



**Sri Dharmasthala Manjunatheshwara College**  
(Autonomous), Ujire-574 240, Dakshina Kannada, Karnataka State

## 1.1.3

**Skill / Employability/ Entrepreneurship**



**Criteria 1.1.3**

**Skill / Employability/ Entrepreneurship Components**

**UG**

Sl. No.	Name of the Department	Components	Code , Name of the Paper and Unit	Topic
1	English	Skill components	Paper 3 (OECT 151) Introduction to Phonetics and Linguistics	Transcription and pronunciation
			Paper 1 – OEOE103 Functional English Grammar and Study Skills	Writing skills and reading skills
			Paper 2 –OEOE151 Spoken English for Corporate Jobs	Fluency and Etiquettes Business Speeches Front Desk Managements
			Paper 3 – OEOE152 Speaking and Listening Skills	Presentation skills Formal and Informal Speeches Transcription and Pronunciation
			Paper 4 – OEOE153 Translation Theory and Practice	Types of Translation
		Employability components	Paper 3 (OECT 151) Introduction to Phonetics and Linguistics	Transcription and pronunciation
			Paper 1 – OEOE103 Functional English Grammar and Study Skills	Writing skills and reading skills
			(ENGL201) (AECC)-L3 - Generic English	Presentation skills, official correspondence letters, job applications, Commercial writings



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			(ENGL251) (AECC)-L4 - Generic English	Technical writing, content writing, social media writing skills
			Paper 2 –OEOE151 Spoken English for Corporate Jobs	Fluency and Etiquettes Business Speeches Front Desk Managements
			Paper 3 – OEOE152 Speaking and Listening Skills	Presentation skills Formal and Informal Speeches Transcription and Pronunciation
			Paper 4 – OEOE153 Translation Theory and Practice	Inter Language Translation
2	Kannada	Employability Components	OKOE 201 ಕನ್ನಡ ಮುಕ್ತ ಆಯ್ಕೆ ಪತ್ರಿಕೆ Unit-1	ಭಾಷಾಂತರ ತತ್ವ ಮತ್ತು ಪ್ರಯೋಗ
3	Hindi	Skill components	Sambhashan Kala	Sambhashan Kala
			Hindi Bhasha our Hindi Sahityaka Parichaya	Hindi Bhasha our Hindi Sahityaka Parichaya
			Anuvaad Koushal	Anuvaad Koushal
			Charitra Nirmaan Evam Vyakti Vikaas	Charitra Nirmaan Evam Vyakti Vikaas
		Employability components	Sambhashan Kala	Samvaada Kala & Sambhashana Kala
			Hindi Bhasha our Hindi Sahityaka Parichaya	Sahityakaronka Parichaya
			Anuvaad Koushal	Anuvaad Koushal
			Charitra Nirmaan Evam Vyakti Vikaas	Personality Development



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4	Sanskrit	Skill components	BASO 692 Paper VIII : ANCIENT VEDIC LITERATURE UNIT III	घेरण्डसंहितायाम् प्रथमोपदेशः ।
			BASO 691 Paper VII : DRAMA, GRAMMAR & EASTHETICS. UNIT I	लघुसिद्धान्तकौमुद्याम् कारकप्रकरणम् ।
			BASO 592 Paper VI: INDIAN PHILOSOPHY UNIT III	भारतीयदर्शनानि -तेषु प्रमाणनिरूपणम् ।
			OSOE 101 I PAPER SANSKRIT BHASHAPARICHAYA TATHA KATHASAHITYA	SAMHATHI KARYASADHIKA PURANABALAKARU PRATYUTPANNA MATHITHVAM
			OSOE 201 II Sanskrit Epics	RAMAYANAM MAHABHARATHAM
5	History	Skill components	HTCT 201 Paper V Political History of India (From Indus Culture up to 1206) Unit 1 Chapter II	Debate on Harappan script
			HTCT 201 Paper V Political History of India (From Indus Culture up to 1206) Unit 1 Chapter III	Archaeological evidence - PGW, NBPW Culture
			HTCT 201 Paper V Political History of India (From Indus Culture up to 1206) Unit 1 Chapter VI	Asokan Edicts
			HTCT 202 Paper VI History of Coastal Karnataka and Kodagu Unit 1 Chapter II	Iron and tank irrigation



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			HTCT 202 Paper VI History of Coastal Karnataka and Kodagu Unit 1 Chapter II	Rock Art
			HTOE 201 Freedom Movement in Karnataka (1800-1947) Unit 1 Chapter II	Revolt-Kodagu and South Canara
		Employability components	HTCT 201 Paper V Political History of India (From Indus Culture up to 1206) Unit 1 Chapter I	Pre-Harappan cultures
			HTCT 201 Paper V Political History of India (From Indus Culture up to 1206) Unit 1 Chapter I	Features of Harappan Sites
			HTCT 201 Paper V Political History of India (From Indus Culture up to 1206) Unit 1 Chapter III	Vedic literatures
			HTCT 201 Paper V Political History of India (From Indus Culture up to 1206) Unit II Chapter IV	Formation of urban centers
			HTCT 201 Paper V Political History of India (From Indus Culture up to 1206) Unit III Chapter VII	Chera, Chola and Pandya polity- Chalukyan polity - Guptha polity.
			HTCT 202 Paper VI History of Coastal Karnataka and Kodagu Unit 1 Chapter 1	Geographical Features of Coastal Karnataka and Kodagu
			HTCT 202 Paper VI History of Coastal Karnataka and Kodagu Unit II Chapter VI	Hoysala invasions on Coastal Karnataka and Kodagu
			HTCT 202 Paper VI History of Coastal Karnataka and Kodagu Unit IV Chapter VII	Chikaveera Rajendra – Rajendra Name
			HTOE 201 Freedom Movement in Karnataka (1800-1947) Unit III Chapter VIII	Patel Mirza Pact-Quit India Movement



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			HTOE 201 Freedom Movement in Karnataka (1800-1947) Unit III Chapter IX	Brief Profile of Karnataka Freedom Fighter.
6	Journalism	Skill Components	DSC 1-Introduction to Journalism Unit I	Communication
			Journalistic Writing Skills	Whole Syllabus
			DSE 2- Computer Applications for Media Unit III	MS Office – Word, PowerPoint, Excel, Creating Charts, Graphs and Tables, Use of Computers in Reporting, Editing, Pagination and Printing - DTP, Adobe In Design, Nudi
			Basic Multimedia Skills	Whole Paper
			DSC3 News Reporting and Analysis Unit III	Techniques of News Interviews
			DSC 4: News Processing and Editing Unit III & IV	Whole Units
			OE 1-Writing for Media Unit II, III & IV	All Topics
			OE-3 Feature Writing and Freelancing (Practical Paper)	Whole Paper
		Employability components	DSC 1-Introduction to Journalism Unit I	Career Opportunities in Journalism
			OE-2 Photo Journalism Unit III	Techniques of Photo Editing: Caption Writing; Photo Editing Software
			OE-2 Photo Journalism Unit IV	Mobile Journalism



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			OE 4: Translation for Media	Opportunities in media translations.
7	Home Science	Skill components	HSCT101 Principles of Food and Nutrition- Unit-1&5	1. Meal Planning 2. Methods of Cooking
			HSOE101, Food Preservation-Unit-2&3	1. Methods of Dehydration and Drying 2. Preservation by using Salts, Chemicals and Fermentation
			HSCT151, Fundamentals of Human Development-Unit-Practical	1. Preparation of album on the stages of prenatal development
			HSOE151 , Teaching Materials For Early Childhood Education-Unit-1,2,&3	1. Teaching Materials for Early Childhood Education
			HSCT201, Early Childhood Care and Education-Unit-2 &3	1. Material Management 2. Programme Planning 3. Activities for Young Children 4. Evaluation of parent education program
			HSOE201, Fundamentals of Interior Decoration-Unit-2 & 3	1. Interior Decoration 2. Accessories in Interiors 3. Choice of colour in different rooms
			HSCT251, Introduction to Textiles-Unit-1 &2	1. Basic Weaves 2. Dry Cleaning



