# University of Mumbai



## No. AAMS\_UGS/ICC/2023-24/13

### CIRCULAR:-

Attention of the Principals of the Affiliated Colleges, the Head of the University Departments and Directors of the Recognized Institutions in Faculty of Commerce & Management is invited to this office circular No. UG/237 of 2017-18 dated 29<sup>th</sup> September, 2017 relating to the syllabus as per the (CBCS) for the B.Com. (Actuarial Studies) Three Year Integrated Program (Sem. I to VI).

They are hereby informed that the recommendations made by the Board of Studies in Commerce at its meeting held on 07<sup>th</sup> August, 2022 and subsequently passed in the Faculty and then by the Board of Deans at its meeting held on 08<sup>th</sup> December, 2022 vide item No. 7.10 (R) have been accepted by the Academic Council at its meeting held on 06<sup>th</sup> April, 2023 vide item No. 7.8 (R) and that in accordance therewith, the revised syllabus of F.Y.B.Com (Actuarial Studies) (CBCS) (Sem. I to II) has been brought into force with effect from the academic year 2021-22. (The same is available on the University's website www.mu.ac.in).

MUMBAI – 400 032 21<sup>st</sup> June, 2023 (Prof. Sunil Bhirud)
I/c. REGISTRAR

To

The Principals of the Affiliated Colleges, the Head of the University Departments and Directors of the Recognized Institutions in Faculty of Commerce & Management.

# A.C/7.8 (R) /06/04/2023

Copy forwarded with Compliments for information to:-

- 1) The Dean, Faculty of Commerce & Management,
- 2) The Chairman, Board of Studies Commerce,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Director, Department of Information & Communication Technology,
- 6) The Co-ordinator, MKCL.

### Copy for information and necessary action :-

- 1. The Deputy Registrar, College Affiliations & Development Department (CAD),
- 2. College Teachers Approval Unit (CTA),
- 3. The Deputy Registrar, (Admissions, Enrolment, Eligibility and Migration Department (AEM),
- 4. The Deputy Registrar, Academic Appointments & Quality Assurance (AAQA)
- 5. The Deputy Registrar, Research Administration & Promotion Cell (RAPC),
- 6. The Deputy Registrar, Executive Authorities Section (EA)
  He is requested to treat this as action taken report on the concerned resolution adopted by the Academic Council referred to the above circular.
- 7. The Deputy Registrar, PRO, Fort, (Publication Section),
- 8. The Deputy Registrar, Special Cell,
- 9. The Deputy Registrar, Fort Administration Department (FAD) Record Section,
- 10. The Deputy Registrar, Vidyanagari Administration Department (VAD),

### Copy for information:-

- 1. The Director, Dept. of Information and Communication Technology (DICT), Vidyanagari,
  - He is requested to upload the Circular University Website
- 2. The Director of Department of Student Development (DSD),
- 3. The Director, Institute of Distance and Open Learning (IDOL Admin), Vidyanagari,
- 4. All Deputy Registrar, Examination House,
- 5. The Deputy Registrars, Finance & Accounts Section,
- 6. The Assistant Registrar, Administrative sub-Campus Thane,
- 7. The Assistant Registrar, School of Engg. & Applied Sciences, Kalyan,
- 8. The Assistant Registrar, Ratnagiri sub-centre, Ratnagiri,
- 9. P.A to Hon'ble Vice-Chancellor,
- 10. P.A to Pro-Vice-Chancellor,
- 11. P.A to Registrar,
- 12. P.A to All Deans of all Faculties,
- 13. P.A to Finance & Account Officers, (F & A.O),
- 14. P.A to Director, Board of Examinations and Evaluation,
- 15. P.A to Director, Innovation, Incubation and Linkages,
- 16. P.A to Director, Department of Lifelong Learning and Extension (DLLE),
- 17. The Receptionist,
- 18. The Telephone Operator,

### Copy with compliments for information to :-

- 19. The Secretary, MUASA
- 20. The Secretary, BUCTU.

# University of Mumbai



Revised Syllabus for
F.Y.B.Com. (Actuarial Studies)
(Sem. I & II)
(Choice Based Credit System)

(With effect from the academic year 2021-22)

# **UNIVERSITY OF MUMBAI**



# Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of theCourse	F.Y.B.Com. (Actuarial Studies)
2	Eligibility forAdmission	H.S.C. with Mathematics as one of the subject
3	PassingMarks	As per norms of University of Mumbai for undergraduate programme
4	Ordinances / Regulations (if any)	As per norms
5	No. of Years /Semesters	3 years (6 semesters)
6	Level	P.G. / U.G./ Diploma / Certificate (Strike out which is not applicable)
7	Pattern	Yearly / Semester (Strike out which is not applicable)
8	Status	New / Revised (Strike out which is not applicable)
9	To be implemented from Academic Year	From Academic Year 2021-2022

Dr. Ajay Bhamre Chairman, Board of Studies in Commerce

Prof. Kavita Laghate, I/c Associate Dean, Faculty of Commerce and Management Dr. Ajay Bhamre I/c Dean, Faculty of Commerce and Management

# **B.Com.** (Actuarial Studies) Programme

# Under Choice Based Credit, Grading and Semester System Course Structure

### F.Y.B.Com. (Actuarial Studies)

(To be implemented from Academic Year- 2021-22)

No. of Courses	Semester I	Credits	No. of Courses	Semester II	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1	Financial Accounting (Elements of Financial Accounting) - Paper I	03	1	Financial Accounting (Accounting Standards on Banking, Insurance, Employee Benefits, Pensions and Financial Inst ruments) - Paper II	03
2	Insurance Business (Generalinsurance) - Paper I	03	2	Insurance Business (Life and Health Contingencies) Paper II	03
3	Financial Mathematics – Paper I	03	3	Financial Mathematics –Paper II	03
2	Ability Enhancement Cour	ses (AEC)	2	Ability Enhancement Courses (	AEC)
4	Business Communication - Paper I	03	4	Business Communication— Paper II	03
5	Foundation Course (same as other B.Com programmes) - Paper I/ NSS/ NCC/ Physical Education	02	5	Foundation Course (Value Education & Soft Skill) - Paper II/ NSS/ NCC/ Physical Education	02
3	Core Courses (CC)		3	Core Courses (CC)	
6	Environmental Studies Paper I	03	6	Business Environment Paper II(General commercial knowledge, Entrepreneurship and Business Development)	03
7	Business Economics (Micro & Macro Economics) – Paper I	03	7	Business Economics - Paper	03
	Total Credits	20		Total Credits	20

In the above mentioned course structure we propose to adopt the existing syllabus taught under the current B.Com Course namely Financial Accounting Paper I, Business Communication Paper I & II, Foundation Course I & II, Environmental Studies Paper I and Business Economics Paper I & II. The Commerce Paper I taught in Semester I under the current programme shall be included as Business Environment Paper II in Semester II.

