

4 year Bachelor of Business Administration (BBA) in Technology Management

Department of Business and Technology Management (BTM)

The Department of Business and Technology Management (BTM) is the newest department of the Islamic University of Technology (IUT) with an annual intake of 90 undergraduate students. It offers students a unique hands-on experience in state-of-the-art laboratories and instruction from well qualified and dedicated faculty. The department will ensure close interaction between students and faculty to extract the best out of the students. It will also try to maintain continuous interactions with different multinational companies in the field of accounting, management, human resource, economics and technology which will give an added impetus to the students to acquire strong theoretical foundation and outstanding practical experience.

Bachelor of Business Administration in Technology Management

Program Description

The Bachelor of Business Administration in Technology Management comprises of four years of study consisting of eight consecutive semesters of sixteen weeks duration each. The course curricula contain business and technology management of high level as well as components for hands-on-experience to produce BBA graduates of international standard with technological know-how having relevance to the development needs of the Member States. Specifically, the curriculum focuses on an array of topics including accounting, marketing, human resource, management and technology. As these topics require a strong background in mathematics and commerce, a number of courses on Mathematics and Commerce have been included in the syllabus. Moreover, to make the syllabus a balanced and complete one, courses on Social science, Islamic history, Programming, and Communications skill development have been incorporated. After completion of six semesters, the students will undergo an internship program which will enhance their knowledge in industry level. The course curricula are under constant scrutiny and review and continuously updated to meet the current needs and requirements. The levels and contents are always kept at international standard.

Proposed courses and year wise distribution

Course Structure

Course Category	No. of Courses	Credit per Course	Total Credits
General Education Courses	05	3	15
Allied Courses	05	3	15
Business Core Courses	21	3	63
Technology Courses	10	3	30
Technology Courses Labs	09	0.75	6.75
Technology Management Elective	02	3	06
Elective from Pool	02	3	06
Internship	01	9	09
Total			150.75

General Education Courses (5)

Compulsory (3):

Course no.	Course title
Hum 4163	Business English
Hum 4161	Sociology
Hum 4863	Science, Technology and Islam

Electives (2):

Course no.	Course title
Hum 4165/4175/4185/4195	Foreign Language (French, German, Mandarin, Spanish)
Hum 4865	Economics of Geography and Environment
Hum 4167	Physical Sciences
Hum 4169	Biological Sciences
Hum 4461	Philosophy
Hum 4171	History
Hum 4561	Psychology
Hum 4861	Business Ethics and Leadership

Hum 4163: Business English

Common mistakes in English; writing techniques; writing practice in the form of paragraph; letter, report and summary writing; basic principles of effective listening; guidelines for effective speaking; basic rules of pronunciation, conversational fillers, social expressions, debate; review of basic grammar; rules of effective speaking.

Hum 4161: Sociology

This course develops the perspective, concepts and methodologies needed for objective, analytical thinking about human interaction. Relationships are explored in terms of the development of the self through interaction, basic types of social organization, collective behavior, types of institutions, and aspects of the total social system such as social change and population phenomena.

Hum 4863: Science, Technology and Islam

Definition: Science and Technology; Relation between science and technology; Development of science and technology till date; Islam, concept, origin and examples of main religions & their tenets; Comparative study of Islam, Christianity, Judaism, Hinduism and Buddhism; Relation between science and technology and Islam; Science and technology in different religions; Creation of the universe, Scientific approach the Big Bang Theory of primordial Ball; Approach through different religions, Islamic-Kun-Faya-Kun Concept; Scientific indications in the Holy Quran; Impact of science, technology and religion on society and social development; Contributions of Islamic civilization; Contributions of Western Civilization; Islam and the West.

Electives

Hum 4165/4175/4185/4195: Foreign Language (French, German, Mandarin, Spanish)

The course description is not provided, since the faculty concerned is likely to follow individual techniques as content. It is expected that after taking this course the student will be able to understand and communicate at the basic level of the language. The course can be taken at specialized centers such as the Institute of Modern languages or the cultural centers of the respective foreign missions.

Hum 4865: Economics of Geography and Environment

This course is designed to develop an understanding of the philosophy of geography. The students will be made to understand how geography is unique in bridging the social sciences with the earth sciences. This is possible through its understanding of the dynamic rule of cultures, societies, and economies (human geography) and its understanding of physical landscapes and environmental processes (physical geography).

Hum 4167: Physical Science

This course is designed to give a basic understanding of Physics and chemistry. Topics in physics: Fundamentals of mechanics, vector and forces; Kinematics, conservation laws and gravitation; Sound, light, diffraction, and interference; Electric fields, potentials, magnetic fields; Atomic and nuclear physics. Topics in chemistry: Nature of atoms and molecules; Valence and periodic tables; Chemical bonds, acids, and base; Elementary stereo-chemistry, optical isomerism; Functional groups, structure determination; Reactions of alkenes and alkynes.

Hum 4169: Biological Sciences

The course is designed to give an understanding of the basic concepts and principles of biological sciences. Topics include: Origin of life, prokaryotic and eukaryotic cell structure and functions; Energy capture and use. Nutrition and metabolism; Basic human anatomy and physiology; Plants and their classification; Vascular plants; Heredity and evolution; Ecosystem and ecological interaction.

Hum 4461: Philosophy

In this course, attention is given to the purposes and benefits of studying philosophy. Students will be introduced to various types of philosophical questions and problems and to some of the areas of philosophy that deal with these questions — for example, epistemology (theory of knowledge), ethics (foundations of morality), metaphysics (theories of the nature of existence), logic (principles of reasoning). Students will also become acquainted with some of the main methods of philosophical inquiry, such as Socratic dialogue of method, inquiry through the use of myth or anecdote, and textual analysis.

Hum 4171: History

This course covers six major dimensions of history of civilization and will cover primitive civilization, classical thought, late medieval and renaissance, pre cold war era, post-cold war period, and history of Bengal.

Hum 4561: Psychology

This introductory course provides an overview of the origins, growth, content and applications of psychology, including the application of the scientific method to the following topics : research methodology; basic statistics; theories of physical, cognitive, moral and emotional development; sensation; perception; learning; motivation; intelligence; memory; personality; coping processes; abnormality; adjustment; and the individual in small groups and pluralistic society.

Hum 4861: Business Ethics and Leadership

This course explores the influence of communication on ethical leadership in organization life. It discusses the applications of pertinent research and theories of communication, leadership, and ethics in complex and challenging organizing contexts. The course cuts across multiple levels of communications, different communication channels, and the use of diverse communication media and technology.

Allied Courses (5)

BTM 4209	Micro Economics
BTM 4403	Macro Economics
Math 4401	Business Statistics
Math 4103	Mathematics I
Math 4301	Mathematics II

BTM 4209: Micro Economics

The purpose of microeconomics is to develop the students' skill in the systematic analysis of the economic aspects of business decisions and to acquaint them with some relevant analytical methods and concepts. The course covers introduction to Micro Economics; The basics of supply and demand; Utility approach to consumer behavior; Theory of production and cost; Profit maximization and competitiveness; Market structure and theory of the firm; Factor inputs; Externalities and public goods.