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			HSOE251, Fashion Designing-Unit-2 & 3	1. Identification of Fibres 2. Fashion Illustration 3. Principles and its application in dress design
			HSCT101 Principles of Food and Nutrition-Unit-4	1. Food Preservation 2. Food Handling and Storage
			HSOE101, Food Preservation-Unit-2&3	1. Food Preservation and Storage
			HSCT151, Fundamentals of Human Development-Unit-2	1. Preschool Education
			HSOE151 , Teaching Materials For Early Childhood Education-Unit-1,2,&3	1. Teaching Materials for Early Childhood Education
		Employability components	HSCT201, Early Childhood Care and Education-Unit-2 &3	1. Curriculum models and Programme Planning 2. Personnel Management
			HSOE201, Fundamentals of Interior Decoration-Unit-2 & 3	1. Interior Decoration in India 2. Selection and placement of accessories
			HSCT251, Introduction to Textiles-Unit-2 &3	1. Finishing 2. Manufacturing Process 3. Processing of Fabric a. Dyeing b. Printing





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			HSEO251, Fashion Designing-Unit-3	1. Fashion Design 2. Fashion Designer
8	Chemistry	Skill Components	CHCP101- Analytical and Organic Chemistry Practicals - I	All experiments
			CHCP151- Inorganic and Physical Chemistry Practicals - I	All experiments
			CHCP201 –Analytical and Organic Chemistry Practicals - II	All Experiments
			CHCP251- Inorganic and Physical Chemistry Practicals - II	All Experiments
		Employability	CHCT101- Analytical and Organic Chemistry-I- Unit I to IV	All topics
			CHCT151- Inorganic and Physical Chemistry –I – Unit III	1.Liquid state – Surface tension, Viscosity and Refraction 2.Plasma state- Applications of plasma
			CHCT151- Inorganic and Physical Chemistry –I – Unit IV	1.Liquid Crystals-Applications in LCD's and thermal sensing 2.Distribution law- Application in solvent extraction
			CHCT201- Analytical and Organic Chemistry –II – Unit I to IV	All topics
			CHCT251- Inorganic and Physical Chemistry –II – Unit III	1. Heat engine and its efficiency, Carnot cycle, Carnot's theorem 2. Catalysis- Photochemical degradation of waste water
			CHCT251- Inorganic and Physical Chemistry –II – Unit IV	Electrochemistry- I- Applications of conductance measurements
		Skill/Employability	CHOE251- Water –Unit II	Analysis of water pollutants



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			CHOE252- Electrochemistry, Corrosion and Metallurgy-Unit I	1. Electrochemistry- Basic principles of conductometric and Potentiometric titrations 2. Batteries- Working of batteries, Fuel cells
			CHOE252- Electrochemistry, Corrosion and Metallurgy-Unit II	Electroplating
			CHOE252- Electrochemistry, Corrosion and Metallurgy-Unit III	1. Metallurgy- Techniques employed for purification of metals 2. Extraction of metals 3. Alloys
9	Mathematics	Skill components	MACT 101 Number Theory-I, Algebra-I and Calculus-I Unit I	The Greatest Common Divisor (g.c.d), Euclidean Algorithm, Diophantine Equations Binary and Decimal Representation of Integers.
			MACT 101 Number Theory-I, Algebra-I and Calculus-I Unit II	Inverse of matrices by Cayley- Hamilton theorem.
			MACT 101 Number Theory-I, Algebra-I and Calculus-I Unit III	Tracing of curves
			MACT 101 Number Theory-I, Algebra-I and Calculus-I Unit IV	Indeterminate forms and evaluation of limits using L' Hospital rule
			MACT 151: Number Theory-II, Algebra-II and Calculus-II Unit I	Finite continued fractions.



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			MACT 151: Number Theory-II, Algebra-II and Calculus-II Unit IV	Differentiation under the integral sign by Leibnitz rule.
			MACT 201: Ordinary Differential Equations and Real Analysis – I Unit I	Reducible to the exact differential equations. Differential equations of the first order and higher degree: Equations solvable for $p$ , $x$ , $y$ . Clairaut's equation and singular solution.
			MACT 201: Ordinary Differential Equations and Real Analysis – I Unit II	Linear differential equations of the $n^{\text{th}}$ order with constant coefficients
			MACT251: Partial Differential Equations and Integral Transforms Unit I	Formation of a partial differential equations by elimination of arbitrary constants and functions, Solution of partial differential equations – Solution by Direct integration, Lagrange's linear equations of the form $Pp + Qq = R$
			Sem I to Sem IV MACP 101: Practicals on Number Theory-I, Algebra-I and Calculus-I MACP 151: Practicals on Number Theory-II, Algebra-II and Calculus-II MACP 201: Practical on Ordinary Differential Equations and Real Analysis – I MACP 201: Practical's on Partial Differential Equations and Integral Transforms	All the practicals related to the topics



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		Employability components	MACT 101 Number Theory-I, Algebra-I and Calculus-I Unit II	Solution of system of linear equations
			MACT 101 Number Theory-I, Algebra-I and Calculus-I Unit I	The Theory of Congruences, Basic Properties of Congruences, Binary and Decimal Representation of Integers. Linear Congruences and Chinese Remainder Theorem.
			MACT 151: Number Theory-II, Algebra-II and Calculus-II Unit I	finite continued fractions.
			MACT 151: Number Theory-II, Algebra-II and Calculus-II Unit IV	Computation of plane surface areas, volume underneath a surface of revolution using double integral
			MACT 201: Ordinary Differential Equations and Real Analysis – I Unit IV	D’Alembert’s ratio test, Raabe’s test.
			MACT251: Partial Differential Equations and Integral Transforms Unit III	Solution of differential equations by using Laplace transforms.
			MACT251: Partial Differential Equations and Integral Transforms Unit IV	Applications of Fourier Transforms.



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10	Botany	Skill components	BYCP101: MICROBIAL DIVERSITY AND TECHNOLOGY	All topics
			BYCT 151: DIVERSITY OF NON-FLOWERING PLANTS Unit I	Cultivation of microalgae <i>Spirulina</i> and <i>Dunaliella</i> ; Algal products- Food and Nutraceuticals, Feedstocks, food colorants; fertilizers, aquaculture feed; therapeutics and cosmetics; medicines; dietary fibers from algae. Algal blooms and toxins.
			BYOE151: Plant Propagation, Nursery Management And Gardening	Bonsai technique
			BYCP201: Plant Anatomy And Development Biology	Maceration technique to study vascular tissues
		Employability components	BYCP101: MICROBIAL DIVERSITY AND TECHNOLOGY	Practical 8: Preparation of spawn and cultivation of paddy straw (Oyster) mushroom.
			BYCT 151: DIVERSITY OF NON-FLOWERING PLANTS Unit I	Cultivation of microalgae <i>Spirulina</i> and <i>Dunaliella</i> ; Algal products- Food and Nutraceuticals, Feedstocks, food colorants; fertilizers, aquaculture feed; therapeutics and cosmetics; medicines; dietary fibers from algae. Algal blooms and toxins.
			BYOE151: Plant Propagation, Nursery Management And Gardening	All topics
11	Biotech	Skill Components	BTCP 101: Cell Biology & Genetics Practical	All experiments
			BTCP 151: Microbiological Methods & Techniques Practical	All experiments