# S.Y.B.Com. (Actuarial Studies)

### (To be implemented from Academic Year- 2022-2023)

No. of Courses	Semester III	Credits	No. of Courses	Semester IV	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1,2 & 3	*Any three courses from the following list of the courses	09	1,2 & 3	*Any three courses from the following list of the courses	09
2	Ability Enhancement Courses (A	AEC)	2	Ability Enhancement Courses (	AEC)
4	Information Technology in	03	4	Information Technology in	03
	service sector – Paper I			insurance – Paper II	
3	Core Courses (CC)		3	Core Courses (CC)	
5	Management (Introduction to Management) – Paper I	02	5	5 Management (Introduction to Management) - Paper II	
6	Insurance Laws and	03	6	6 Insurance Laws and 0:	
	Regulation –Paper I			Regulation –Paper II	
7	Mathematical modeling (Survival Models)- Paper I	03	7	Mathematical modelling- (Stochastic Models) Paper II	03
	Total Credits 2			Total Credits	20

*List of Discipline Related Elective(DRE) Courses for Semester III (Any One)		*List of DisciplineRelated Elective(DRE) Course for Semester IV (Any One)		
1	Actuarial Risk Management-Paper I	1	Actuarial Risk Management-Paper II	
2	Pricing and Valuation in Insurance Paper I	2	Pricing and Valuation in Insurance Paper II	
3	Auditing (Techniques of Auditing and Audit Procedures)- Paper I	3	Auditing (Techniques of Auditing and Audit Procedures)- Paper II	
4	Documentation ,Analysis and Reporting Paper I	4	Documentation ,Analysis and Reporting Paper II	
5	Innovations in insurance sector (Relating to Climate insurance, Crop insurance, Micro Insurance, Deposit insurance etc.,)Paper I	5	Innovations in insurance sector (Relating to Climate insurance, Crop insurance, Micro Insurance, Deposit insurance etc.,) Paper II	
Note	Note: Course/ Subject selected in Semester III will continue in Semester IV			

### T.Y.B.Com. (Actuarial Studies)

(To be implemented from Academic Year- 2023-2024)

No. of Courses	Semester V	Credits	No. of Courses	Semester VI	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1,2,3 & 4	*Any four courses from the following list of the courses	12	1,2,3 & 4	*Any four courses from the following list of the courses	12
2	Core Courses (CC)		2	Core Courses (CC)	
5	Customer Relationship Management –Paper I	04	5	5 Customer Relationship 04 Management – Paper II	
3	3 *Project Work		3	*Project Work	
6	Project Work I	04	6	Project Work II	04
Total Credits		20		Total Credits	20

**Note:** Project work is considered as a special course involving application of knowledge in solving/analyzing/exploring a real life situation/ difficult problem. Project work would be of 03 credits. A project work may be undertaken in any area of Elective Courses/ study area

*List of Elective Courses for Semester V (Any Four)		*List of Elective Courses for Semester VI (Any Four)	
1	Advanced Financial Mathematics paper I	1	Advanced Financial Mathematics Paper II
2	Investment Analysis-Paper I	2	Investment Analysis - Paper II
3	Behavioural Finanace (OR Functionallanguage studies Paper I ( Hindi, Marathi or Sanskrit) We suggest language option if it does not affect the norms) Insurance Claim negotiation and	3	International insurance contracts (OR Functional language studies Paper II(Any Foreign Language other than English) We suggest language option if it does not affect the norms) Insurance Claim negotiation and
	settlement - Paper I		settlement - Paper II
5	Life Contingencies Paper I	5	Life Contingencies Paper II
6	Mathematics of Demography	6	Enterprise Risk Management
Note	Note: Course/ Subject selected in Semester V will continue in Semester VI		

Project work may be undertaken by the students by choosing a specific area of insurance like General, life, vehicle, fire or a general study relating to problems in settlement. Valuation of business or build a model for any of the chosen area of . It may include drawing an insurance contract for crop insurance such that the insurance benefit may reach the bottom of the pyramid.

Suggestion for functional language is given because almost all of the excluded population in the insurance sector needs to be addressed with the language they are familiar with. Job opportunities will increase with this endeavour.

### Elective Courses (EC)

### 1. Accountancy and Financial Management I

### **Objectives:**

- 1. To impart the knowledge of various accounting concepts, conventions, policies and related accounting standards to the learners.
- 2. To impart the knowledge to learners about accounting procedures, methods and techniques in solving problems and issues relating to various areas of accounting.
- 3. To acquaint learners with practical aspects of 'accounts writing' by giving them exposure to special areas of accounting such as Co-operative Housing Societies, Trust, Branches, Installment Sale, Lease Accounting, Single Entry, etc.

Sr. No.	Modules	No. of Lectures
1	Accounting standards issued by ICAI and Inventory valuation	15
2	Final Accounts	15
3	Departmental Accounts	15
4	Accounting for Hire Purchase	15
	Total	60

Sr. No.	Modules / Units
1	Accounting standards issued by ICAI and Inventory valuation
	<ul> <li>Accounting standards:         Concepts, benefits, procedures for issue of accounting standards Various AS: AS – 1:         Disclosure of Accounting Policies         Purpose, Areas of Policies, Disclosure of Policies, Disclosure of Change in Policies, Illustrations         AS-2: Valuation of Inventories (Stock)         Meaning, Definition, Applicability, Measurement of Inventory, Disclosure in Final Account, Explanation with Illustrations.         AS – 9: Revenue Recognition         Meaning and Scope, Transactions excluded, Sale of Goods, Rendering of Services, Effects of Uncertainties, Disclosure, Illustrations.</li> <li>Inventory Valuation         Meaning of inventories Cost for inventory valuation</li> </ul>
	Inventory systems: Periodic Inventory system and Perpetual Inventory SystemValuation:  Meaning and importance  Methods of Stock Valuation as per AS – 2:  FIFO and Weighted Average Method Computation of valuation of inventory as on balance sheet date: If inventory is taken on a date after the balance sheet or before the balance sheet
2	Final Accounts
	Expenditure: Capital, Revenue Receipts: Capital, Revenue Adjustment and Closing Entries Final accounts of Manufacturing concerns (Proprietary Firm)
3	Departmental Accounts
	Meaning Basis of Allocation of Expenses and Incomes/Receipts Inter Departmental Transfer: at Cost Price and Invoice Price Stock ReserveDepartmental Trading and Profit & Loss Account and Balance Sheet
4	Accounting for Hire Purchase
	Meaning Calculation of interest  Accounting for hire purchase transactions by asset purchase method based on fullcash price  Journal entries, ledger accounts and disclosure in balance sheet for hirer and  vendor(excluding default, repossession and calculation of cash price)

### Elective Courses (EC)

### 2. Insurance Business – Paper I

The objective of this course is to explain the concept of insurance as well as the underlyingrisks and returns to undergraduate students of commerce.

	Insurance Business Paper I (Principles of Insurance)			
Sr. No.	Modules	No. of Lectures		
1	The Conceptual Framework	11		
2	The Insurance Contract	11		
3	Insurance Products	11		
4	The Insurance Market	12		
	Total No. of Lectures: 45			

Sr. No.	Modules		
1	The Conceptual Framework		
	1. What is insurance- Meaning and Definition		
	2. Brief history of Insurance		
	3. Understanding Perils and Risks		
	4. Classification of Risks and Hazards		
	5. Role of Insurance in Social and Economic Development		
	6. Classes of Insurance		
	7. Growth and Evolution of Insurance Industry in India		
	8. Unique Characteristics of Insurance Business		
	9. Managing Risks		
	10. Introduction into Insurance Funds		
	11. Trustees in Insurance Business		
	12. Reinsurance		
	13. Linking Insurance with Social Security		
2	The Insurance Contract		
	1. Utmost Good Faith or Uberrima Fides		
	2. Insurable Interest		
	3. Insurer's Insurable Interest		
	4. Criminal Acts		
	5. Indemnity		
	6. Subrogation and Contribution		
	7. Proximate Cause		
	8. Personal and Non-Personal Contracts		
	9. Distinguishing Insurance Contracts with other contracts		
	10. Insurance Terminology- First Premium- Renewal- Mode- Limited Payment- Policies-		
	Single Premium- Convertible- Days of Grace- Lapse-Paid Up Policy- Revival- Deferment		
	Period- Nomination- Assignment- Bonus- Arbitration		
3	Insurance Products		
	1. Life Insurance Products including Government Schemes		
	2. Introduction to Non-Life Insurance, Fire, Loss of Profits, Marine, MarineCargo, Motor		
	and Miscellaneous		
	3. Personal, Accident, Hit and Run Cases, Aviation etc		
	4. Insurance Policy and Documents- Certificates of Insurance, Open Policy, Floater,		
	Franchise, Coinsurance		
	5. Compensation under Insurance- Total Loss- Actual or Constructive Loss- Bonus-		
	Replacement- Policy value- Agreed value- Full value- First Loss-Increased value.		
4	The Insurance Market		
	1. Life and Non-Life Insurers- Reinsurers- Individual and Corporate Agents- Brokers-		
	Surveyors- Medical Examiners- Third Party Administrators		
	2. IRDA- Insurance Councils- Ombudsmen- Educational Institutes- Councils- Tariff Advisory		
	Committee		
	3. Career Opportunities in Insurance Business		
	4. Ethical Aspects of Insurance Business		

# **Elective Courses (EC)**

### 3. Financial mathematics- Paper I

### **Objective:**

The main objective of this course is to introduce financial mathematics to undergraduate students of commerce, so that they can use them in the field of commerce and industry to solvethe real life problems.