BTM 4403: Macro Economics

This course introduces students to fundamental economic concepts such as scarcity and opportunity costs. The course includes national income; Computation of National Income and product; Theory of income determination; Aggregate supply and demand models; Savings, consumption and investment; Employment; Theory of money and inflation; Monetary and fiscal policy, an overview of economic fluctuations and to highlight the dynamics of unemployment, inflation, and economic growth.

Math 4461: Business Statistics

The course is designed to equip the students with statistical tools and concepts to be used in the business decision processes. Methods of descriptive and inferential statistics are covered that include measure of central tendency and dispersion, probability distributions, hypothesis testing and their applications in the management decision process, correlation and regression analysis, and basics of non-parametric statistics. Survey methods and sample designs are also discussed.

Math 4161: Mathematics I

The course is designed to equip the students with mathematical tools and concepts to be used in the business decision processes. It includes elements of algebra, introduction and application of Number Fields, Linear and Non-linear inequalities, Functions, Set theory, Logarithm limit. Two-dimensional co-ordinate geometry: Change of axes, Transformation of co-ordinates, Simplifications of equation of curves, Matrix: Inverse of a matrix, Rank of matrix, Elementary transformations. Solution of simultaneous equations by using matrix. Eigen value and Eigenvectors. Introduction to linear programming. Introduction to Probability: Counting and Combinatorics, Axiomatic Probability, Conditional Probability and Independence, Random Variables.

Math 4361: Mathematics II

The course is designed to equip the students with mathematical tools and concepts to be used in the business decision processes. It includes differential calculus: Limit, continuity and differentiability of functions. Successive differentiation. Leibnitz theorem. Taylor and Maclaurin theorem, expansion of functions in series. Indeterminate forms. Partial differentiation. Determination of maximum and minimum of functions with applications. Integral Calculus: Integration by the method of substitution. Integration by parts. Integration by successive reduction. Standard integrals. Definite integrals, its properties and use in summing series. Determination of area under a curve. Numerical Analysis: Solution of polynomial equation and equation involving transcendental functions. Newton's forward and backward interpolation formulas. Runge-Kutta method.

Business Core courses (21)

BTM 4103	Financial Accounting I
BTM 4201	Financial Accounting II
BTM 4301	Management Accounting
BTM 4203	Business Communication
BTM 4503	Financial Management I
BTM 4601	Financial Management II
BTM 4303	Human Resources Management
BTM 4501	Research Methods
BTM 4609	Management Information Systems
BTM 4401	Legal Environment of Business
BTM 4605	International Business Environment
BTM 4205	Principles of Marketing
BTM 4505	Marketing Management
BTM 4603	Operations Management
BTM 4101	Principles of Management

BTM 4207	Organizational Behavior
BTM 4705	Entrepreneurship
BTM 4701	Operations Research
BTM 4703	Quality Management
BTM 4801	Project Management
BTM 4803	Technology Management

BTM 4103: Financial Accounting I

This is a basic course and deals with functional of bookkeeping and accounting. The course covers the basic accounting concepts, double-entry system of bookkeeping, recording of transaction, preparation of trial balance, treatment of adjustment entries, preparation of financial statements, internal control and checking, accounting principles, methods inventory valuation, methods of depreciation charge, acquisition, disposal, and exchange of long term assets.

BTM 4201: Financial Accounting II

This course begins with a rigorous review of the concepts, principles, measurements and accounting processes, acquired at the introductory level. This foundation is subsequently built upon on topic specific bases; accounting for current assets, current liabilities, long term assets, intangible assets, long term liabilities, and owner's equity. This course also covers income and expense recognition applications in diverse and complex business situations, implication in tax expense through different accounting practices. These topics are continuously incorporated into an increasingly complex accounting module with the culmination (preparation, presentation and disclosures) of the financial statements (Income, Balance Sheet, Retained Earnings, and Statement of Cash Flows). The strengths, limitations and utility of the GAAP accounting module are discussed with each topic and its application.

BTM 4301: Management Accounting

The course is a sequence to Financial Accounting and deals with tools and techniques of internal use of accounting for management decision viz., concept of cost element, pricing of cost and cost centers, cost classification, cost behavior, variable and absorption of costing, basics of job order and process costing, cost volume profit analysis, budgeting and budgetary control, variance analysis, flexible budget, relevance cost items in decision making, segment reporting and transfer pricing.

BTM 4203: Business Communication

The course provides a thorough understanding of the communication process and dynamics in business setting and emphasizes written as well as verbal communication. The course is designed to help the students in learning the techniques and acquiring the skills needed to communicate effectively in management. The course deals with Basic English in the practices of communication. The course introduces various techniques of effective communication through business letters, reports and other media from an integral part of the course.

BTM 4503: Financial Management I

This course covers basic concepts and analytical tools used in business finance. Topics include: Basic principles of finance, Analysis of risk-return, cost of capital, analysis of time value of money, elementary capital budgeting, working capital management, etc.

BTM 4601: Financial Management II

This course covers the nature and scope of financial management, the objectives of financial management and need for management of working as well as fixed capital, tools for quantitative analysis of prior financial position, techniques of forecasting, the need for funds, techniques of capital budgeting and related concepts, capital structure and rationing, dividend policies, etc.

BTM 4303: Human Resources Management

This course deals with management of human resources in organization, viz. the basic functions of human resource management, sources of personnel, methods of selection, recruitment, developing and motivating the work force, procedures of primary record keeping, compensation, salary and wage administration, promotion, training appraisal, health safety, moral discipline, employee benefits, etc.

BTM 4501: Research Methods

This course aims to expose participants to qualitative and quantitative data gathering, processing, analysis and presentation methods and skills. Students are exposed to such skills through a hands-on experience with qualitative and quantitative methods through writing research proposals and through the writing of analytical research report on collected data.

BTM 4609: Management Information Systems

This course includes information system concepts and terminology, current issues and trends in IT, including e-Business, e-Commerce, the impact of technology on organizations, managers and users, the ethical, social and global issues, examples of IT applications including ERP, decision support systems, and information systems in business functional areas of marketing, finance, production and human resources.

BTM 4401: Legal Environment of Business

The course includes the study of the nature of the legal system in which society functions, including basic business agreements, business entities and government regulation. Law of contract: Agreement; Consideration; Misrepresentation; Void and voidable contracts; Sale of goods: Discharge; Remedies; Law of agencies; Bailment and pledge; Law of carriage of goods; Negotiable Instruments Act; Insurance law; Company law. It also includes Labor law and acts concerning payment of wages, employment and non-employment in factories, shops and establishments; Workers' compensation. Industrial disputes, trade unions and CBA, labor courts.