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			BTCP 201: Biomolecules Practical	All experiments
			BTCP 251: Molecular Biology Practical	All experiments
		Employability	BTCT 101: Cell Biology & Genetics	All experiments
			BTCT 151: Microbiological Methods & Techniques	All experiments
			BTCT 201: Biomolecules	All experiments
			BTCT 251: Molecular Biology	All experiments
		Skill/ Employability	BTOE201: Nutrition and Health	Methods of Cooking
			BTOE251: Intellectual property rights	Financial assistance, schemes, and grants for patenting. Patent infringement-
		Skill components	STCT 201, Calculus and Probability Distributions-Unit 1	Gamma, Beta integral, Maxima and minima function
			STCT 201, Calculus and Probability Distributions-Unit 2	Chebyshev's inequality, WLLN, central limit theorem
			STCT 201, Calculus and Probability Distributions-Unit 3	Discrete and continuous probability distributions



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			STCT 201, Calculus and Probability Distributions-Unit 4	Monte Carlo simulation techniques
			STCT 251, Statistical Inference I-Unit 3	Testing of hypothesis
			STCT 251, Statistical Inference I-Unit 4	Interval estimation
			STOE 201, Basics of O.R.units-I, II and III	Formulation of LPP, Allocation problem and decision theory
			STOE 202, Population studies-units-III	Life tables and population change
			STOE 251, Survival models -units-III	Clinical trials
			STOE 252, Quantitative analysis Techniques-Units –Unit II	Correlation and regression
			STOE 252, Quantitative analysis Techniques-Units –Unit III	Probability Theory
		Employability components	STCT 201, Calculus and Probability Distributions-Unit 3	Discrete and continuous probability distributions
			STCT 201, Calculus and Probability Distributions-Unit 4	Monte Carlo simulation techniques
			STCT 251, Statistical Inference I-Unit 3	Testing of hypothesis
			STCT 251, Statistical Inference I-Unit 4	Interval estimation
			STOE 201, Basics of O.R.units-I, II and III	Formulation of LPP, Allocation problem and decision theory



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			STOE 202, Population studies-units-I, II and III	Introduction and sources of Population data, Fertility, mortality and life tables
			STOE 252, Quantitative analysis Techniques-Units –Unit II	Correlation and regression
13	Psychology	Skill Components	PYH402: Quantitative Research Methods Unit III	Interdisciplinary Methods
			PYH402: Quantitative Research Methods Unit IV	Oral presentation; Poster presentation, publication.
			PYH403: Statistics In Psychology Unit III	Concepts Of SEM (Structural Equation Modeling
			PYH452: Statistics In Psychology Unit IV	Use of computers in statistics - SPSS.
			PYS454: Qualitative Research Methods Unit IV	Use of Soft wares for Qualitative data analysis: ATLAS, R and -----CAQDAS (computer assisted qualitative data analysis software)
			PYH453: Counselling Skills UNIT III	Basic and advanced skills of counselling
			PYS455: Counselling Skills & Field Work Practical	Entire course
			PYS456: Group Counseling Practical	Entire course
			PYH551: Behaviour Modification	Entire course
			<u>PYE458: Dynamics Of Human Behaviour I unit iii</u>	Psychology in everyday life
			PYE460: Personality Development	Entire Paper
			PYH453: Counselling Skills Unit Iii	Basic and advanced skills of counselling
			PYH451: Quantitative Research Methods Unit Iv	Project proposal; project report writing





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		Employability Components	PYH452: Statistics In Psychology Unit Iv	Use of computers in statistics - SPSS.
			PYS455: Counselling Skills & Field Work Practical	Entire course
			PYE508: Thinking and Coping skills	Entire paper
14	Computer Science	Skill components	CACT 102: Programming in C	Entire course
			CACT 103: Mathematical Foundation	Entire course
			CACT 151: Data Structures using C	Entire course
			CACT 152: Object Oriented Concepts using JAVA	Entire course
			CACT 153: Discrete Mathematical Structures	Entire course
			CACT 201: Database Management Systems	Entire course
			CACT 203: Computer Communication and Networks	Entire course
			CACT 253: Operating System Concepts	Entire course
			CSOE 101: Office Automation All Units	Entire course
			CSOE 151: Web Designing All Units	Entire course



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			CSOE 201: Programming in C Concepts All Units	Entire course
			CSOE 251: Python Programming Concepts, E-Commerce All Units	i. Python Programming Concepts ii. E-Commerce
			SBDF 101: Digital Fluency All Units	Entire course
			SBAI 201: Artificial Intelligence All Units	Entire course
			SBOT 201: Open-source tools All Units	Entire course
		Employability components	CACT 101: Fundamentals of Computers All Units	Entire course
			CACT 202: C# and DOT NET Framework All Units	Entire course
			CACT 251: Python Programming All Units	Entire course
			CACT 252: Computer Multimedia and Animation All Units	Entire course
		Skill components	Secretarial Management, Module 1	Skills of a Secretary at entry level, middle level, Higher level



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			Cost and management accounting, chapter-III	Preparation of Process cost sheet
			Principles of Marketing Unit 3	Pricing Process
			Office Management: unit V	The Pivot Table layout
			Human resource management Unit IV and V	Word processing, MSWord interface
			Management principles and application unit 3	Communication
			Cost Accounting Unit I, II and III	Preparation of Cost Sheet, Tenders, fixation of stock levels and preparation of payrolls
			Company secretarial skill-Unit 4	Transpose table, Data table
			Advertising Skills - Unit III	Preparing ads for different media
			Accounting for everyone-III	Accounting equations
			Business Ethics, Unit - III & IV	Marketing Ethics and Ethical issues in Information Technology
			Entrepreneurial Skills, Unit III	Ways to set up an enterprise
		Employability components	Direct Tax - III, Unit II	Tax Liability of Individual Assessee and Online filing of ITR - 1
			Corporate Accounting - I, Unit I	Underwriting of Shares
			Secretarial Management module -4	Inkscape
			Principles of Marketing Unit 4	Advertising and Startups
			Cost and management accounting-unit II	Contract costing



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			Human Resource Management Unit II	Interview, Guidelines for facing interview
			Company secretarial skill-Unit 2	Meeting, Agenda, Minutes of meeting, Quorum
			Office Management: unit V	Graphic Objects and Charts
			Advertising Skills - Unit V	Advertising Agency
			Entrepreneurship Skills, Unit - I	Need of becoming entrepreneur
			Entrepreneurship Skills, Unit - II	Government institutions/schemes promoting entrepreneurs
			Business Ethics, Unit - II & IV	Corporate code of ethics
			Entrepreneurship Skills, Unit - III	Setting up of an Enterprise
16	BBA	Skill Component	BACT 103/Marketing Management/ Unit 3	Marketing Mix
			BACT 152/Human Resource Management/Unit 3	Training
			BACT 201/Cost Accounting /Unit 1	Cost Sheet And Quotations
			BACT101/Management Principles & Practices/Unit 1	Effective Managemet, Managerial Roles, Modern Management Styles
			BACT101/Management Principles & Practices/Unit 2	Evefective Organizing, Authority & Responsibility Handling
			BACT101/Management Principles & Practices/Unit 3	Effective Communication, Effective Leadership, Self Motivation
			BACT101/Management Principles & Practices/Unit 4	Control Measures
			BACT102/ Fundamentals Of Business Accounting/ Unit 1 2 3 4	Preparing Different Books Of Accounts