	Financial Mathematics I		
Sr. No.	Modules	No. of Lectures	
1	Functions and their applications	15	
2	Sequences and Series	15	
3	Permutations and Combinations	15	
4	4 Interest		
	Total No. of Lectures: 60		

Sr. No.	Modules		
1	Functions and their Applications		
	1. Introduction- Function		
	2. Types of Functions- One-one functions, Onto Functions, Algebraic Functions,		
	Logarithmic Functions and Exponential Functions, Grapgh ofFunctions		
	3. Problems on functions		
	4. Functions related to Business and Economics (Demand Function, SupplyFunction, Cost		
	Function, Revenue Function and Profit Function		
	5. Problems based on these functions		
2	Sequences and Series		
	1. Sum of the Series		
	2. Arithmetic Progression (AP), Geometric Progression (GP)		
	3. Sum of AP, Sum of GP		
3	Permutations and Combinations		
	1. Introduction- Meaning of Factorial Notation		
	2. Fundamental Principle, Permutations, Problems on Permutations		
	3. Combinations, Problems on combinations		
4	Interest		
	1. Simple Interest, Problems on Simple Interest		
	2. Compound Interest, Problems on Simple Interest		
	3. Present Value, Nominal and Effective Rate of interest		

# Ability Enhancement Courses (AEC)

# 4. Business Communication I

### Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Theory of Communication	10
2	Obstacles to Communication in Business World	10
3	Business Correspondence	12
4	Language and Writing Skills	13
	Total	45

### Note:

One tutorial per batch per week in addition to number of lectures stated above (Batch size as per the University norms)

Sr. No.	Modules / Units		
1	Theory of Communication		
	Concept of Communication: Meaning, Definition, Process, Need, Feedback Emergence of Communication as a key concept in the Corporate and Global world Impact of technological advancements on Communication  Channels and Objectives of Communication: Channels- Formal and Informal- Vertical, Horizontal, Diagonal, Grapevine  Objectives of Communication: Information, Advice, Order and Instruction, Persuasion, Motivation, Education, Warning, and Boosting the Morale of Employees(A brief introduction to these objectives to be given)  Methods and Modes of Communication:  Methods: Verbal and Nonverbal, Characteristics of Verbal CommunicationCharacteristics of Non-verbal Communication, Business Etiquette  Modes: Telephone and SMS Communication 3 (General introduction to Telegramto be given) Facsimile Communication [Fax]  Computers and E- communication Video and Satellite Conferencing		
2	Obstacles to Communication in Business World		
	Problems in Communication /Barriers to Communication: Physical/ Semantic/Language / Socio-Cultural / Psychological / Barriers, Ways to Overcome these Barriers Listening: Importance of Listening Skills, Cultivating good Listening Skills – 4 Introduction to Business Ethics: Concept and Interpretation, Importance of Business Ethics, Personal Integrity at the workplace, Business Ethics and media, Computer Ethics, Corporate SocialResponsibility Teachers can adopt a case study approach and address issues such as the following so as to orient and sensitize the student community to actual business practices: Surrogate Advertising, Patents and Intellectual Property Rights, Dumping of Medical/E-waste, Human Rights Violations and Discrimination on the basis of gender, race, caste, religion, appearance and sexual orientation at the workplace Piracy, Insurance, Child Labour		
3	Business Correspondence		
	Theory of Business Letter Writing: Parts, Structure, Layouts—Full Block, Modified Block, Semi - Block Principles of Effective Letter Writing, Principles of effective Email Writing, Personnel Correspondence: Statement of Purpose, Job Application Letter and Resume, Letter of Acceptance of Job Offer, Letter of Resignation [Letter of Appointment, Promotion and Termination, Letter of Recommendation (to be taught but not to be tested in the examination)]		
4	Language and Writing Skills		
	Commercial Terms used in Business CommunicationParagraph Writing:  Developing an idea, using appropriate linking devices, etc  Cohesion and Coherence, self-editing, etc [Interpretation of technical data,  Composition on a given situation, a short informal report etc.]		
	Activities  Listening Comprehension  Remedial Teaching  Speaking Skills: Presenting a News Item, Dialogue and Speeches  Paragraph Writing: Preparation of the first draft, Revision and Self – Editing, Rules of spelling.  Reading Comprehension: Analysis of texts from the fields of Commerce and Management		

# Skill Enhancement Courses (SEC)

# 5. Foundation Course - I

Sr. No.	Modules	No. of Lectures
1	Overview of Indian Society	05
2	Concept of Disparity- 1	10
3	Concept of Disparity-2	10
4	The Indian Constitution	10
5	Significant Aspects of Political Processes	10
	Total	45

Sr. No.	Modules / Units	
1	Overview of Indian Society	
	Understand the multi-cultural diversity of Indian society through its demographic composition: population distribution according to religion, caste, and gender; Appreciate the concept of linguistic diversity in relation to the Indian situation; Understand regional variations according to rural, urban and tribal characteristics; Understanding the concept of diversity as difference	
2	Concept of Disparity- 1	
	Understand the concept of disparity as arising out of stratification and inequality; Explore the disparities arising out of gender with special reference to violenceagainst women, female foeticide (declining sex ratio), and portrayal of women inmedia; Appreciate the inequalities faced by people with disabilities and understand the issues of people with physical and mental disabilities	
3	Concept of Disparity-2	
	Examine inequalities manifested due to the caste system and inter-group conflicts arising thereof; Understand inter-group conflicts arising out of communalism; Examine the causes and effects of conflicts arising out of regionalism and linguistic differences	
4	The Indian Constitution	
	Philosophy of the Constitution as set out in the Preamble; The structure of the Constitution-the Preamble, Main Body and Schedules; Fundamental Duties of the Indian Citizen; tolerance, peace and communal harmony as crucial values in strengthening the social fabric of Indian society; Basic features of the Constitution	
5	Significant Aspects of Political Processes	
	The party system in Indian politics; Local self-government in urban and rural areas; the 73rd and 74th Amendments and their implications for inclusive politics; Role and significance of women in politics	

### Topics for Project Guidance: Growing Social Problems in India:

- Substance abuse- impact on youth & challenges for the future
- HIV/AIDS- awareness, prevention, treatment and services
- Problems of the elderly- causes, implications and response
- Issue of child labour- magnitude, causes, effects and response
- Child abuse- effects and ways to prevent
- Trafficking of women- causes, effects and response

### Note:

Out of the 45 lectures allotted for 5 units for Semester I, about 15 lectures may be allotted for project guidance

# Skill Enhancement Courses (SEC)

# 5.Foundation Course in NSS - I

Sr. No.	Modules	No. of Lectures
1	Introduction to NSS	10
2	Concept of Society and Social Issues in India	15
3	Indian Constitution and Social Justice	10
4	Human Personality and National Integration	10
	Total	45