BTM 4605: Internal Business Environment

Introduction to the field of international business: national economic and cultural differences; international trade policies and institutions; foreign direct investment; regional economic integration; international monetary system; global competition; current international business trends and developments. It further includes trade theory and policy sources of international competitiveness in trade; tools of trade protection; the GATT, the Uruguay Round and the WTO; Foreign direct investment motives and foreign direct investment; motives for international alliances; policies for restricting/promoting foreign direct investment; national business systems; influence and national cultural values on business organization; business government relations, and policy choices.

BTM 4205: Principles of Marketing

This course focuses mainly on the topics like Introduction to Marketing; the marketing Philosophy; The Marketing Concepts; Marketing Environments; Elements of Marketing Mix; Market Segmentation and Positioning; Product Decisions; Pricing Decisions; Marketing Ethics; etc.

BTM 4505: Marketing Management

This course is designed to introduce the students to the basic elements of marketing management process. It helps the students to identify and solve many business problems by using a marketing perspective. This course will not turn the students into marketing wizards, but it will give them a very broad understanding of what marketing is all about and the vital role that it plays in organizations.

BTM 4603: Operations Management

Topics covered include Introduction to production function; manufacturing policy decisions; production system; plant location and factory layout; production planning and control; product design and development; time and motion study; material handling and transportation; quality control inspection; statistical quality control; purchasing and inventory control; maintenance management; production control; systems approach in production management.

BTM 4101: Principles of Management

This course includes the topics of Meaning and importance of management; Evolution of management thought; managerial decision making; environmental impact on management; corporate social responsibility; planning; setting objectives; implementing plans; organizing; organization design; managing change; human resource management; directing; motivation; leadership; managing work groups; controlling; control principles; processes and problems; managing a changing environment. The major objective of the course is to provide students with an opportunity to enhance their understanding of large and small organizational systems.

BTM 4207: Organizational Behavior

The course deals with individual and group behavior models in the context of different organizations and social systems. It deals with the basic concepts of motivation, perception, learning and analysis of human behavior, individual differences and job satisfaction attitude changes, group process, team work, role theory, power and authority along with the analysis of small group behavior, group dynamics, leadership, decision, development of organizations and the influence of groups.

BTM 4705: Entrepreneurship

The course includes Entrepreneurship theory; Entrepreneurial successes and impact of environmental variables; new venture creation process - opportunity identification and assessment, entrepreneurial start-up strategies, the business plan and business launch.

BTM 4701: Operations Research

Introduction to Operation research; Review of Probability concepts; Conditional and expected value; Value of Information; Utility as the basis for Decision Making; Decision Theory; Game Theory; Linear Programming: The Simplex method, the Dual Problem and the Transportation problem; Waiting line and simulation; Practical application.

BTM 4703: Quality Management

Meaning and measurement of quality; concept of total quality management (TQM); Management approaches, concepts and techniques for the monitoring and improvement of product and process quality; developing standards for quality of product, process, and service; developing a corporate orientation for TQM.

BTM 4801: Project Management

The course deals with project identification, preparation, appraisal, management of implementation and post project evaluation. Basic techniques like network analysis, organizing and control aspects of project implementation in relation to resources, time scale and information processing are emphasized. Feasibility study of a business project is a major part of the course. This course acquaints the students with latest available project management software.

BTM 4803: Technology Management

Technology management is an introduction to the management of firms in high-technology industries such as software development and biotechnology research. The course uses cases, readings, and exercises to understand the issues involved in motivating and managing knowledge workers, organizing for innovation, and decision making in fast-paced business environments.

Technology Courses (Theory: 10 + Lab: 09)

Course No.	Course Title
EEE 4161	Electrical and Electronic Technology I
EEE 4162	Electrical and Electronic Technology I Lab
EEE 4261	Electrical and Electronic Technology II
EEE 4261	Electrical and Electronic Technology II Lab
MCE 4361	Mechanical Technology I
MCE 4361	Mechanical Technology I Lab
MCE 4461	Mechanical Technology II
MCE 4462	Mechanical Technology II Lab
CSE 4361	Computer Science and Technology I
CSE 4362	Computer Science and Technology I Lab
CSE 4461	Computer Science and Technology II
CSE 4462	Computer Science and Technology II Lab
CSE 4561	Computer Science and Technology III
CSE 4562	Computer Science and Technology III Lab
CEE 4361	Civil and Environmental Technology I
CEE 4362	Civil and Environmental Technology I Lab
CEE 4461	Civil and Environmental Technology II
CEE 4462	Civil and Environmental Technology II Lab
BTM 4661	Textile Technology

EEE 4161 : Electrical and Electronic Technology I

Electrical networks and circuit solution techniques, Delta-wye Transformation, Circuit Theorems. Basic principle of generation of Alternating and Direct Current. Introduction to Phasor Algebra as applied to AC circuit analysis. Solution of AC circuits: RLC circuits- series and parallel Resonances, AC power analysis. Ampere's circuital law, B-H curve, hysteresis and eddy current losses, Introduction to magnetic circuits.

Three phase AC Circuits: Three phase EMF generation, delta and Y – connections, line and phase quantities, solution of three phase circuits, balanced supply voltage and balanced load, phasor diagram, measurement of power in three phase circuits.

DC Machines: Construction, EMF and Torque equations, Characteristics of DC generators and motors,

Induction Motor: The revolving magnetic field, principle of operation, ratings, equivalent circuit, Torque-speed characteristics, speed control.

Synchronous Machines: Principle of operation, types, performances and characteristics.

Different types of machines.

Transformers: Construction, EMF equation, ratings, phasor diagram on no load and full load, equivalent circuit, regulation and efficiency calculations, open and short circuit tests, auto-transformers.

EEE 4162: Electrical and Electronic Technology I Lab.

Experiments based on 4161.

EEE 4261 :Electrical and Electronic Technology II

Semiconductors, Junction Diode and characteristics, Bipolar transistor characteristics, Small signal low frequency h parameter model, Amplifiers, introduction to oscillators, differential amplifiers, operational amplifiers,

Introduction to JFET, MOSFET, PMOS, NMOS and CMOS: biasing and application in switching circuits. SCR, TRIAC, DIAC, PJT, CRT: characteristics and applications. Introduction to rectifiers, active filters, regulated power supply, stabilizer.

Logic gates, Logic Families: TTL, ECL, IIL and CMOS logic with operation details, Electronic circuits for flip-flops, Counters and register, Memory systems, PLAs, A/D and D/A converters with applications.

EEE 4261 : Electrical Engineering II Lab

Experiments based on **EEE 4261**.

MCE 4361: Mechanical Technology I

Study of fuels; Thermodynamic system, state, process and cycle. First and Second Laws of thermodynamics; Steam generating units with accessories and mountings; Study of steam generators and steam turbines.

Introduction to internal combustion engines and their cycles; Study of SI engines, CI engines and gas turbines with their accessories.