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			BACT153/Business Environment/Unit 4	Innovations , Technological Advancements
			BACT202/Organizational Behaviour/Unit 4	Od Interventions For Effective Organisation
			BACT202/Organizational Behaviour/Unit 2	Conflict Resolution Techniques
			BACT202/Organizational Behaviour/Unit 5	Technological Interventions
			BACT151/Corporate Accounting And Reporting/5	Financial Statement Analysis
			BAOE 101/ Business Organisation/ Unit 5	Management of organisations
			BAOE 151/People Management Unit 2	Getting work done
			BAOE 201/Social Media Marketing/ All Units 1 -5	Organisational goal accomplishment through media
			FE&AI/ 1-4	How to manage Portfolio
		Employability Components	BACT 103/Marketing Management/ Unit 5	Recent Trends In Marketing
			BACT 152/Human Resource Management/Unit 2	Recruitment And Selection
			BACT 201/Cost Accounting /Unit 1	Cost Sheet And Quotations
			BACT101/Management Principles & Practices/Unit 2	Types Of Organization
			BACT101/Management Principles & Practices/Unit 3	Staffing Process
			BACT153/Business Environment/Unit 3	Mnc'S Job Creation



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			BACT153/Business Environment/Unit 4	Technology Acquisition Models
			BACT153/Business Environment/Unit 2	Foreign Market Entry Strategies
			BACT153/Business Environment/Unit 4	Innovation Types
			BACT102/ Fundamentals Of Business Accounting/ Unit 5	Joho Books Of Accounts
			BACT202/Organizational Behaviour/Unit 4	Individual Behaviours
			BACT151/Corporate Accounting And Reporting/5	Reporting Of Financial Aspects By Using Different Software
			BACT202/Organizational Behaviour/Unit 4	Personality Traits- Impact On Employee Selection.
			BACT203/Statistics for Business decisions/Unit 1	Questionnaire building
			BACT203/Statistics for Business decisions/Unit 1	Decision making based on Numbers.



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			BACT203/Statistics for Business decisions/Unit 3	Marketing surveys
			BAOE 101/ Business Organisation/ Unit 2	Forms of business organisation
			BAOE 101/ Business Organisation/ Unit 5	Management of organisations
			BAOE 201/Social Media Marketing/ All Units 1 -5	Design of Advertisement in social Media
			FE&AI/ 1-4	Self employment through Investing and Participation in Capital Market
17	BVoc – Retail & Supply Chain Management	Skill components	RETAIL MANAGEMENT: BVOCRS 101: UNIT III	Retail planning, developing retailing strategies, Pricing strategies and location strategies
			MANAGERIAL ECONOMICS BVOCRS 102: MODULE II, III, IV	Demand and Elasticity Analysis, Demand Estimation, Elasticity estimation and its business application: Demand forecasting; methods of forecasting; purposes of forecasting.  Cost Analysis: Cost Analysis
			MARKETING MANAGEMENT: BVOCRSP 103, MODULE II, III	Analyzing the marketing environment- Demand forecasting, Product Planning and development, New Product development process, Pricing Strategy: New product pricing strategies.
			FUNDAMENTALS OF VISUAL MERCHANDISING: BVOCRSP 104, MODULE III, IV	Sign Preparation-Props- Mannequins: Handling the Mannequin - Visual merchandising in online retail formats



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			<p><b>RETAIL SELLING SKILLS:</b> BVOCRSP 105, MODULE I, II, III, IV</p>	<p><b>Retail Selling Skills.</b> <b>Manners &amp; Etiquettes:</b> Body Language-Face &amp; Body Expressions-Self Presentation-Voice Modulations <b>Basic Communication Skills:</b> Use of Words-Use of Signs-Communicating First Time with the Customers-Use of Hands. <b>Customer Dealing:</b> How to Build Patience-Developing Listening Skills-Humor in Conversation-Understanding the Customer Need-Anger Control. <b>Conversational Skills</b> <b>Development on Phone:</b> How to Make calls-Answering the Calls <b>Representing the Company-</b> Following the Company's Procedure <b>Stress Management:</b> Handling Complaints-Handling Stress-Keeping Calm in Stress-Overcoming Anxiety <b>Self Introspection:</b> Knowing Self-SWOT Analysis-Discovering own Personality. <b>Refreshing Knowledge.</b> <b>Developing Relationships:</b> Memory Skills-Feedback from Customers.</p>
			<p><b>INVENTORY MANAGEMENT:</b> BVOCRS-152, Module II, III</p>	<p><b>Material Requirement Planning and Execution – Ratio Analysis on Inventory, Manufacturing Planning(MRP), Make or Buy Decisions.</b></p>
			<p><b>SUPPLY CHAIN MANAGEMENT:</b> BVOCRS 154, Module I, III, IV</p>	<p><b>Strategic, tactical, operational decisions in supply chain, Vendor Identification – Selection – Evaluation – Development – Supplier Relationship Management –</b></p>





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				Supplier Quality Management, SCM Relationships.
			Tactics of Retail Business: BVOCRSP 155, Module I, II	Impulse buying tactics, Tactics involved in encouraging impulse buying Tactics used to increase retail sales, Engaging the customers-employee motivation tactics-pricing and promotion tactics. Increasing foot traffic tactics Location tactics, Advertising tactics. Marketing tactics, Communication tactics- Tactics used during pandemic/ natural disaster, Conversion Rate: Both Online and Offline, Fill Rate-Store arrangement- Up selling- Tagging- Customer Care- Customer satisfaction tactics- Digital tactics in retail- Purchase-
			PRINCIPLES OF MANAGEMENT: BVOCRS-201, Module II, IV	Styles of leadership, relation between attitude and behavior
			Advertising and Brand Management: BVOCRSP-203, Module I, II, IV	Media Strategy and Scheduling. Building, measuring, managing Brand Equity, Brand positioning: Developing and communicating a positioning strategy. Brand logo- Brand marketing
			CUSTOMER RELATIONSHIP MANAGEMENT: BVOCRSP-204, Module I, II, III, IV	Attracting and Retaining Customers, Recovery of lapsed customers, Strategies for Customer acquisition. Cultivating Customer Relationship, Contact Management.



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		COMPUTER APPLICATIONS IN RETAIL: BVOCRSP-205, Module I, II, III, IV	Working with files and folders, Understanding the control panel, Module II: Word Processing , III: Spreadsheet: Introduction
		BUSINESS STATISTICS: BVOCRS-251, Module II, III, IV	Collection of Data, Measures of Central Tendency, Simple Correlation and Regression
		Elements of Cost Accounting: BVOCRSP-252, Module II, III, IV	Cost-Volume profit analysis (CVP), Cost allocation and cost apportionment, variance analysis and its comparison with budgetary control
		Market Research: BVOCRSP 253, Module II, III, IV	Research design, Methods of collecting primary data, sampling design – Size and its determinants, Measurements and Scaling in Market Research: Types of Measurements scale – Questionnaire, Data processing and tabulation, Sales analysis – Test Market- Research: Advertising Research .
		Packing and Packaging Management: BVOCRSP-254, Module I,III, IV	Cost Reduction in Packaging, Standardization in Packaging.
		INTERNATIONAL RETAILING: BVOCRS-301, Module I, III, IV	International Marketing Research- Market Analysis, Study and Analysis of Retailing in Global Setting.
		Business Ethics : BVOCRS-302, Module I, II, III	Ethical Decision Making in Business
		Banking & Financial Services: BVOCRS-304, Module: I, III, IV	Bank performance analysis, Issue management – Post and Pre issue management, Process of credit rating, rating methodology.