Sr. No.	Modules / Units	
1	Introduction to NSS	
	Introduction to National Service Scheme(NSS) Orientation and structure of National Service Scheme(NSS)National Service Scheme(NSS)- its objectives The historical perspective of National Service Scheme(NSS)National Service Scheme(NSS)- Symbol and its meaning National Service Scheme(NSS)- its hierarchy from national to college level National Service Scheme(NSS) Regular activities Distribution of working hours- Association between issues and programs-community project- urban rural activities, Association- modes of activity evaluation	
2	Concept of Society and Social Issues in India	
	History and philosophy of social sciences in India Concept of society- Development of Indian society - Features of Indian Society-Division of labour and cast system in India Basic social issues in India Degeneration of value system, Family system, Gender issues, Regional imbalance	
3	Indian Constitution and Social Justice	
	Indian Constitution  Features of Indian Constitution - Provisions related to social integrity anddevelopment  Social Justice  Social Justice- the concept and its features Inclusive growth- the concept and its features	
4	Human Personality and National Integration	
	Dimensions of human personality Social Dimension of Human personality- Understanding of the socity Physical Dimension of Human personality- Physical Exercise, Yoga, etc. National integration & Communal Harmony National Integration- its meaning, importance and practice Communal Harmony- its meaning, importance and practice	

# Skill Enhancement Courses (SEC)

# 5. Foundation Course in NCC - I

Sr. No.	Modules	No. of Lectures
1	Introduction to NCC, National Integration & Awareness	10
2	Drill: Foot Drill	10
3	Adventure Training, Environment Awareness and Conservation	10
4	Personality Development and Leadership	10
5	Specialized Subject: Army/ Navy/ Air	05
	Total	45

Sr. No.	Modules / Units	
1	Introduction to NCC, National Integration & Awareness	
	<ul> <li>Desired outcome: The students will display sense of patriotism, secular values and shall be transformed into motivated youth who will contribute towards nation building through national unity and social cohesion.</li> <li>Genesis, Aims, Objectives of NCC &amp; NCC Song</li> <li>Organisation &amp; Training</li> <li>Incentives &amp; Benefits</li> <li>Religions, Culture, Traditions and Customs of India</li> <li>National Integration: Importance and Necessity</li> <li>Freedom Struggle</li> </ul>	
2	Drill: Foot Drill	
	<ul> <li>Desired outcome: The students will demonstrate the sense of discipline, improve bearing, smartness, turnout, develop the quality of immediate and implicit obedience of orders, with good reflexes.</li> <li>General and Words of Command</li> <li>Attention, Stand at Ease and Stand Easy, Turning and Inclining at the Halt</li> <li>Sizing, Forming Up in Three Ranks and Numbering, Open and Close OrderMarch and Dressing</li> <li>Saluting at the Halt, Getting On Parade, Dismissing and Falling Out</li> <li>Marching, Length of Pace and Time of Marching in Quick Time and Halt, SlowMarch and Halt</li> <li>Turning on the March and Wheeling.</li> <li>Saluting on the March.</li> <li>Formation of squad and Squad Drill.</li> </ul>	
3	Adventure Training, Environment Awareness and Conservation	
	Adventure Training  Desired outcome: The students will overcome fear & inculcate within them the sense of adventure, sportsmanship, espirit-d-corp and develop confidence, courage, determination, diligence and quest for excellence.  • Any Two such as — Obstacle course, Slithering, Trekking, Cycling, Rock Climbing, Para Sailing, Sailing, Scuba Diving etc  Environment Awareness and Conservation  Desired outcome: The student will be aware of the conservation of natural resources and protection of environment.  • Natural Resources — Conservation and Management  • Water Conservation and Rainwater Harvesting	

# Desired outcome: The student will develop an all-round personality withadequate leadership traits to deal / contribute effectively in life. Introduction to Personality Development Factors Influencing /Shaping Personality: Physical, Social, Physiological, Philosophical and Psychological Self Awareness Know yourself/ Insight Change Your Mind Set Communication Skills: Group Discussion / Lecturettes (Public Speaking) Leadership Traits Types of Leadership

### 5 Specialized Subject: Army Or Navy Or Air

### Army

**Desired outcome:** The training shall instill patriotism, commitment and passion to erve the nation motivating the youth to join the defence forces.

It will also acquaint, expose & provide basic knowledge about armed, naval andair-force subjects

### A. Armed Force

- Basic organisation of Armed Forces
- Organisation of Army
- Badges and Ranks

### B. Introduction to Infantry and weapons and equipments

 Characteristics of 7.62mm SLR Rifle, Ammunition, Fire power, Stripping, Assembling and Cleaning

### C. Military history

- Biographies of renowned Generals (Carriapa / Sam Manekshaw)
- Indian Army War Heroes- PVCs

### D. Communication

- Types of Communications
- Characteristics of Wireless Technologies (Mobile, Wi-Fi etc.)

OR

### Navy

### A. Naval orientation and service subjects

- History of the Indian Navy-Pre and Post Independence, Gallantry awardwinners
- Organization of Navy- NHQ, Commands, Fleets, Ships and shoreestablishments
- Types of Warships and their role
- Organization of Army and Air Force- Operational and Training commands
- Ranks of Officers and Sailors, Equivalent Ranks in the Three Services

### B. Ship and Boat Modelling

- Principles of Ship Modelling
- Maintenance and Care of tools

### C. Search and Rescue

• SAR Organization in the Indian ocean

### D. Swimming

• Floating for three minutes and Free style swimming for 50 meters

OR

### AIR

### A. General Service Knowledge

- Development of Aviation
- History of IAF

### **B.** Principles of Flight

- Introduction
- Laws of Motion
- Glossary of Terms.

### C. Airmanship

- Introduction
- Airfield Layout
- Rules of the Air
- Circuit Procedure
- ATC/RT Procedures
- Aviation Medicine

### D. Aero- Engines

Introduction to Aero-engines D. Swimming

Floating for three minutes and Free style swimming for 50 meters

# Skill Enhancement Courses (SEC)

# 5. Foundation Course in Physical Education-I

Sr. No.	Modules	No. of Lectures
1	Introduction to Basic Relevant concepts in Physical Education	10
2	Components of Physical Fitness	15
3	Testing Physical Fitness	10
4	Effect of Exercise on various Body System	10
	Total	45

Sr. No.	Modules / Units
1	Introduction to Basic Relevant concepts in Physical Education
	Dimensions and determinants of Health, Fitness & Wellness
	Concept of Physical Education and its importance
	Concept of Physical Fitness and its types
	Concept of Physical Activity, exercise and its types & benefits
2	Components of Physical Fitness
	Concept of components of Physical Fitness
	Concept and components of HRPF
	Concept and components of SRPF
	Importance of Physical Education in developing physical fitness components.
3	Testing Physical Fitness
	Tests for measuring Cardiovascular Endurance
	Tests for measuring Muscular Strength& Endurance
	Tests for measuring Flexibility
	Tests for measuring Body Composition
4	Effect of Exercise on various Body System
	Effect of exercises on Musculoskeletal system
	Effect of exercises on Circulatory System
	Effect of exercises on Respiratory System
	Effect of exercises on Glandular System

# Ability Enhancement Courses (AEC)

# 6. Environmental Studies I

Sr. No.	Modules	No. of Lectures
1	Environment and Ecosystem	13
2	Natural Resources and Sustainable Development	13
3	Populations and Emerging Issues of Development	13
4	Urbanisation and Environment	13
5	Reading of Thematic Maps and Map Filling	08
	Total	60