Refrigeration and air conditioning: their applications; Study of different refrigeration methods; Refrigerants; Refrigeration equipment: compressors, condensers, evaporators, expansion devices, other control and safety devices; Psychrometrics; Study of air conditioning systems with their accessories.

Types of fluid machinery; Study of impulse and reaction turbines: Pelton wheel and Kaplan turbine; Study of centrifugal and axial flow machines: pumps, fans, blowers and compressors; Study of reciprocating pumps.

MCE 4362 : Mechanical Technology I Lab

Experiments based on **MCE 4361**

MCE 4461: Mechanical Technology II

Basic principles of measurements; Characterization and behavior of typical measuring systems; Different types of sensing elements; Proximity sensors; Measuring, transmission and recording methods; Instruments for measuring of displacement, pressure, temperature, heat flux, flow, motion and vibrations, force, torque and strain; Data acquisition and processing.

Control & Automation, Classification of control systems, Hydraulic Systems: Fluid Power Actuators; Hydrostatic Transmission. Control Components in Hydraulic System; Hydraulic Circuit Design and Analysis; Hydraulic Components, Hydraulic Cylinder Sequencing Circuit, Automatic Cylinder Reciprocating Circuit, Cylinder Synchronizing Circuit, Fail Safe Circuit, Speed Control of a Hydraulic Motor, Hydraulic Motor Braking System, Accumulators and Accumulators Circuits. Pneumatic Systems, Sizing Pneumatic Systems, Hydraulic and Pneumatic Logic Control, Moving Part Logic Systems. Electro pneumatics - Electrical signals, Signal flow in control system, Comparison between pneumatic and electro-pneumatic control systems, components of electrical signal control, Sensors for displacement and pressure, proximity sensors capacitive, inductive, and optical, pressure sensor, Relays & contactors.

Differential Equations from Physical Systems, Laplace and Inverse Laplace transformation, Transfer Function, Block Diagram, and Reduction of Block diagrams.

MCE 4462: Mechanical Technology II Lab

Experiments based on MCE 4461

CSE 4361: Computer Science and Technology I

Introducing Computer Systems, Number Systems, Processing Data, Storing Data, Operating Systems, Networks, Internet Technologies.

Programming Basics: Programming Languages and the Programming Process, Programming Concepts, algorithm and logic.

Introduction to C: Evolution of C, lexical design and basic syntax, token, operator, identifier, simple data types; variables, constants, declarations; block structure, expressions and statements, compound statements, built-in function, I/O functions, control statements, branching, looping, pointers, file processing.

CSE 4362: Computer Science and Technology I Lab

Experiments based on CSE 4361

CSE 4461: Computer Science and Technology II

Overview of Database Management Systems / File Processing Systems, Database System Concepts and Architecture, Data Modeling using Entity-Relationship, Relational Database Model, Normalization, Relational Algebra, Structured Query Language, Transaction & Concurrency, Database Security, Introduction to Data Mining / Data Warehousing, Emerging Applications

CSE 4462: Computer Science and Technology II Lab

Experiments based on CSE 4461

CSE 4561 :Computer Science and Technology III

Information Systems and society. Business Process and Decision Making, Productivity, Innovation, and Strategy, Database and Content Management, Decision Making and Business Intelligence, Competitive Advantage and Business Processes, Hardware, Software and Network, E-commerce, Social Networking, Structure, Governance, and Ethics. Legal aspects of Information Technology.

CSE 4562 :Computer Science and Technology III Lab

Experiments based on **CSE 4561**

CEE 4361: Civil and Environmental Technology I

Mechanical properties of materials, yielding, fracture, elasticity, plasticity, creep, relaxation; Atomic structure and bonding; Crystal and amorphous structures; Brick; Cement; Coarse aggregate and fine aggregate; Mortar; Concrete, mineral admixtures, chemical admixtures, mix design of concrete, fresh and hardened properties of concrete, different types of concrete, shrinkage of concrete, durability of concrete, chloride and carbonation induced corrosion of steel in concrete, condition assessment of concrete structures, non-destructive testing, sustainability, durability, recycling; Paints; Rubber; Plastics; Timber.

CEE 4362: Civil and Environmental Technology IILab

Experiments based on **CEE 4361**

CEE 4461: Civil and Environmental Technology II

Definition, aims and objectives of Environmental Impact Assessment (EIA); Environmental issues in development projects; Initial Environmental Examination (IEE); EIA Methodologies; Impact identification, prediction, analysis and evaluation; Environmental Management Plan (EMP); EIA Guidelines; Organization of EIA; Definition of social impact assessment, aims and objectives, social impact in development project; Impact identification assessment; Key informant interview; Focus group discussion, Case studies.

CEE 4462: Civil and Environmental Technology IIILab

Experiments based on **CEE 4461**

BTM 4661: Textile Technology

Introduction: Textile pipeline, classification of Textile fibres, Cotton, Silk, Wool, Regenerated fibres (viscose, lyocell), Synthesis of polymers, Manufacturing of man-made fibres, Polyester, Nylon. Yarn Manufacturing (spinning): Introduction to spinning, Process flow chart, Detailed study of different stages of spinning, Visit the Yarn Manufacturing lab to study the different m/c, Yarn count and calculating yarn count by various methods. Fabric Manufacturing: Introduction to fabric manufacturing, Flow chart of Weaving, Detailed study of different weaving stages, Visit the Fabric Manufacturing lab to study the different m/c Knitting process. Wet Processing: Introduction to wet processing and the sequence of operation, Detailed study of pre-treatment

stages, dyeing, printing, finishing. Garments Manufacturing: Introduction to apparel manufacturing, Sequence of operation, Study of different stages of garments making.

Technology Management Electives (2)

Course No.	Course Title
BTM 4621	Production Planning and Inventory Control
BTM 4623	Logistics and Supply Chain Management
BTM 4625	Productivity Management
BTM 4627	Enterprise Resource Planning
BTM 4629	Appropriate Technology
BTM 4631	Product and Services Development
BTM 4633	Strategic Operations Management
BTM 4635	Occupational Health and Safety

BTM 4621: Production Planning and Inventory Control

The course is designed to cover production planning, production scheduling, and inventory control decisions in manufacturing and service organizations; Special topics include: Manufacturing resource planning; use of inventory control in buffering manufacturing activities.

BTM 4623: Logistics and Supply Chain Management

Introduction to supply chain management from both analytical and practical perspectives. Stressing a unified approach, the course allows the student to develop a framework for making intelligent decisions within the supply chain. Key logistics functions are covered to include demand planning, procurement, inventory theory and control, transportation planning and execution reverse logistics, and flexible contracting. Concepts explored include postponement, portfolio management, dual sourcing and others. Emphasis is placed on being able to recognize and manage risk, analyze various tradeoffs, and model logistics systems.

BTM 4625: Productivity Management

Concept of productivity; measurement of productivity; long vs. short term productivity; factors in productivity; reasons for low productivity; measure to improve productivity; developing a productivity orientation in the organization; reward-punishment system for productivity enhancement.