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			Business communication: BVOCRSP-305, Module I, II, III, IV	process of communication, Oral and written communication, Business letters and reports, Presentation skills, Employment communication, Group communication
			TRANSPORTATION AND DISTRIBUTION MANAGEMENT: BVOCRS-354, Module I, II,III, IV	Designing distribution channels – understanding distribution costs, Distribution Network Planning, selection, Transportation Routing Decisions, cost negotiations.
			CONSUMER BEHAVIOR: BVOCRSP-355, Module I, II,III,IV	Problem recognition, Market segmentation, market segmentation strategies. Post purchase behavior and market regulation
		Employability components	MARKETING MANAGEMENT: BVOCRSP 103, MODULE I, IV	Direct marketing- multi level marketing, Digital marketing , Multi media approach (posters, photographic and video graphic content)- Digital marketing budgeting
			FUNDAMENTALS OF VISUAL MERCHANDISING: BVOCRSP 104, MODULE I, II,	Make Merchandise the Focal Point -Right Choice of colors, Display Basics-Outcome of a Good Display-Rules for Display- Purpose of Display.
			RETAIL SELLING SKILLS: BVOCRSP 105, MODULE I	Personal Selling, Identifying the potential Customers, Receiving & Greeting, Ascertaining the needs and Arousing Interest.
			INVENTORY MANAGEMENT: BVOCRS-152, Module IV	General Management of Inventory



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			FUNDAMENTAL OF ACCOUNTING, BVOCRSP 153, Module I, II, III, IV	Preparation of Books of Accounts: Journals, Ledgers, Subsidiary Books, Preparation of Trial balance. Capital and Revenue Expenditure and Receipt, Preparation of Financial Statements: Preparation of final accounts of sole traders in horizontal form & Vertical form: Bank Reconciliation Statement. Analysis of Financial Statements: Ratio Analysis, Current Ratio, Net Profit Ratio, Liquid Ratio, Stock turnover ratio, Gross profit ratio. Preparation of financial statements using ratios: Hire Purchase.
			SUPPLY CHAIN MANAGEMENT: BVOCRS 154, Module I	The new Manufacturing and Distribution Practices
			Tactics of Retail Business: BVOCRSP 155, Module I, III, IV	Training the staffs, Delivery Time, Payment Terms, Freight & Insurance, Rejections, Damages, Expiries, Cash Discount, Display, Advisors, Testers, Quantity Based, Preparing purchase order. Measures of stores safety to be adopted, Techniques and methods to keep employees healthy.
			PRINCIPLES OF MANAGEMENT: BVOCRS-201, Module I, II	Controlling



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			HUMAN RESOURCE MANAGEMENT: BVOCRS-202, Module I, II, III, IV	Recruitment: Man power planning, Selection- Selection process, Training – Executive Development. Performance Appraisal. Drafting Charge Sheets: Job Analysis: Wage and salary administration.
			Advertising and Brand Management: BVOCRSP-203, Module I, III	Advertisement Campaign
			Elements of Cost Accounting: BVOCRSP-252, Module I	Preparation of cost sheet
			TRANSPORTATION AND DISTRIBUTION MANAGEMENT: BVOCRS-354, Module I, IV	Transportation management, Transportation administration, Transportation operations management
			CONSUMER BEHAVIOR: BVOCRSP-355, Module IV	loyalty marketing
18	BVoc – Digital Media and Film Making	Skill components	BVOCDFM101 Unit-III	Introduction to writing skill, Preparation for writing, Qualities of Writer
			BVOCDFM102 Unit-IV	Introduction to digital marketing   Introduction to social media marketing   Introduction to Social media analytics   Introduction to Facebook algorithm Basic profiling, Introduction to Social media analytics
			BVOCDFM103 Unit-I, Unit-2	Basics of Writing, Character development
			BVOCDFM104 Unit-1, Unit-2, Unit-3, Unit-4	Basics of Microsoft office, Basics of formal writing, Basic internet skills, Personal profiling on social media



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			BVOCDFMP-105 Unit-1, Unit-2	Basic profiling, Story exercises
			BVOCDFMP-151 Unit-IV	Screen play Drafting, Classic Screen play format, Characterisation, Scene Structure, Shooting Script, Writing Dialogues, Use of sound in Script
			BVOCDFMP-151 Unit-III, Unit-IV	Creation of a digital brand, selection of primary media,implementation of tools,sustaining a brand, Content creation and implementation, Obtaining feedback, Content dissemination, Post frequency and scheduling, Hashtags and keywords, Popular timings and participation analyses
			BVOCDFMP-153- Unit-1, Unit-2	Pre Screenplay exercise, Screenplay writing format introduction
			BVOCDFMP-154 Unit-1,II,IV	Profile writing, Creative writing for digital media,News reports, Entertainment stories, Infographics, SEO articles, Research writing, Outsourcing types.Script transcription, Rewriting, Redesigning contents. Creation of blog   Management of previously created social media page



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				Mandatory content creation and updating the blog
			BVOCDFMP-155 Unit-II, III	Blog creation, Blog setup, Writing movie reviews, Writing promotional content, Creating infographics, Entertainment articles
			BVOCDFMP-202 Unit-II	Brand voice and style sheet   logos   taglines   packaging   jingles   digital mascots   colour   design   brand ambassadors   Keywords   Hashtags   Posters   Advertisements
			BVOCDFMP-204 Unit-II,III	Selection of appropriate tools based on a topic   Creation of branding tools, Multimedia implementation in branding   Identifying an area of expertise in branding   Multimedia approach to create an element
			BVOCDFMP-205 Unit-III	Multimedia approach
			BVOCDFMP-251-Unit-IV	Technique of Budgeting, role of director in budgeting, budgeting format.
			BVOCDFMP-252 Unit-III	Designing digital ads   Google and marketing   Social media marketing   E-mail marketing   Audience targeting
			BVOCDFMP-253 Unit-II, III	Understanding direction through mock shoot, aesthetically beautifying scene, collective output visualization Scene break down, scheduling exercise, Casting Process, failing reference for all departments, Costume,



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				location, property management, editing report format writing
			BVOCDFMP-254-Unit-III	Launching a product/service online
			BVOCDFMP-255-Unit-II	Short Movie production
			BVOCDFMP-301-Unit-III	Introduction to Editing Software's, Montage editing, Sound and visual editing
			BVOCDFMP-302- Unit-I,II,IV	web development,Functioning of SEO, Analytical tools, Marketing tools,Content creation tools,Engagement tools, Promotions – organic and paid tools, Facebook Algorithm   Features of ads manager   Polls   Social media management apps   Facebook business manager, Advanced analytical tools   Insights tools and their usage   Apps – Designing an app   Keyword research   OTT platforms
			BVOCDFMP-303- Unit-IV	Production parameters of soap operas and reality show, roles and responsibility of various departments in fiction and non-fictional programmes, Quality of Soap opera and reality show writer. Embedded Advertisement /Sponsership
			BVOCDFMP-305- Unit-1	Editing Software introduction (Adobe Premier), Capturing Raw Data, Editing - Action Sequence/ match cut / continuity match, Working with Multi Layers, Effects, Applying Transitions, Compositing, Video Output





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			BVOCDMF-306-Unit-III,IV	Google analytics   Google marketing tools   SEO marketing   Designing an app   Budgeting for app development, Wordads   Google AdSense   Google +   Google webmaster tools   Adwords keyword planner   Google Trends
			BVOCDMF-307- Unit-II, IV	Translation of reports, Textual interviews for digital media, Video interviews for digital media, News presentation on digital media, Different types of reporting, Types of news photography and videography, Trends in news presentation – podcasts, Creation of B.Voc news website
			BVOCDMF-352- Unit-II,III,IV	Telecasting from studio, Telecasting from live locations, News marketing,  News website establishment   SEO and news   News and keywords   News analytics   News boost on social media   Fact checking and news verification   Tools for news verification, Finding a niche   How to apply   Succeeding in online news media   Case studies of local news media
			BVOCDMFP-355- Unit-II	Planning for a reality show, scripting for reality show, production design for reality show
		Employability components	BVOCDMF101 Unit-IV	Fundamentals of Film Story: Defining Story, Construction of Idea
			BVOCDMF102-Unit-IV	Introduction to social media marketing