Sr. No.	Modules / Units
1	Environment and Ecosystem
	Environment: Meaning, definition, scope and its components; concept of an ecosystem : definition, Characteristics, components and types, functioning and structure; Food Chain and Food Web- Ecological Pyramids - Man and environment relationship; Importance and scope of Environmental Studies.
2	Natural Resources and Sustainable Development
	Meaning and definitions; Classification and types of resources, factors influencing resource; Resource conservation- meaning and methods- I and non-conventional resources, problems associated with and management of water, forest and energy resources- resource utilization and sustainable development
3	Populations and Emerging Issues of Development
	Population explosion in the world and in India and arising concerns- Demographic Transition Theory - pattern of population growth in the world and in India and associated problems - Measures taken to control population growth in India; Human population and environement-Environment and Human Health – Human Development Index – The World Happiness Index
4	Urbanisation and Environment
	Concept of Urbanisation— Problems of migration and urban environment- changing land use, crowding and stress on urban resources, degradation of air and water, loss of soil cover impact on biodiversity, Urban heat islands — Emerging Smart Cities and safe cities in India - Sustainable Cities
5	Reading of Thematic Maps and Map Filling
	Reading of Thematic Maps(4 Lectures) Located bars, Circles, Pie charts, Isopleths, Choropleth and Flow map, Pictograms -Only reading and interpretation. Map Filling: (4 Lectures) Map filling of World (Environmentally significant features) using point, line andpolygon segment. Concept and Calculation of Ecological Footprint

# Elective Courses (EC)-Discipline Related Elective (DRE) Courses

### 7. Business Economics I

Sr. No.	Modules	No. of Lectures
1	Introduction	10
2	Demand Analysis	15
3	Supply and Production Decisions	10
4	Cost of Production	10
	Total	45

Sr. No.	Modules / Units	
1	Introduction	
	Scope and Importance of Business Economics - basic tools- Opportunity Cost principle-Incremental and Marginal Concepts. Basic economic relations - functional relations: equations-Total, Average and Marginal relations- use of Marginal analysis in decision making, The basics of market demand, market supply and equilibrium price- shifts in the demand and supply curves and equilibrium	
2	Demand Analysis	
	Demand Function - nature of demand curve under different markets  Meaning, significance, types and measurement of elasticity of demand (Price, income cross and promotional)- relationship between elasticity of demand and revenue concepts  Demand estimation and forecasting: Meaning and significance - methods of demand estimation: survey and statistical methods ( numerical illustrations on trend analysis and simple linear regression)	
3	Supply and Production Decisions	
	<b>Production function:</b> short run analysis with Law of Variable Proportions- Production function with two variable inputs- isoquants, ridge lines and least cost combination of inputs- Long run production function and Laws of Returns to Scale - expansion path - Economies and diseconomies of Scale and economies of scope	
4	Cost of Production	
	Cost concepts: Accounting cost and economic cost, implicit and explicit cost, social and private cost, historical cost and replacement cost, sunk cost and incremental cost -fixed and variable cost - total, average and marginal cost - Cost Output Relationship in the Short Run and Long Run (hypothetical numerical problems to be discussed)  Extensions of cost analysis: cost reduction through experience - LAC and Learning curve - Break even analysis (with business applications)	

# Elective Courses (EC)

# 1. Accountancy and Financial Management - Paper II

Sr. No.	Modules / Units
1	Module I
	IND AS 32 Financial Instruments – Presentation
	IND AS 39 Financial Instruments – recognition and measurement
2	Module II
	IND AS 107 Financial Instruments – disclosures in re-classification and fair value measurement and liquidity risk. IND AS 109 Financial Instruments – classification, assessment of credit losses, hedge accounting and disclosures.
3	Module III
	IND AS 104 Insurance Contracts Contract classification and unbundling Recognition and measurement Nature and extent of risks arising in Insurance Contracts Disclosure
4	Module IV
	IND AS 19 Employee Benefits Models used in actuarial valuation of gratuity in India. (Practical questions on valuation can be covered.) Disclosures under AS 15 and AS 19  Reconciliation of Assets and liability, Assets ceilingImpact on implementation

# Elective Courses (EC)

# 2. Insurance Business –II (Life and other Contingencies)

	Insurance Business –II (Life and other Contingencies)	
Sr. No.	Modules	No. of Lectures
1	Life Insurance Organization	15
2	Introduction to Actuarial Valuation	10
3	Annuities	10
4	Introduction to health Insurance	10
	Total No. of Lectures:	45

Sr. No.	Modules
1	Life Insurance Organization
	1. Introduction
	2. Approaches to Life Insurance- The Indian Context
	3. Internal Organization
	4. The Distribution System
	5. Appointment of Agents
	6. Functions of Agents
	7. Agency continuation and termination
	8. Remuneration to Agents
	9. Trends in Life Insurance
	10. Distribution Channels
	11. Premiums and Bonuses
	12. Net and Pure Premium
	13. Premium Calculation
	$14.\ Lapse$ and Revival- Special Revival Scheme- Installment Revival Scheme-Loan- cum-
	Revival Scheme
	15. Assignment, Nomination
2	Introduction to Actuarial Valuation
	1. Bonus- Simple Reversionary Bonus- Compound Reversionary Bonus-Interim Bonus
	2. Plans of Life Insurance- Death Cover- Survival Benefit- Term Assurance-Pure
	Endowment- Linked
	3. Some Popular Plans
	4. Common Variations
	5. With profit and without profit polices
	6. Joint Life Policies
	7. Children Plans
	8. Variable Insurance Plans
	9. Postal Life Insurance
_	
3	Annuities
	1. The nature of Annuity
	2. Immediate Annuity
	3. Deferred Annuity
	4. Group Insurance- Introduction- Meaning of Group Insurance- Types of Group
	Insurance Schemes
	5. Ways to meeting Gratuity Liability
	6. Group Superannuation Scheme
	7. Group Leave Encashment Schemes (GLES)
	8. Other Group Schemes
	9. Social Security Schemes
	10. Other Special Need Plans
	11. Industrial Life Insurance
	12. Married Women's Property (MWP) Act Policies
	13. Plans for Differently Abled

4	Introduction to Health Insurance
	1. Range of Products
	2. Awareness about health Contingencies
	3. Importance of Health Insurance in India
	4. Growth and Evaluation of Health Insurance Companies in India
	5. Insurance and Equity Funds
	6. Insurance and Debt Funds
	7. Insurance and Money Market Funds
	8. Liquid Funds
	9. Balanced Funds
	10. Premium Holiday
	11. Annuities and Pensions
	12. Future for Health Insurance

# SEMESTER II Elective Courses (EC)

# 3. Financial Mathematics

Financial Mathematics-II		
Sr. No.	Modules	No. of Lectures
1	Matrices	15
2	Graph of Linear Inequalities	15
3	Annuity and Sinking funds	15
4	Shares and Mutual Funds	15
	Total No. of Lectures:	60