BTM 4627: Enterprise Resource Planning

Examines the principles and techniques for planning and managing resource used in a manufacturing facility. Topics include demand management, inventory management, master scheduling, material and capacity planning, and lean/just-in-time manufacturing.

BTM 4629: Appropriate Technology

This course is designed to give students a broad overview of the main topics encompassed by management of technology. It includes the full chain of innovative activities beginning with research and development and extending through production and marketing.

BTM 4631: Product and Service Development

NPD processes, from setting a strategic framework for the development effort through to monitoring post-launch success; methods of marketing research and the use of analytical approaches such as perceptual mapping, benefit segmentation, trends unbundling and morphological analysis; screening and ranking processes to set priorities for development; converting concepts into prototypes; developing strategies and plans for the commercial launch. Some exercises may require flexibility with timing of classes.

BTM 4633: Strategic Operations Management

The course provides unifying framework for analyzing strategic issues in manufacturing and service operations. Analyzes relationships between manufacturing and service companies and their suppliers, customers, and competitors. Also covers decisions in technology, facilities, vertical integration, human resource and other strategic areas. Explore means of completion such as cost, quality and innovativeness. Provides an approach to make operations decisions in the era of outsourcing and globalization.

BTM 4635: Occupational Health and Safety

1. Personal Health and Safety: personal health and safety at home and in the workplace, blood borne virus, hepatitis B, HIV, dermatitis, skin care 2. Personal Safety: emergency first aid treatment, reaction to accidents, reporting of accidents, pro-active procedures when accidents occur, cleaning the accident site, personal safety wear and protective equipment 3. Accidents & Their Effect on Industry, costs of accidents, work accident costs and rates, time lost, work injuries, parts of the body injured on the job, chemical burn injuries, Carpal Tunnel Syndrome Injuries, Drugs and Alcohol in the Workplace 4. Theories of Accidents: (Essay-Select 1 of the following theories), Domino Theory of Accident Causation, Human Factors Theory of Accident Causation, Accident/Incident Theory of Accident Causation, Epidemiological Theory of Accident Causation, Systems Theory of Causation, Combination Theory of Accident Causation 5. WHMIS Workplace Hazardous Material Information System: routes of entry into the body of toxic materials, general safety precautions, cleaning chemical spills, MSDS sheets 6. Falling, Impact, Acceleration and Lifting Hazards: correct lifting techniques, selecting correct lifting procedures in the workplace, safety equipment, safe storage of materials at home and in the workplace, dealing with manual handling 7. Workers Compensation: injuries and workers compensation, workers' compensation

legislation, resolution of workers' compensation disputes 8. Roles of Health and Safety Personnel: the modern health and safety team, health and safety manager, engineers and safety 9. Stress and Safety: workplace stress defined, sources of workplace stress, human reaction to workplace stress, measurement of workplace stress, shift work, stress and safety, improving safety by reducing stress, stress in safety managers, stress and workers compensation 10. Mechanical Hazards and Safeguarding: common mechanical injuries, safeguarding defined, lockout/tag out systems, taking corrective action 11. Heat and Temperature Hazards: the body's response to heat, heat stress and its prevention, overview of cold hazards, preventing cold stress 12. Fire Hazards: sources of fire hazards, fire dangers to humans, detection of fire hazards, reducing fire hazards, development of Fire Safety Standards, fire safety myths, and fire hazards defined 13. Noise and Vibration Hazards: hazards levels and risks, identifying and assessing hazardous noise conditions, noise control strategies, and vibration hazards 14. Preparing for Emergencies: first aid in emergencies, reporting accident 15. Promoting Safety: safety committees 16. Health and Safety Training: rationale for health and safety training 17. Industrial Hygiene: hazards in the workplace, entry points for toxic agents, airborne contaminants, asbestos hazards, hazard recognition, evaluation and control. Source: Georgian College, Canada.

Elective from Pool A/B/C/D/E (2)

Pool A: Accounting

Course No.	Course Title
BTM 4805	Cost Accounting
BTM 4807	Advanced Financial Accounting
BTM 4809	Accounting Theory
BTM 4811	Auditing
BTM 4813	Accounting Information System
BTM 4815	Taxation
BTM 4817	Strategic Management Accounting
BTM 4819	Financial Information Analysis

BTM 4805: Cost Accounting

This is an advanced course dealing with the techniques of costing and the use of cost information for managerial planning and control. It covers: Introduction to Cost Accounting; objectives and importance of cost accounting; cost concepts and cost classification; material costing; store keeping and inventory control; valuation of inventory; labor cost accounting; chargeable expenses; manufacturing and non-manufacturing overheads; job order and batch costing; process costing; activity based costing; standard costs; variance analysis; statement of cost pf production.

BTM 4807: Advanced Financial Accounting

This is an advanced course dealing with the topics like data consignment and joint venture accounts, branch and departmental accounts, hire purchase and installment accounting, lease accounting, accounting for liquidation of companies (insolvency act), financial statement of group of companies, accounting related to insolvency; accounting related to mergers and amalgamation partnership firms accounting and valuation of goodwill.

BTM 4809: Accounting Theory

This course focuses elaborately on accounting conceptual framework, accounting concepts, standard setting measurement and recognition issues, and characteristics of accounting information. Topics and objectives include: objectives of financial reporting, financial statements, and elements of financial statements. Another major part of this course includes detailed of International Accounting Standards (IAS)

BTM 4811: Auditing

The course deals with principles of auditing, auditor's duties and responsibilities, basic auditing techniques, verification and valuation of assets and liabilities, internal checks, internal control and auditor's reports. Auditing standards are also covered in this course. Major parts of this course are: financial audit, cost audit and management audit.

BTM 4813: Accounting Information System

This course is designed to present an understanding of accounting information systems and their role in an accounting environment. Particular attention is paid to transaction cycles and internal control structure. Topics covered include accounting software application, control concepts and procedures, auditing of information systems, internets, intranets, electronic commerce, Accounting Information Systems Security and Auditing, Management Reports and Decision-Making Tools, Data Management Concepts and Electronic Data Interchange (EDI) and the role of information systems.

BTM 4815: Taxation

The course is primarily designed to provide the students with a fundamental understanding of economic effects of taxation on business entities and individuals prevailing in Bangladesh. Different types of tax e.g. income tax, gift tax, wealth tax, direct and indirect tax etc are elaborately covered in this course. At the end of the course, the students are expected to be to: 1) understand the role of taxation in overall economic development of an economy, 2) understand the place of taxation in overall fiscal policy of a government, 3) understand relevant provisions of taxation rules in Bangladesh and 4) independently assess the tax liabilities of corporate and personal entities.