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			BVOCDMF103-Unit-IV	Watching stories and review
			BVOCDMFP-105-Unit-3, Unit-4	YouTube as a story presentation platform, Case studies of story tellers on YouTube, Case studies of social media celebrity profiles, : Case studies of social media profiles of movies
			BVOCDMF-151- Unit-II, Unit-III	Stages of Film Production, Fundamentals of Film Screen play
			BVOCDMFP-153- UnitIV	Screenplay Production process
			BVOCDMFP-154-Unit-1V	Creation of blog
			BVOCDMF-201-Unit-II	Camera lenses and their selection
			BVOCDMF-202 Unit-III, IV	Creation of a digital brand   Budgeting   Selection of primary media – Consumer bio and behaviour patterns   Implementation of tools   Sustaining a brand identity   Altering brand identities for different platforms, E-mail branding   Tracking progress   Obtaining feedback   Updating brand identities   Competition analysis   Crisis management   Case studies
			BVOCDMFP-203 Unit-II,IV	Application of camera- Analyzing cinematography (watching cinema and decoding)   Understanding & Applying camera shots &



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				angle, movements  Shot breakdown for a scene & discussion  Shoot a scene, Production- Shooting two minute fiction applying camera & screenplay
			BVOCDMFP-204 Unit-IV	Interaction with a client   Developing a digital brand   Obtaining feedback from client
			BVOCDMFP-205 Unit-2	Developing brand elements, presenting first round of designs to the client along with background, importance and expected outcome of each element, Redesigning elements based on client feedback
			BVOCDMF-251 Unit-III	Production manager, assistant director, associate director, Producer, associate producer, line Producer and other artistic and technical teams.
			BVOCDMF-253 Unit-IV	Directing a scene using elements of direction
			BVOCDMF-254 Unit-I, II, III, IV	Understanding basic tools   Setting up social media ads manager   Implementing Words and Google ads on blog   SEO execution, Case studies of buyer persona   Creating buyer persona   Establishing target audience on social media ads, Designing custom marketing strategy based on requirements Running social media ads   Budgeting   Designing different types of



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				social media ads – carousel, PPC, PPV   Analytics
			BVOCDMF-301 Unit-II	Basic idea of video editing; Different stages of Editing Process – sorting, assemble, rough cut, final cut , Basic concept of Continuity, 180 Degree Rule, 30 degree rule, Rhythm and pace in editing
			BVOCDMF-302 Unit-III	Website template designing   Wordpress and other blogging platforms   CMS   Paid servers and free servers   Chatbots   Semantic keyword search tools   Video hosting   Website analytics
			BVOCDMF-304 Unit-II,IV	Report writing, Report translation Creation of other forms of content , Photography for news websites, Videography for news websites, Multimedia content processing for news websites – Photo and video editing
			BVOCDMF-351- Unit-II	Idea about film market, Market research, Audience research, Methods of film marketing in India, film industry marketing in India case study, film festivals, Film organizations in India, Generation of Reviews.
			BVOCDMF-352- Unit-II	Understanding patterns of new entertainment media, Introduction to web series, types of web series, scripting pattern of web series, organizational structure of web series, case study of popular web series.
19	BVoc – Software and	Skill components	BVOCAS201 - Python for Data Science	<b>Data Analytics including all four modules</b>



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	App Development		BVOCAS102 - Introduction to Internet Programming	Front-end website development in collaborations with industry
			BVOCASP105 - Basic Computer Skills Laboratory	Ms. Word, Ms. Excel, Ms. PowerPoint
		Employability components	BVOCAS304 - DevOps for developers	Working on DevOps Tools including all four modules
			BVOCAS251 - Mobile Application Development	Mini- Project on Mobile Application Development including all four modules
			BVOCAS152 - Database Management System	Back-end Web developer including all four modules
			BVOCAS202 - Object-Oriented Programming with Java	Back-end Java developer including all four modules
			BVOCAS102 - Introduction to Internet Programming	UI Developer including all four modules
			BVOCAS101 - Introduction to Python Programming	Python Developer including all four modules
20	Economics and RD	Skill Components	ECCT 101 - BASIC ECONOMICS I Unit III	Production Analysis Cost and Revenue Analysis:
			ECCT 102- CONTEMPORARY INDIAN ECONOMY, Unit II	Fiscal policy:
			ECCT 102- CONTEMPORARY INDIAN ECONOMY, Unit III	Foreign Trade and Investment
			ECOE 103- BUSINESS ECONOMICS, Unit I	Price elasticity of demand- Law of supply-Elasticity of supply-Demand
			BAECDSC 181- BASIC ECONOMICS –II, Unit I	Macroeconomic model Inflation: Poverty and Public policy



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			BAECDSC 182- KARNATAKA ECONOMY, Unit I	State Income: Human and natural resources State Finance
			BAECOEC 183-C - MONETARY ECONOMICS, Unit I	Inflation New age banking Process of Creation of money by commercial bank.
		Employability Components	ECCT 101 - BASIC ECONOMICS I Unit I	Role of an Economist
			ECOE 103- BUSINESS ECONOMICS, Unit I	Economic laws and business environment:
			BAECDSC 182- KARNATAKA ECONOMY, Unit I	Agriculture in Karnataka Infrastructure in Karnataka Social Infrastructure



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Sl no	Department	Components	CodeNumber, Name of the Paper, and Unit	Topic
1	<b>English</b>	Skill components	ENG02HC British Literature: Eighteenth and Nineteenth Century Unit I	Neo Classicism, Periodical Essays, Rise of the Journal and Rise of the Novel
			ENG05HC Introduction to English Language and Linguistics Unit II, Unit III	Language and Human Communication <b>Linguistic Analysis of English:</b> <b>Phonological</b> : Organs of Speech; phone, phoneme and allophones; English Vowels and Consonants, diphthongs and Triphthongs; IPA and Phonetic Transcription. Syllable, accent and rhythm. <b>Morphological:</b> Morph, Morphemes: free and bound, derivational and inflectional, prefixes and suffixes, allomorphs. <b>Syntactic:</b> Sentence and the parts: words, phrases and clauses; sentence combining;noun phrase and verb phrase. <b>Semantic:</b> Polysemy, synonymy, Antonymy, hyponymy and idioms.



