Deontology, variety of moral issues; types of inquiry- moral dilemmas- moral autonomy- Kohlberg's theory- Gilligan's theory- consensus and controversy.

Personal ethics and Professional Ethics, Models of professional roles- theories about right action- self-interest, customs and religion; uses of ethical theories, valuing time- Cooperation- commitment.

Professional practices in Engineering, Norms of Professional Conduct, Engineering as experimentation- engineers as responsible experimenters- code of ethics.

Safety and risk, risk benefit analysis and reducing risk- the Three Mile Island and Chernobyl case studies.

Multinational corporations, environmental ethics, computer ethics, Working Skills and Social Skills for Professional Success.

Textbooks/ References:

1. R Subramanian, *Professional Ethics*, Oxford University Press, 2017.
2. S Ramachandran, Bikash Kumar Thakur, and K Pandian, *Professional Ethics in Engineering*, Airwalk Publications, 2016
3. Ethics in Engineering Practice & Research, Caroline Whitbeck, 2e, Cambridge University Press 2015.

HS129X	INDIAN KNOWLEDGE SYSTEM	L-T-P-C (2-0-0-2)

Introduction to Indian Knowledge System: Definitions and Scope, Six Schools of Indian Philosophy (Darshanas), Holistic Approach: Knowledge and Life, Knowledge Creation in India: Shruti, Smriti, Itihasa, Purana, etc.

Mathematics and Astronomy: Ancient Indian Mathematics- Sulbasutras, Aryabhata, Brahmagupta, Zero and Decimal System, Astronomy- Vedanga Jyotisha, Contributions of Bhaskaracharya, Concept of Time, Calendar Systems

Sciences and Technology in Ancient India: Metallurgy- Iron Pillar, Zinc Distillation, Wootz Steel, Medicine and Health Sciences- Ayurveda, Sushruta and Charaka Samhitas, Water Management and Agriculture- Irrigation Systems, Traditional Techniques, Environmental Wisdom in Indian Practices

Engineering, Architecture, Urban Planning and Economy: Town Planning of Harappa and Mohenjo-Daro, Temple Architecture- Nagara, Dravida, Vesara Styles, Civil Engineering- Step-wells (Baolis), Bridge Building Techniques, Arthashastra of Kautilya- Economics and Political Administration.

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Textbooks/ References

1. Kapil Kapoor and Awadhesh Kumar Singh, *Indian Knowledge System*, D.K. Print World Ltd; First Edition (15 October 2005)
2. Amit Jha, *Traditional Knowledge System in India*, Atlantic Publishers

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