BTM 4817 : Strategic Management Accounting

Through the course the students are expected to learn how to measure and report financial and non-financial information that helps manager to make strategic information and fulfill the goals of an organization. The course includes the topics: pricing, make or buy decisions, re-structuring decision, re-engineering decision, merger decision, transfer pricing corporate performance evaluation, strategic profitability analysis, product like extension marketing mix decisions, accounting information for strategic positioning, strategic cost driver analysis, etc.

BTM 4819: Financial Information Analysis

This course is designed to: 1) develop basic skills in financial statement analysis; 2) teach students to identify the relevant financial data used in variety of decision contexts, such as equity valuation, forecasting firm-level economic variables, distress prediction and credit analysis; 3) helps students appreciate the factors that influence the outcome of financial reporting process, such as the incentives of reporting parties, regulatory rules, and a firm's competitive environment. At the end of the course the students are expected to acquaint with various tools and techniques of financial analysis and to provide them with opportunities to apply these tools and techniques in analyzing financial statements necessary for practical business decisions.

Pool B: Finance

Course No.	Course Title
BTM 4821	Corporate Finance
BTM 4823	Portfolio Management
BTM 4825	Financial Markets and Institutions
BTM 4827	Bank Management
BTM 4829	International Finance
BTM 4831	Financial Derivatives
BTM 4833	Insurance and Risk Management
BTM 4835	Taxation
BTM 4837	Financial Information Analysis

BTM 4821: Corporate Finance

The purpose of this course is to introduce techniques of financial analysis, with emphasis on financial and capital budgeting decision. The main topics covered include (1) the time value of

money and the net present value rule; (2) valuation of bonds and stocks; (3) capital budgeting decisions; (4) uncertainty and the trade-off between risk and return; (5) corporate financing and dividend policy decisions.

BTM 4823: Portfolio Management

The course covers concepts and techniques of portfolio management; topics include: risk diversification evaluating portfolio; portfolio selection; analyzing portfolio performance; examining the pattern of changes in valuation of portfolio performance; capital asset pricing model.

BTM 4825: Financial Markets and Institutions

This course provides students with an understanding of the mechanisms of various financial markets, and institutions such as banks, stock exchanges and brokers. You will develop a critical awareness of the theoretical and practical problems associated with regulating financial markets. It investigates how the market structures potentially cause and mitigate financial risk to market participants and end users. It reviews how financial scandals and crises arise, and how they may be resolved.

BTM 4827: Bank Management

The subject matter of this course is organization and accounting in banks. This is related to the problems of how many banks control their portfolios and how they make it profitable. In the era of globalization, many investment and commercial banks have developed themselves as multinational financial institutions. Also, they invest their assets and hedge their risk globally. This course aims to enhance student's ability to manage banking institutions that have both national and international exposures.

BTM 4829: International Finance

The course focuses on international financial management and international trade. Topics in financial management, viewed primarily from the perspective of managers doing business overseas, include export/import financing, the management of foreign exchange exposure, foreign direct investment decisions and multinational capital budgeting. Other topics include trends in international banking, the balance of payments, the determination of exchange rates and the LDC debt crisis. It examines the challenges and problems faced by firms planning on doing business in western Europe, Eastern Europe, the Far East, Mexico, Canada, South America and Africa during the next decade.

BTM 4831: Financial Derivatives

The purpose of the course is to analyze the derivatives securities that are commonly encountered in practice. It examines the theoretical framework within which derivative securities can be valued. The course also highlights the alternative hedging strategies for financial institutions and portfolio managers. Options, futures, forward contracts, swaps etc are the main topics of this course.

BTM 4833: Insurance and Risk management

This course introduces the principles of risk management and insurance. The students acquire a fundamental knowledge of risk exposures, the management of pure risk, and the insurance mechanism. Another objective is to make the students a more informed consumer of insurance products when they conduct both business and personal matters.

BTM 4835: Taxation

The course is primarily designed to provide the students with a fundamental understanding of economic effects of taxation on business entities and individuals prevailing in Bangladesh. Different types of tax e.g. income tax, gift tax, wealth tax, direct and indirect tax etc are elaborately covered in this course. At the end of the course, the students are expected to be able to: i) understand the role of taxation in overall fiscal policy of a government, ii) understand the place of taxation overall fiscal policy of a government, iii) understand relevant provision of taxation rules in Bangladesh and iv) independently assess the tax liabilities of corporate and personal entities.

BTM 4837: Financial Information Analysis

This course is designed to: 1) develop basic skills in financial statement analysis; 2) teach students to identify the relevant financial data used in a variety of decision contexts, such as equity valuation, forecasting firm-level economic variables, distress prediction and credit analysis; 3) help students appreciate for the factors that influence the outcome of the financial reporting process, such as the incentives of reporting parties, regulatory rules, and a firm's competitive environment. At the end of the course, the students are expected to acquaint with various tools and techniques of financial analysis and to provide them with opportunities to apply these tools and techniques in analyzing financial statements necessary for practical business decisions.

Pool C: Human Resources Management (HRM)

Course No.	Course Title
BTM 4841	Human Resource Planning
BTM 4843	Training and Development
BTM 4845	Labor- Management Relations
BTM 4847	Compensation Theory and Administration
BTM 4849	Negotiation and Conflict Management
BTM 4851	Performance Management
BTM 4853	Wages and Labor Market
BTM 4855	Human Resource Information Systems
BTM 4857	Strategic Human Resources Management

BTM 4841: Human Resource Planning

Importance of Man power planning; issues in Human Resource Planning; Planning model; Determination of Future Human Resource Requirements; Determination of Future Human Resource Availability; Assessing Gaps and objectives; Action Planning to match the gaps; Human Resource Information system; Manpower planning as the basis of recruitment selection; Training and phasing out; A system approach to Annual Manpower Planning Exercise.

BTM 4843: Training and Development

Training and Development function; Strategy and training; Organizations of the training department; Training needs assessment; Learning and behavior; Designing of training programs; Evaluation of Training programs in organization developments; Theory and practice of career development; Developing career structures; Identifying organizational needs; Institutionalizing the career development system; Evaluating the systems.

BTM 4845: Labor-Management Relations

This is a specialized course which starts with Labor-management relations at the firm level; Evolution of Labor-management relations; Characteristics and contemporary issues; Emphasis on analysis of the labor-management relationship through reference to theory and research on collective action; bargaining behavior and conflict resolution.

BTM 4847: Compensation Theory and Administration

Compensation Theory; Job analysis; Preparation of job description; Fundamentals of job evaluation; Methods of compensation including incentives; Fringe benefits; Determination of wage levels; wage structures and individual wages; analysis of the impact of wages on individual attitudes and decisions to participate and perform in an organization.