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				Acceptable, Interpretable, ambiguous sentences <b>Discourse</b> : Cohesion / Coherence
			ENG09HC Literary Criticism: Plato to F R Leavis Unit III	<b>Cleanth Brooks</b> : Chapter 'The Language of Irony and Paradox' from <i>The Well Wrought Urn</i> . David Lodge, p 292 – 304. <b>T S Eliot</b> : 'Tradition and Individual Talent'
			ENG13OE Functional English Unit I, Unit II, Unit III	Background to writing; Developing plans from titles; Evaluating a text; Understanding purpose; Selecting key; Note-making; Paraphrasing; Summary writing; Combining sources; Planning a text; Organizing a paragraph; Organizing the main body; Introduction; Conclusions; Re-reading and re-writing; Proof reading.  Abbreviations; Adverbs; Articles; Caution; Conjunctions; Formality in Verbs; Modal Verbs; Nouns and Adjectives; Countable and uncountable nouns; Passives; Prefixes and suffixes; Prepositions; Prepositions after Verbs;





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				<p>Punctuation; Relative Pronouns; Singular / Plural; Tenses; Idioms and Phrases.</p> <p>Orientation to group discussion; Preparing for the Job Interview - The First Interview, Stress and behavioral Interviews; Designing and reporting surveys; PPT; Speech</p>
		Employability components	<p>ENG05SC</p> <p>Introduction to English Language and Linguistics</p> <p>Unit II</p>	<p>Introduction to Linguistics: Different Schools – Traditional, Descriptive/ Structural, Tagmemic and Systemic. Transformational - Generative Grammar and Case Grammar.</p>
			<p>ENG13OE</p> <p>Functional English</p> <p>Unit III</p>	<p>Formal Letters – Letter of Leave, Letter of Complaint, Placing an order and cancellation, Letter of confirmation, Letter of enquiry, Letter of appointment; CVs; Essays – Comparative, Argumentative, Descriptive; Minutes Writing; Precise writing.</p>
2	M.Com - IBM	Skill Component	IBHC 1.1 Accounting Theory & Practices(Unit-3)	Final Accounts of Companies
			IBHC 2.3 Direct Tax Law & Practice(unit-5)	Filing of Returns
			IBHC 2.4 Advanced Financial Management(Unit-3)	Financing Decisions
		Employability components	IBOE 3.1 Banking Practices(Unit-4)	Career in Bank
			IBSC 1.3 Indian Banking System(Unit -4)	Financial Inclusion
			IBHC 1.2 Business Research Analytics(Unit-1)	Data Analytics



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3	M.Com		IBHC 2.2 Accounting Standard & Financial Reporting(Unit-5)	Financial reporting
			IBHC 3.2 Accounting for Financial Institutions(Unit-2)	Accounting for Insurance Companies
		Skill Component	CMHC 1.1 Accounting Theory & Practices(Unit-3)	Final Accounts of Companies
			CMHC 2.3 Direct Tax Law & Practice(unit-5)	Filing of Returns
			CMHC 2.4 Advanced Financial Management(Unit-3)	Financing Decisions
			CMHC 4.3 Retail Management(Unit-2)	Retailing Strategy
			CMSC 2.5 Marketing Management(Unit-5)	Managing Communication and Logistics
			CMSC 2.6 Organizational Behaviour(Unit-4)	Conflict Management
			CMSC 3.5 Accounting for financial Decisions(Unit-1)	Investment Accounts
			CMSC 3.6 Security Analysis & Portfolio Management(unit-5)	Portfolio Analysis and Selection
			CMSC 3.5A Strategic Human Resource Management(Unit-3)	Employee Training and Executive Development
		Employability components	CMHC 1.2 Business Research Analytics(Unit-1)	Data Analytics
			CMHC 1.3 Strategic Management(Unit-4)	Formulation of SBU strategy.
			CMHC 2.2 Accounting Standard & Financial Reporting(Unit-5)	Financial reporting
			CMHC 3.3 Entrepreneurship development (unit-5)	Project Identification and Selection



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4	Biotech		CMHC 3.4 International Business Environment(Unit-4)	International Trade Procedure and Logistics Management
			CMSC 1.5- E-commerce & Cyber Laws(Unit-3)	Electronic market and E-Payments
			CMOE 3.1 Entrepreneurship Development & Start up(Unit-2)	Creation of an Enterprise
			CMSC 3.6A Management of Industrial Relations-I(Unit-3)	Industrial Employment
		Skill components	BTH402 Microbiology Unit II & III	Various isolation precautions including standard and transmission based precautions In-depth knowledge about various method of Sterilization, and disinfection
			BTH502 Unit I Animal Biotechnology	General safety measures Personal protection
			BTS554 Food Biotechnology Unit I	Fermented & functional foods
	Biotech	Employability components	BTH402 Microbiology Unit II & III	Applications of quality assurance, quality control in microbiology and accreditation of laboratories
			BTH452 Genetic Engineering Unit I & II	Techniques for isolation, handling and processing of nucleic acids Principles of nucleic acid hybridization Gel electrophoresis techniques Enzymes used in gene manipulation, features of plasmid vectors and DNA cloning, transformation assay



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			BTH502 Animal Biotechnology Unit I ,II& III	Cell isolation techniques by physical method Trypsinization Viabilitycheck  Toxicity assessment & Determination of LD50
			BTH551 Immunology Unit III & IV	Antigen and antibody reactions employed in diagnostics Antibody purification methods
			BTS455 Bioanalytical techniques Unit I & II	Instrument handling & trouble shooting
5	Statistics	Skill Components	STH 411, Real Analysis, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts of Real Analysis.
			STH 422, Probability and Distributions - II, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts of Probability and Distributions.
			STH 424, Theory of Estimation, Unit-1, Unit-2, Unit-3 & Unit-4	Estimation Techniques.
			STH 532, Theory of Testing of Hypothesis, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Hypothesis Testing.
			STH 534, Multivariate Analysis, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Multivariate Analysis.
			STH 541, Time Series Analysis, Unit-1	Concepts and Techniques of Time Series Analysis.
			STH 413, Probability and Distributions – I, Unit-3	Probability Distributions and Transformation Techniques.
			STH 423, Design and Analysis of Experiments, Unit-1, Unit-2, Unit- 3 & Unit-4	Concepts and Techniques of Design and Analysis of Experiments.
			STH 423, Design and Analysis of Experiments, Unit-1, Unit-2, Unit- 3 & Unit-4	Concepts and Techniques of Design and Analysis of Experiments.
			STH 532, Theory of testing of Hypothesis, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Hypothesis Testing.
			STH 534, Multivariate Analysis, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Multivariate Analysis.



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		STS 412, Linear Algebra, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts of Linear Algebra.
		STE 421 B, Questionnaire design and Sample selection, Unit-3.	Types of questionnaire. Sampling techniques.
		STE 421 C, Data visualization. Unit-3	Correlation plot, scatter plot matrix, Parallel coordinate plot, star plot.
		STS 425, Data Management and Statistical Computing with Python, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Artificial Intelligence.
		STE 531A, Inferential Statistics and Data Analysis, Unit-1, Unit-2 & Unit-3	Concepts and Techniques of Inferential Statistics.
		STE 531 B, Categorical Data Analysis, Unit1, Unit2 and Unit3.	All the concepts of Categorical Data analysis
		STE 531 C, Demographic method and Analysis, Unit 2	Measures of fertility
		STS 535, Stochastic Processes, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts of Stochastic Processes.
		Value added Course on R and Excel for data science, Section 1 and section 4	All the topics
		STE 421A, Introductory Statistics and Data Analysis, Unit-1 & Unit-3  STE 531A, Inferential Statistics and Data Analysis, Unit-1, Unit-2 & Unit-3  Value added Course on R and Excel for data science, Section 2 STE 421 B, Questionnaire design and Sample selection, Unit-2. STE 421 C, Data Visualization, Unit1 STE 531 B, Categorical Data Analysis, Unit3 STE 531 C, Demographic method and Analysis, Unit 3	All the topics



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			Value added course on R and Excel for data science, Section 2 Value added course on R for Advanced Statistical Methods and Machine Learning, Section 1 and 2 All the topics	
			STE 421 B, Questionnaire design and Sample selection, Unit-3.	Sampling method, Sample size determination
			STE 421 C, Data visualization. Unit-1 and Unit-3	Selection of univariate and multivariate graphs.
			STE 531 B, Categorical Data Analysis, Unit2.	Analyzing and interpreting
			STE 531 C, Demographic method and Analysis, Unit 1	Data collection through surveys.
			Value added course on R and Excel for data science, Section 3	All the topics
			Value added course on R for Advanced Statistical Methods and Machine Learning, Section 1 and 2	All the topics
			STE 421 C, Data visualization. Unit-2	Identification of suitable graphs.
			STE 531 B, Categorical Data Analysis, Unit2.	Analysis of three way table
			STE 531 C, Demographic method and Analysis, Unit 2 and Unit3	Measures of fertility, measures of mortality
			Value added course on R and Excel for data science, Section 3 and section 4	All the topics
		Employability components	STH 533, Unit-1, Unit-2, Unit-3, Unit-4 & Unit-5	Concepts and Techniques of Regression Analysis.
			STH 534, Unit-3 & Unit-4	Concepts and Techniques of Multivariate Analysis.
			STH 541, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Time Series Analysis.
			STH 542, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Reliability and Survival Analysis.