Sr. No.	Modules	
1	Matrices	
	<ol> <li>Introduction- Definition of a Matrix, Types of Matrices, Equal Matrices, Matrix         Addition, Multiplication of a Matrix by a Scalar, Matrix Multiplication, Problems on         the above concepts</li> <li>Transpose of a Matrix, Orthogonal; Matrix, Symmetric and Skew Symmetric Matrices,         Determinant of a square Matrix, Adjoint of a Matrix, Inverse of a Matrix</li> <li>Problems based on the above concepts</li> <li>Elementary Operations on a matrix, Reduction Method for finding inverse of a matrix,         Solution of a system of Linear Equations</li> <li>Problems based on the above concepts</li> </ol>	
2	Graph of Linear Inequalities	
	<ol> <li>Introduction, Inequality, Solution of an inequality, Graph of an inequality, System of Linear Inequalities</li> <li>Mathematical Formulation of Linear Programming Problems.</li> <li>Solution of Linear programming Problems using graphical method up to twovariables</li> <li>Application of linear inequalities in practical problems</li> </ol>	
3	Annuity and Sinking Funds	
	<ol> <li>Introduction- Concept of Annuity, Classification of Annuities, Amount of anordinary annuity, Present Value of an ordinary annuity, Amount of an annuity due, Present value of an annuity due</li> <li>Amount of a deferred annuity, sinking fund, Perpetual Annuity, Amortization, Leasing, Capital Expenditure and Bonds</li> </ol>	
4	Shares and Mutual Funds	
	<ol> <li>Introduction- Concept of share, face value, market value, dividend, equityshares, preferential shares, bonus shares</li> <li>Problems based on these concepts</li> <li>Mutual funds: Simple problems on calculations of Net income after considering entry load, Dividend, change in Net Asset value (N.A.V) andExit Load</li> <li>Averaging of price under the Systematic Investment Plans (S.I.P)</li> </ol>	

# SEMESTER II Ability Enhancement Courses (AEC)

### 4. Business Communication II

### Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Presentation Skills	10
2	Group Communication	15
3	Business Correspondence	10
4	Language and Writing Skills	10
	Total	45

### Note:

One tutorial per batch per week in addition to number of lectures stated above (Batch size as per the University norms)

Sr. No.	Modules / Units
1	Presentation Skills
	Presentations: (to be tested in tutorials only) 4 Principles of EffectivePresentation Effective use of OHP Effective use of Transparencies How to make a Power-Point Presentation
2	Group Communication
	Interviews: Group Discussion Preparing for an Interview, Types of Interviews – Selection, Appraisal, Grievance, Exit  Meetings: Need and Importance of Meetings, Conduct of Meeting and Group Dynamics Role of the Chairperson, Role of the Participants, Drafting of Notice, Agenda and Resolutions  Conference: Meaning and Importance of Conference Organizing a Conference Modern Methods: Video and Tele – Conferencing  Public Relations: Meaning, Functions of PR Department, External and Internal Measures of PR
3	Business Correspondence
	Trade Letters: Order, Credit and Status Enquiry, Collection (just a brief introduction to be given)  Only following to be taught in detail:-  Letters of Inquiry, Letters of Complaints, Claims, Adjustments Sales Letters, promotional leaflets and fliers  Consumer Grievance Letters, Letters under Right toInformation (RTI) Act  [Teachers must provide the students with theoretical constructs wherever necessary in order to create awareness. However students should not be tested on the theory.]
4	Language and Writing Skills
	Reports: Parts, Types, Feasibility Reports, Investigative Reports  Summarisation: Identification of main and supporting/sub points Presenting these in a cohesive manner

### **Tutorial Activities:**

Presentations, Group Discussion, Mock Interviews, Mock Meetings / Conferences, Book Reviews/Summarization, Reading Comprehension: Analysis of texts from the field of Literature [Suggested Books for Book Reviews: Books from the fields of Management, Finance, and Literature Like — Sun Tzu: The Art of War, Eliyahu M. Goldratt: The Goal, Eliyahu M. Goldratt: It's Not Luck, Spencer Johnson: Who Moved My Cheese, Stephen Lundin, Ph.D, Harry Paul, John Christen: Fish, ChetanBhagat One Night At A Call Center, ChetanBhagat My Three Mistakes, ArindamChoudhary: Count Your Chickens Before They Hatch, Stephen Covey: Seven Habits of Successful People, George Orwell: Animal Farm, Dr. Abdul Kalam: Wings of Fire]

[N.B.: The above list is only indicative and not prescriptive.]

# Skill Enhancement Courses (SEC)

# 5. Foundation Course - II

Sr. No.	Modules	No. of Lectures
1	Globalisation and Indian Society	07
2	Human Rights	10
3	Ecology	10
4	Understanding Stress and Conflict	10
5	Managing Stress and Conflict in Contemporary Society	08
	Total	45

Sr. No	Modules /Units
1	Globalisation and Indian Society
	Understanding the concepts of liberalization, privatization and globalization; Growth of information technology and communication and its impact manifested in everyday life; Impact of globalization on industry: changes in employment and increasing migration; Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.
2	Human Rights
	Concept of Human Rights; origin and evolution of the concept; The Universal Declaration of Human Rights; Human Rights constituents with special reference to Fundamental Rights stated in the Constitution
3	Ecology
	Importance of Environment Studies in the current developmental context; Understanding concepts of Environment, Ecology and their interconnectedness; Environment as natural capital and connection to quality of human life; Environmental Degradation- causes and impact on human life;Sustainable development- concept and components; poverty and environment
4	Understanding Stress and Conflict
	Causes of stress and conflict in individuals and society; Agents of socialization and the role played by them in developing the individual; Significance of values, ethics and prejudices in developing the individual; Stereotyping and prejudice as significant factors in causing conflicts in society. Aggression and violence as the public expression of conflict
5	Managing Stress and Conflict in Contemporary Society
	Types of conflicts and use of coping mechanisms for managing individual stress; Maslow's theory of self-actualisation; Different methods of responding to conflicts in society; Conflict-resolution and efforts towards building peace and harmony in society

# Skill Enhancement Courses (SEC)

# 5. Foundation Course in NSS - II

Sr. No.	Modules	No. of Lectures
1	Socio-economic Survey and Special Camp	10
2	Orientation of the College Unit and Communication Skills	15
3	Rapport with Community and Programme Planning	10
4	Government Organisations /Non-Government Organisations	10
	Total	45

Sr. No.	Modules / Units	
1	Socio-economic Survey and Special Camp	
	Socio economic survey Socio-economic survey- its meaning and need, Process of Socio-economic survey- design of questionnaire; data collection, dataanalysis and report writing Special camping activity Concept of camp- Identification of community problems- Importance of groupliving- Team building- Adoption of village- Planning for camp- pre camping, during the course of camp and post camping activities	
2	Orientation of the College Unit and Communication Skills	
	Training and orientation of the program unit in the college  Leadership training – formation of need based programmmes- Concept ofcampus to community(C to C) activities  Communication skills and Documentation  Communication skills- the concept, Verbal, Non-Verbal communication  The documentation- Activity Report Writing – basics of NSS accounting – Annual Report – Press note and preparation	
3	Rapport with Community and Programme Planning	
	Working with individual group and community Ice breaking- interaction games – conflict resolution Program planning Programme planning- the concept and its features, requirements for successful implementation of program- program flow charting- feedback	
4	Government Organisations / Non-Government Organisations	
	Structure of Government Organisations and Non-Government Organisations Government organisations (GO)- its meaning -Legal set up, functioning, Sourcesof funding Non-Government organisations (NGO)- its meaning -Legal set up, functioning, Sources of funding National Service Scheme(NSS)- Government organisations (GO) and Non-Government organisations (NGO)  Government schemes for community development  Schemes of Government welfare departments for community development-provisions & examples	

# Skill Enhancement Courses (SEC)

# 5. Foundation Course in NCC - II

Sr. No.	Modules	No. of Lectures
1	Disaster Management, Social Awareness and Community Development	05
2	Health and Hygiene	10
3	Drill with Arms	10
4	Weapon Training	10
5	Specialized Subject: Army Or Navy Or Air	10
	Total	45