BTM 4849: Negotiation and Conflict Management

Overview and definition; Conflict management styles; Problem solving approaches; Negotiation strategizing, training and planning; Nature of negotiation; Strategy and tactics of distributive bargaining; Strategy and tactics of integrative negotiation; perception, cognition and communication; Identifying and using negotiation leverage; Global negotiations in social context; Managing negotiation; Ethics in negotiation

BTM 4851: Performance Management

Performance Management Cycle; Planning, Coaching, Reviewing, Rewarding, Improving; Performance Planning: Using job analysis, Developing performance standard, Communicating performance expectation; Coaching Performance: Establishing trustful relationships, Identifying causes of poor performance; Reviewing Performance: Different approaches to performance appraisal; Rewarding Performance: Compensation management, Performance pay, Knowledge-based pay; Improving Performance: Mentoring, Career development.

BTM 4853: Wages and Labor Market

Demand for labor; Quasi-fixed labor costs; Supply of labor; Labor unions and collective bargaining; Household production models; Investment in human capital; Education and training; Earnings differentials; Compensation differentials; Discrimination; Compensation structure; Unemployment and inflation and labor market issues in Bangladesh.

BTM 4855: Human Resource Information Systems

Human Resource Information System (HRIS) Basics, Human resource policies and practices enabled by HRIS, Internet recruiting and applicant tracking, e-learning and other forms of technology-based training, Telecommuting and the Virtual Workplace, Global work groups, Human Resources for Knowledge Workers.

BTM 4857: Strategic Human Resources Management

Definition and overview of strategy; The role of human resource management in the strategic process; Preparation and implementation of human resource strategies; relationship between strategic human resource management and human resource planning; human resource management impact on the process of organizational change; role of HR practitioners in mergers and acquisitions; Behavioral change; Recruitment and retention strategies; re-sourcing strategies.

Pool D: Information Systems

Course No.	Course Title
BTM 4861	Computer Programming
BTM 4863	Systems Analysis
BTM 4865	Database Management
BTM 4867	E-Commerce
BTM 4869	Decision Support Systems
BTM 4871	Information Technology Management
BTM 4873	Information Systems Strategy

BTM 4861: Computer Programming

This course is designed to provide students the opportunity to examine visual basic programming, learn how to create windows applications using the Microsoft Visual Basic, modify existing windows applications with VB for applications, and understand the practical application of VB features. Additionally, the course is concerned with programming logic, documentation, design choices, and the Systems Development Life Cycle.

BTM 4863: Systems Analysis

This course is designed to provide students with a basic understanding of how to develop and implement computer-based management information systems. Students will be introduced to a variety of system development concepts and techniques. These can include traditional approaches such as top-down or structured analysis, problem definition, feasibility analysis, enterprise analysis, and data flow diagrams, as well as interactive and iterative development approaches such as prototyping and object-oriented concepts and techniques. The course also explores topics, related to successful implementation of systems such as testing strategies, project management and user oriented design and software maintenance.

BTM 4865: Database Management

The course covers theories and models in system-centered approaches to information retrieval and database management. Information retrieval and database management systems include text and multimedia databases, web search engines and digital libraries. Issues in system design, development and evaluation, and tools for searching, retrieval, user interfaces, and usability.

BTM 4867: E-Commerce

This course provides a comprehensive presentation of the concepts, technologies, and tools necessary for designing and implementing information systems that support electronic commerce (e-commerce) initiatives. The primary objective is to familiarize students with the current literature related to e-commerce including networking basics, infrastructure architectures, security, and front T end/back-end integration, development tools, emerging business models, marketing tactics, online investing, and designing interactive Web sites to enhance usability.

BTM 4869: Decision Support Systems

This course covers fundamental concepts of information as well as decision support systems. The course focuses on information systems terminologies, decision-making process, data management, access, and visualizations, constructing a Decision Support Systems. The course also briefly discusses Executive Information Systems and networks role in a Decision Support System.

BTM 4871: Information Technology Management

This course is designed to provide students with a basic understanding of how to develop and implement computer-based management information systems. Students are introduced to a variety of system development concepts and techniques. These can include traditional approaches such as top-down or structured analysis, problem definition, feasibility analysis, enterprise analysis, and data flow diagrams, as well as interactive and iterative development approaches such as prototyping and object-oriented concepts and techniques. The course also explores topics related to successful implementation of systems such as testing strategies, project management, and user oriented design and software maintenance. Students will work in teams to analyze, design, and build a small information system.

BTM 4873: Information Systems Strategy

This course prepares students to develop an understanding and appreciation for the (i) impact of IT on the economy and business performance, (ii) emerging public technology infrastructure and its role in the modern organization, (iii) electronic business applications and organizational/market transformation, and (iv) technology driven business models and strategies.

Pool E: Marketing

Course No.	Course Title
BTM 4881	Basic Marketing Research
BTM 4883	Consumer Behavior
BTM 4885	Integrated Marketing Communication
BTM 4887	Selling and Salesmanship
BTM 4889	International Marketing
BTM 4891	Brand Management
BTM 4893	Channel Management
BTM 4895	Retail Management
BTM 4897	Business to Business Marketing
BTM 4899	Strategic Marketing

BTM 4881: Basic Marketing Research

This course is designed to train the students in using the tools and techniques for developing an analytical framework of marketing, developing solutions to marketing problems, formulations of marketing strategy, introductions to research techniques in marketing, review of sources of marketing information, collection, tabulation, analysis and interpretation of marketing information.

BTM 4889: Consumer Behavior

This course provides a framework for analyzing consumer behavior. Topics covered are: Marketing concept and consumer behavior; Utility and need satisfaction; Communicating with consumer; Consumer adoption and diffusion process, Repurchase, purchase and post purchase behavior; Product involvement and type of purchase decision; Understanding consumer; Demographic, Social and Psychographic factors; influences of external factors; Model of human behavior, Classification of situation influencing consumer behavior; Consumer decision process; Consumer movement and consumerism; institutional buying behavior; Consumer and price; Consumer and institutional decision; Household, sales person and advertising.

BTM 4885: Integrated Marketing Communication

A management concept that is designed to make all aspects of marketing communication such as advertising, sales promotion, public relations, and direct marketing work together as a unified force, rather than permitting each to work in isolation. This course deals with marketing products that have information and/or entertainment content. The products are of the sort offered by media companies and may be delivered via print, television, radio, film, Internet, direct mail, or live-event channels.

BTM 4887: Selling and Salesmanship

Topics include: Importance of selling; Sales as a profession; Selling tasks; order processing and creative selling; Creative selling process; Prospecting and qualifying; Pre-approach and approach presentation, demonstration, objection handling; Closing the sales; Follow-up; Managing sales; sales planning and advertising; Managing sales effort; recruitment, selection, training, organizing, supervision, motivation, compensation and evaluation; Territory planning and quota administration. Training and motivating salespeople in Bangladesh.

BTM 4889: International Marketing

This course examines the challenge of entering and operating effectively in foreign markets. Decisions must be made regarding international marketing objectives, strategies and policies, foreign market selection, adaptation of products, distribution channels of communications to fit each foreign market, and systems of international marketing organization, information gathering, planning and control. These topics, along with an exploration of cultural issues, are examined through reading, case discussion, class presentations and a term project. Marketing reports for major countries will be prepared to offer valuable insights, as well as tips and techniques for marketing products and services in a specific country.