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			STE 421 B, Questionnaire design and Sample selection, Unit-1 and Unit-3.	Preparation of questionnaire and sampling techniques.
			STE 421 C, Data visualization. Unit-2 and Unit-3	Identification of suitable plots, Selection of univariate and multivariate graphs.
			STS 425, Data Management and Statistical Computing with Python, Unit-1, Unit-2 & Unit-3	Python Programming Paradigms for Data Management and Statistical Computing.
			STE 531 B, Categorical Data Analysis, Unit3.	Identifying the models
			STE 531 C, Demographic method and Analysis, Unit 3	Life tables, expectation of life tables.
			STS 543, Statistical Modelling, Unit-1, Unit-2 & Unit-3	Concepts and Techniques of Statistical Modelling.
			STS 544, Big Data Analytics, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Big Data Analytics
			Course on R and Excel for data science, Section 4	All the topics
			Course on R for Advanced Statistical Methods and Machine Learning, Section 1 and 2	All the topics
6	Physics	Skill components	PHH 401 Methods of Mathematical Physics I, Units I to IV	Vector calculus, Complex analysis, PDEs, Special functions.
			PHH 451 Mathematical Physics II & C Programing, Units II, III & IV in particular	Numerical techniques, C programing
			PHP 557 Project work	Student project
			PHS 553 Condensed Matter Physics III, Unit IV	Nanomaterials& technology
			PHS 506 Electronics II, Unit III, IV	Modulation, communication, antenna, satellite communications





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		Employability components	PHC1 Research Methodology & Computational Techniques, Unit IV	LATEX, Mathematica, Matlab, Origin
			PHH 501 Atomic & Molecular Physics, Units II, III & IV	X ray spectroscopy, NMR, Raman & ESR spectroscopy
			PHH 551 Laser Physics, Vacuum techniques & Cryogenics, Units III & IV	Vacuum technology, cryogenics, pressure & temperature gauges
			PHS 503 Condensed Matter Physics I, Unit I	Crystallography, XRD techniques
			PHS 504 Electronics I, Unit III & IV	Microcontrollers, architecture, peripherals
			PHS 554 Electronics IV, Unit I, II	PCB design, fabrication, semiconductor devices
			PHS 555 Condensed Matter Physics IV	Thin film technology, Polymers, LCDs
7	Economics	Skill Components	EcH-1.2: MACRO ECONOMIC ANALYSIS, Unit I, Unit II	Understanding Trends in National Income – Green Accounting Sticky Wage – Price Models – Policy Issues – Relevance – Dynamic Disequilibrium Explaining Fluctuations with the IS-LM Model
			EcH-1.3: ECONOMICS OF GROWTH AND DEVELOPMENT, Unit I, Unit IV	Human developments index Technological progress – embodied and disembodied technical progress
			EcS-1.5: ECONOMICS of INSURANCE, Unit I, Unit II, Unit V	Life and Health Insurance Pricing Fundamentals – The Savings Aspects of Life Insurance – Experience Participation in Insurance - Tariffs and Non-Tariffs, Marketing of General Insurance – Technology Development and General Insurance.  Insurance: Marketing and Regulation



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			EcS-1.6: AGRICULTURAL ECONOMICS	Food security in India and public distribution system.
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			EcS-1.7 : MAN POWER ECONOMICS	methods of recruitment and placement; employment; employment service organization in India.
		Employability	EcH-2.3: STATISTICAL ANALYSIS IN ECONOMICS.	Analysis of data Simple Correlation Regression Analysis
8	Biotech	Skill components	BTH402 Microbiology Unit II & III	Various isolation precautions including standard and transmission based precautions In-depth knowledge about various method of Sterilization, and disinfection
			BTH502 Unit I Animal Biotechnology	General safety measures Personal protection
		Employability components	BTH402 Microbiology Unit II & III	Applications of quality assurance, quality control in microbiology and accreditation of laboratories
			BTH452 Genetic Engineering Unit I & II	Techniques for isolation, handling and processing of nucleic acids Principles of nucleic acid hybridization Gel electrophoresis techniques Enzymes used in gene manipulation, features of plasmid vectors and DNA cloning, transformation assay



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			BTH502 Animal Biotechnology Unit I, II & III	Cell isolation techniques by physical method Trypsinization Viability check Toxicity assessment & Determination of LD50
			BTH551 Immunology Unit III & IV	Antigen and antibody reactions employed in diagnostics Antibody purification methods
9	JMC	<b>Skill components</b>	JMC H 1.1, JMC H 1.2, JMC H 1.3, JMC S 1.1, JMC S 1.2, JMC CC, JMC H 2.1, JMC H 2.2, JMC H 2.3, JMC S 2.1, JMC S 2.2, JMC CC, JMC O E 2.1, JMC O E 2.2, JMC O E 2.3, JMC H 3.1, JMC H 3.2, JMC S 3.1, JMC S 3.2, JMC S 3.3, JMC O E 3.1, JMC O E 3.2, JMC O E 3.3, JMC H 4.1, JMC S 4.1, JMC S 4.2, JMC S 4.3, JMC S 4.4, JMC S 4.5	<b>Identified in all Papers of JMC</b>
		<b>Employability components</b>	JMC H 1.2: Full Paper	Reporting for Media
			JMC S 1.1: Full Paper	Advertising
			JMC S 2.1: Full Paper	Photo Journalism
			JMC O E 2.2: Full Paper	News Reading & Anchoring
			JMC H 3.1: Full Paper	Corporate Communication
			JMC H 3.2: Full Paper	Film Direction and Production
			JMC S 3.1: Full Paper	Media Marketing
			JMC S 3.2: Full Paper	Business Journalism
			JMC O E 3.1: Full Paper	Writing for Media
			JMC O E 3.2: Full Paper	Radio Jockey
			JMC H 4.1: Full Paper	New Media Technology
			JMC S 4.1: Full Paper	Media Management
			JMC S 4.2: Full Paper	Radio Broadcasting
			JMC S 4.3: Full Paper	Television Production
			JMC S 4.5: Full Paper	Development Communication



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		<b>Entrepreneurship</b>	JMC S 1.1: Full Paper	Advertising
			JMC S 2.1: Full Paper	Photo Journalism
			JMC O E 2.2: Full Paper	News Reading & Anchoring
			JMC H 3.2: Full Paper	Film Direction and Production
10	Psychology	Skill Components	PYH402:QUANTITATIVE RESEARCH METHODS Unit III	Interdisciplinary Methods
			PYH403: Statistics in Psychology Unit III	Use of computers in SPSS
		Employability components	PYH453: Counselling Skills All the units	All the topics
11	MSW	Skill Components	SWS404-A: DYNAMIC SOCIAL BEHAVIOUR Unit IV	Life span
			SWS 404 B – Communication skill for social work practice All the units	All the topics
			SWS 454 A: Social work in various settings Unit III and IV	Whole unit
		Employability components	SWS 454 A: Social work in various settings Unit I and II	Whole unit
			SWS 454 B : Human Rights All the units	All the topics

**Registrar (Admn)**