Sr. No.	Modules / Units	
1	Disaster Management, Social Awareness and Community Development	
	Disaster Management: Desired outcome: The student shall gain basic information about civil defence organisation / NDMA & shall provide assistance to civil administration invarious types of emergencies during natural / manmade disasters  Civil Defence Organisation and Its Duties/ NDMA  Types of Emergencies/ Natural Disaster  Assistance during Natural / Other Calamities: Flood / Cyclone/ Earth Quake/Accident etc.  'Avan' model of NCC  Social Awareness and Community Development: Desired outcome: The student shall have an understanding about social service and its need, about NGOs and shall participate in community action programmesfor betterment of the community.  Basics of Social Service, Weaker Sections of Our Society and Their Needs  Social/ Rural Development Project: MNREGA, SGSY, NSAP etc.  Contribution of Youth towards Social Welfare  Civic Responsibilities  Causes & Prevention of HIV/AIDS; Role of Youth	
2	Health and Hygiene	
	<ul> <li>Desired outcome: The student shall be fully aware about personal health and hygiene lead a healthy life style and foster habits of restraint and self awareness.</li> <li>Structure and Functioning of the Human Body</li> </ul>	
	Hygiene and Sanitation (Personal and Food Hygiene)	
	Infectious & Contagious Diseases & Their Prevention	
3	Drill with Arms	
	Desired outcome: The students will demonstrate the sense of discipline, improvebearing, smartness, turnout, develop the quality of immediate and implicit obedience of orders, with good reflexes.  • Attention, Stand at Ease and Stand Easy  • Getting on Parade with Rifle and Dressing at the Order  • Dismissing and Falling Out  • Ground / Take Up Arms  • Present From the Order and Vice-versa  • General Salute, Salami Shastra	
4	Weapon Training	
	<ul> <li>Desired outcome: The student shall have basic knowledge of weapons and theiruse and handling.</li> <li>Characteristics of a Rifle / Rifle Ammunition and its Fire Power</li> <li>Stripping, Assembling, Care and Cleaning and Sight Setting of .22 rifle</li> <li>Stripping, Assembling, Care and Cleaning of 7.62mm SLR</li> <li>Loading, Cocking and Unloading</li> <li>The lying position, Holding and Aiming- I</li> <li>Trigger control and firing a shot</li> <li>Range procedure and safety precautions</li> <li>Short range firing, Aiming- II -Alteration of sight</li> </ul>	

### 5 Specialized Subject: Army Or Navy Or Air

### Army

**Desired outcome:** The training shall instill patriotism, commitment and passion toserve the nation motivating the youth to join the defence forces.

It will also acquaint, expose & provide basic knowledge about armed, naval andair-force subjects

### A. Map reading

- Introduction to types of Maps and Conventional signs
- · Scales and Grid system
- Topographical forms and technical terms
- Relief, contours and Gradients
- Cardinal points and Types of North
- Types of bearings and use of Service Protractor
- Prismatic compass and its use and GPS

### B. Field Craft and Battle Craft

- Introduction
- Judging distance
- Description of ground
- Recognition, Description and Indication of landmarks and targets

OR

#### Navy

### A. Naval Communication

- Introduction to Naval Modern Communication, Purpose and Principles
  - Introduction of Naval communication
  - Duties of various communication sub-departments
- Semaphore
  - Introduction of position of letters and prosigns
  - Reading of messages
  - Transmission of messages

### B. Seamanship

### • Anchor work

Parts of Anchor and Cable, their identification

### Rigging

- Types of ropes and breaking strength- stowing, maintenance and securing of ropes
- Practical Bends and Hitches: Reef Knot, Half hitch, Clove Hitch, Rolling Hitch, Timber Hitch, Bow Line, Round Turn and Two half hitch and Bowline on the Bight and its basic elements and uses
- Introduction to Shackles, Hooks, Blocks and Derricks, Coiling Down and Splicing of rope

### C. Boat work

- Parts of Boat and Parts of an Oar
- Instruction on boat Pulling- Pulling orders
- Steering of boat under oars, Practical instruction on Boat Pulling, Precautions while pulling

OR

### Air

### A. Air frames

- Aircraft Controls
- Landing Gear

### **B.** Instruments

• Basic Flight Instruments

### C. Aircraft Particulars

• Aircraft Particulars (Type specific)

### D. Aero modelling

- History of Aero modelling
- Materials used in Aero modelling
- Type of Aero models Flying/ Building of Aero models

# Skill Enhancement Courses (SEC)

# 5. Foundation Course in Physical Education- II

Sr. No.	Modules	No. of Lectures
1	Development of Fitness	10
2	Health, Fitness and Diseases	15
3	Yoga Education	10
4	Daily Schedule of Achieving Quality of Life and Wellness	10
	Total	60

Sr. No.	Modules / Units
1	Development of Fitness
	Benefits of physical fitness and exercise and principles of physical fitness
	Calculation of fitness index level 1-4
	Waist-hip ratio Target Heart Rate, BMI and types and principles of exercise(FITT)
	Methods of training – continues, Interval, circuit, Fartlek and Plyometric
2	Health, Fitness and Diseases
	Definition of obesity and its management
	Communicable diseases, their preventive and therapeutic aspectS
	Factors responsible for communicable diseases
	Preventive and therapeutic aspect of Communicable and non- communicablediseases
3	Yoga Education
	Meaning and history of yoga
	Ashtang yoga and types of yoga
	Types of Suryanamaskar and Technique of Pranayam
	Benefits of Yoga
4	Daily Schedule of Achieving Quality of Life and Wellness
	Daily schedule based upon one's attitude, gender, age &occupation.
	Basic – module: - Time split for rest, sleep, diet, activity & recreation.
	Principles to achieve quality of life:- positive attitude, daily regular exercise, control over
	food habits & healthy hygienic practices.

# Skill Enhancement Courses (SEC)

# 5. Foundation Course in Physical Education- II

Sr. No.	Modules	No. of Lectures
1	Development of Fitness	10
2	Health, Fitness and Diseases	15
3	Yoga Education	10
4	Daily Schedule of Achieving Quality of Life and Wellness	10
	Total	60

Sr. No.	Modules / Units
1	Development of Fitness
	Benefits of physical fitness and exercise and principles of physical fitness
	Calculation of fitness index level 1-4
	Waist-hip ratio Target Heart Rate, BMI and types and principles of exercise(FITT)
	Methods of training – continues, Interval, circuit, Fartlek and Plyometric
2	Health, Fitness and Diseases
	Definition of obesity and its management
	Communicable diseases, their preventive and therapeutic aspectS
	Factors responsible for communicable diseases
	Preventive and therapeutic aspect of Communicable and non- communicablediseases
3	Yoga Education
	Meaning and history of yoga
	Ashtang yoga and types of yoga
	Types of Suryanamaskar and Technique of Pranayam
	Benefits of Yoga
4	Daily Schedule of Achieving Quality of Life and Wellness
	Daily schedule based upon one's attitude, gender, age &occupation.
	Basic – module: - Time split for rest, sleep, diet, activity & recreation.
	Principles to achieve quality of life:- positive attitude, daily regular exercise, control over
	food habits & healthy hygienic practices.