BTM 4891: Brand Management

Concept of brand management; its advantages and implications; scope of brand management; responsibility of a brand manager; product portfolio analysis; managing a brand over its life cycle; developing new brands; management of breadth and width of a product line; designing a pricing and a promotional strategy for the brands; and developing distribution system for the brands. Elements of Brand Equity, Brand Values, Message and Personality, Brand Icons, Brand Relevance and Brand Roadmap, Brand Valuation, Analyzing the Competitive Situation relevant to a Brand, Defining a Brand's Competitive Advantage, Setting Brand Objectives, Defining Strategic Variables relevant to a Brand, Creating Strategic Brand Alternatives, Tactical Implementation for a Brand Strategy, Brand Hierarchies and Portfolios, The Future of Branding (trends worldwide and in Bangladesh).

BTM 4893: Channel Management

This course emphasizes the means by which effective and efficient distribution network (comprising manufacturers, wholesalers, retailers, transportation firms and other actors in the distribution process) can be constructed. Particular attention is given to examining the behavioral dimensions of channel relations, the roles of channel members their use of power, the conflicts that arise among them and their communication procedures. Government and other constraints on channel activities are also examined. Cases are used for illustrative and analytical purposes.

BTM 4895: Retail Management

This course is designed to familiarize students with retail management and career opportunities in the retail field. Topics include: Importance of Retailing as a marketing institution; services of retailing; large scale retailing; integrated vs. independent retailing; controlling and coordination of independent retailers' activities; wheel of retailing and retail morality. Retailing in Bangladesh: store vs. non-store retailing and its socio-economic importance; standardization of retailing services; future trend. Major retail institutions (e.g. department stores, specialty stores, discount stores), the components of the retail mix and the functional areas of retailing are examined.

BTM 4897: Business to Business Marketing

Business markets are different from consumer markets in several ways. Typically, the orders and the customers are bigger, and the buying process/ buying unit is more complex. Usually, there is a need for a great deal of internal coordination and sometimes a high level of customization and complex order fulfillment. All of these demand continuous and intensive interaction with customers. This course provides a progressive approach to business marketing and business market management, which is the process of understanding, creating and delivering value to targeted business markets and customers. Business markets are composed of firms, institutions or governments. The course provides an understanding of nine business market processes: market sensing and value assessment, gaining customers, sustaining reseller partnerships; and sustaining customer relationships.

BTM 4899: Strategic Marketing

Specific topics include marketing strategy, market research and analysis, and the development of products and services, pricing, distribution and promotion. The course integrates marketing decision making within the context of manufacturing and financial dimensions of a business organization. Course participants should expect to use large doses of common business sense and managerial acumen and to rely heavily on sound business and marketing principles in the learning process.

BTM 4700: Internship (1) **Year wise Course Distribution**

First Semester

Course Number	Course Title	Contact Hours	Credit Hours
BTM 4101	Principles of Management	3-0	3.00
Hum 4161	Sociology	3-0	3.00
Math 4161	Mathematics I	3-0	3.00
BTM 4103	Financial Accounting I	3-0	3.00
Hum 4163	Business English	3-0	3.00
EEE 4161	Electrical and Electronic Technology I	3-0	3.00
EEE 4162	Electrical and Electronic Technology I Lab	0-3/2	0.75

Second Semester

Course Number	Course Title	Contact Hours	Credit Hours
BTM 4201	Financial Accounting 2	3-0	3.00
BTM 4203	Business Communication	3-0	3.00
BTM 4205	Principles of Marketing	3-0	3.00
BTM 4207	Organizational Behavior	3-0	3.00
BTM 4209	Micro Economics	3-0	3.00
EEE 4261	Electrical and Electronic Technology II	3-0	3.00
EEE 4262	Electrical and Electronic Technology II Lab	0-3/2	0.75

Third Semester

Course Number	Course Title	Contact Hours	Credit Hours
CSE 4361	Computer Science and Technology I	3-0	3.00
CSE 4362	Computer Science and Technology I Lab	0-3/2	0.75
CEE 4361	Civil and Environmental Technology I	3-0	3.00
CEE 4362	Civil and Environmental Technology I Lab	0-3/2	0.75
BTM 4301	Management Accounting	3-0	3.00
Math 4361	Mathematics II	3-0	3.00
BTM 4303	Human Resource Management	3-0	3.00
MCE 4361	Mechanical Technology I	3-0	3.00
MCE 4362	Mechanical Technology I Lab	0-3/2	0.75

Fourth Semester

Course Number	Course Title	Contact Hours	Credit Hours
MCE 4461	Mechanical Technology II	3-0	3.00
MCE 4462	Mechanical Technology II Lab	0-3/2	0.75
Math 4461	Business Statistics	3-0	3.00
BTM 4401	Legal Environment of Business	3-0	3.00
BTM 4403	Macro Economics	3-0	3.00
CSE 4461	Computer Science and Technology II	3-0	3.00
CSE 4462	Computer Science and Technology II Lab	0-3/2	0.75
CEE 4461	Civil and Environmental Technology II	3-0	3.00
CEE 4462	Civil and Environmental Technology II Lab	0-3/2	0.75

Fifth Semester

Course Number	Course Title	Contact Hours	Credit Hours
BTM 4501	Research Methods	3-0	3.00
BTM 4503	Financial Management 1	3-0	3.00
BTM 4505	Marketing Management	3-0	3.00
Hum 4561	Psychology	3-0	3.00
CSE 4561	Computer Science and Technology III	3-0	3.00
CSE 4562	Computer Science and Technology III Lab	0-3/2	0.75
	Elective I from Technology Management Electives	3-0	3.00

Sixth Semester

Course Number	Course Title	Contact Hours	Credit Hours
BTM 4601	Financial Management 2	3-0	3.00
BTM 4603	Operations Management	3-0	3.00
BTM 4605	International Business Environment	3-0	3.00
BTM 4661	Textile Technology	3-0	3.00
BTM 4609	Management Information System	3-0	3.00
	Elective II from Technology Management Electives	3-0	3.00

Seventh Semester

Course Number	Course Title	Contact Hours	Credit Hours
BTM 4701	Operations Research	3-0	3.00
BTM 4703	Quality Management	3-0	3.00
BTM 4705	Entrepreneurship	3-0	3.00
BTM 4700	Internship (Start after 6 th Semester (October-March))	9-0	9.00

Eighth Semester

Course Number	Course Title	Contact Hours	Credit Hours
BTM 4801	Project Management	3-0	3.00
BTM 4803	Technology Management	3-0	3.00
Hum 4861	Business Ethics and Leadership	3-0	3.00
Hum 4863	Science, Technology and Islam	3-0	3.00
	Elective I from Pool A/B/C/D/E	3-0	3.00
	Elective II from Pool A/B/C/D/E	3-0	3.00