# Elective Courses (EC)Discipline Related Elective (DRE) Courses

# 6. Commerce I (Business Environment Paper-II)

Sr. No.	Modules	No. of Lectures
1	Business	12
2	Business Environment	11
3	Project Planning	12
4	Entrepreneurship	10
	Total	45

Sr. No.	Modules / Units	
1	Business	
	Introduction: Concept, Functions, Scope and Significance of business. Traditionaland Modern Concept	
	of business.	
	<b>Objectives of Business:</b> Steps in setting business objectives, classification ofbusiness objectives,	
	Reconciliation of Economic and Social Objectives.	
	New Trends in Business: Impact of Liberalization, Privatization and	
	Globalization, Strategy alternatives in the changing scenario, Restructuring and turnaround strategies	
2	Business Environment	
	Introduction: Concept and Importance of business environment, Inter- relationship between Business	
	and Environment	
	Constituents of Business Environment: Internal and External Environment, Educational Environment and	
	its impact, International Environment – Current Trends in the World, International Trading Environment	
	– WTO and Trading Blocs	
	and their impact on Indian Business.	
3	Project Planning	
	Introduction: Business Planning Process; Concept and importance of ProjectPlanning; Project Report;	
	feasibility Study types and its importance	
	Business Unit Promotion: Concept and Stages of Business Unit Promotion, Location – Factors	
	determining location, and Role of Government in Promotion.	
	Statutory Requirements in Promoting Business Unit: Licensing and Registration procedure, Filling	
	returns and other documents, Other important legal provisions	
4	Entrepreneurship	
	Introduction: Concept and importance of entrepreneurship, factors Contributing to Growth of	
	Entrepreneurship, Entrepreneur and Manager, Entrepreneur and Intrapreneur	
	The Entrepreneurs: Types of Entrepreneurs, Competencies of an Entrepreneur, Entrepreneurship	
	Trainingand Development centers in India. Incentives to Entrepreneurs in India.	
	Women Entrepreneurs: Problems and Promotion.	

# Elective Courses (EC)Discipline Related Elective(DRE) Courses

# 7. Business Economics II

Sr. No.	Modules	No. of Lectures
1	Market structure: Perfect competition and Monopoly	10
2	Pricing and Output Decisions under Imperfect Competition	15
3	Pricing Practices	10
4	Evaluating Capital Projects	10
	Total	45

Sr. No.	Modules / Units	
1	Market structure: Perfect competition and Monopoly	
	Perfect competition and Monopoly models as two extreme cases - profit maximisation and the competitive firm's supply curve - Short run and long run equilibrium of a firm and of industry - monopoly - Sources of monopoly power — short run and long- run equilibrium of a firm under Monopoly	
2	Pricing and Output Decisions under Imperfect Competition	
	Monopolistic competition: competitive and monopolistic elements of monopolistic competition - equilibrium of a firm under monopolistic competition, monopolistic competition verses perfect competition- excess capacity and inefficiency - debate over role of advertising ( topics to be taught using case studies from real life examples)  Oligopolistic markets: key attributes of oligopoly - Collusive and non collusive oligopoly market - Price rigidity - Cartels and price leadership models (with practical examples)	
3	Pricing Practices	
	Cost oriented pricing methods: cost – plus (full cost) pricing, marginal cost pricing, Mark up pricing, discriminating pricing, multiple – product pricing - transfer pricing (case studies on how pricing methods are used in business world)	
4	Evaluating Capital Projects	
	Meaning and importance of capital budgeting- steps in capital budgeting - +Techniques of Investment appraisal: Payback Period Method, Net Present Value Method, and Internal Rate of Return Method (with numerical examples)	

### Revised Syllabus of Courses of B.Com.Programme at Semester I and II

### with effect from the Academic Year 2016-2017

### Reference Books

### **Reference Books**

### **Accountancy and Financial Management**

- Introduction to Accountancy by T. S. Grewal, S. Chand and Company (P) Ltd., New Delhi AdvanceAccounts by Shukla&Grewal, S. Chand and Company (P) Ltd., New Delhi
- Advanced Accountancy by R. L Gupta and M Radhaswamy, S. Chand and Company (P) Ltd., New Delhi
- Modern Accountancy by Mukherjee and Hanif, Tata Mc. Grow Hill & Co. Ltd., Mumbai Financial Accounting by LesileChandwichk, Pentice Hall of India AdinBakley (P) Ltd.
- Financial Accounting for Management by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai.
- Financial Accounting by P. C. Tulsian, Pearson Publications, New Delhi Accounting Principles by Anthony, R.N. and Reece J.S.,
  Richard Irwin Inc.
- Financial Accounting by Monga, J.R. Ahuja, GirishAhujaandShehgal Ashok, Mayur Paper Back
- Compendium of Statement & Standard of Accounting, ICAI.
- Indian Accounting Standards, Ashish Bhattacharya, Tata Mc. Grow Hill & Co. Ltd., Mumbai Financial Accounting by Williams, Tata Mc. Grow Hill & Co. Ltd., Mumbai
- Company Accounting Standards by ShrinivasanAnand, Taxman. Financial Accounting by V. Rajasekaran, Pearson Publications, New Delhi. Introduction to Financial Accounting by Horngren, Pearson Publications.
- Financial Accounting by M. Mukherjee.M. Hanif. Tata McGraw Hill Education Private Ltd; New Delhi

#### Commerce

- Business Organisation Management Maheshwari, Rajendra P ,Mahajan, J.P.,International Book House
- Business Organisation, Maheshwari, Rajendra P, Mahajan, J.P., International Book House
- Introduction To Commerce, Vikram, Amit, Atlantic Pub
- A Course Book On Business Environment, Cherunilam, Francis, Himalaya Pub
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- Essentials Of Business Environment, Aswathappa,K., Himalaya Pub
- Essentials Of Business Environment, Aswathappa, Himalaya Pub
- Strategic Management, Kapoor, Veekkas, Taxmann
- Strategic Management, David,Fred R., Phi Leraning
- Strategic Management, Bhutani, Kapil, Mark Pub.
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- Entrepreneurship, Hisrich, Robert D, McGraw Hill
- Entrepreneurship Development, Sharma, K.C., Reegal Book Depot
- Service Marketing, Temani, V.K., Prism Pub
- Service Marketing, Temani, V.K., Prism Pub
- Management Of Service Sector, Bhatia, B S, V P Pub
- Introduction To E Commerce, Dhawan, Nidhi, International Book House
- Introduction To Retailing, Lusch,Robert F.,Dunne,Patrick M., Carver,James R.,Cengage Learning
- Retailing Management, Levy Michael., Weitz Barton A, TataMcgraw Hill

#### **Business Economics**

- Mehta, P.L.: Managerial Economics Analysis, Problem and Cases (S. Chand & Sons, N. Delhi, 2000)
- Hirchey .M., Managerial Economics, Thomson South western (2003)
- Salvatore, D.: Managerial Economics in a global economy (Thomson South Western Singapore, 2001)
- Frank Robert.H, Bernanke. Ben S., Principles of Economics (Tata McGraw Hill (ed.3)
- Gregory Mankiw., Principles of Economics, Thomson South western (2002 reprint)
- Samuelson & Nordhas.: Economics (Tata McGraw Hills, New Delhi, 2002)
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### **Evaluation scheme**

### I Continuous Assessment (C.A.) – 25 Marks

- 1) Internal Assessment (20 Marks)
- 2) Overall Conduct (5 Marks)

### **II .Semester End Examination** - 75 Marks

# Question Paper Pattern for Semester End Examination (Practical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2.5 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions  A) Sub Questions to be asked 10 and to be answered any 8  B) Sub Questions to be asked 10 and to be answered any 7 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Practical Question  OR	15 Marks
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question  OR	15 Marks
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Practical Question  OR	15 Marks
Q-4	Full Length Practical Question	15 Marks
Q-5	A) Theory questions B) Theory questions OR	8 Marks 7 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

### Note

Practical question of 15 marks may be divided into two sub questions of 7/8 and 10/5Marks

# Question Paper Pattern for Semester End Examination (Theoretical Courses)

Maximum Marks: 75

Questions to be set: 05

Duration: 2.5 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular Particular	Marks
Q-1	Objective Questions  A) Sub Questions to be asked 10 and to be answered any 8  B) Sub Questions to be asked 10 and to be answered any 7 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Question  OR	15 Marks
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question  OR	15 Marks
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question  OR	15 Marks
Q-4	Full Length Question	15 Marks
Q-5	A) Theory questions B) Theory questions OR	8 Marks 7 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

### Note

Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5 Marks.

Dr. Ajay Bhamre I/c Dean,

Faculty of Commerce and Management