



Sri Dharmasthala Manjunatheshwara College
(Autonomous), Ujire-574 240, Dakshina Kannada, Karnataka State
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1.1.3

Skill / Employability/ Entrepreneurship **Components**



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Criteria 1.1.3

Skill / Employability/ Entrepreneurship Components

PG

Name of the Course & Code	Topics in the syllabus which Highlight the above issues (write in Bullet forms)			List out <u>activities</u> with direct bearing on Employability/Entrepreneurship/Skill development(attach link of the activities)		
	Employability	Entrepreneurship	Skill components	Employability	Entrepreneurship	Skill components
CH/OC H 401, Inorganic Chemistry, Unit II						
	- Boranes, Inorganic polymers - Interpretation of spectra	--	- Titration, sampling techniques - Interpretation of spectra			Project on Methods for analysis of raw material
CH/OC H 402, Organic Chemistry, Unit I	--	Crown ether complexes	--			
CH/OC H 403, Physical Chemistry, Unit II	--	--	Fast reaction techniques			Project on Kinetics and Equilibrium Study of Methylene Blue Dye by NaOH Activated Carbon
CH/OC H 404, Spectroscopy, Unit III	--	Interpretation of spectra	Interpretation of spectra			Project on Synthesis and characterization of MXenes
CH/OC S 405, Methods of Analysis, Unit II	Instruments (TGA, DTA, DSC, GCMS, HPLC & LCMS)	- Instruments (TGA, DTA, DSC, GCMS, HPLC & LCMS) - Solvent	- XRD, Thermoanalytical Techniques - Solvent Extraction and	Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed	Industry – Institutional visit to the Department of Chemistry	Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production



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		Extraction and Chromatography	Chromatography	National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.	y, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.	industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.
CH/OC S 406, Environmental Chemistry, Unit II	BOD, COD, TOC	- Air pollution analysis - Waste Water treatment	Waste Water treatment	Environmental Day Celebration https://docs.google.com/document/d/1Wequ7d4PYEgtB3NhaWgle6BhfTD30wXK/edit?usp=drive_link&ouid=103599910594359267119&rtpof=true&sd=true	National Pollution Day Celebration https://docs.google.com/document/d/1Wequ7d4PYEgtB3NhaWgle6BhfTD30wXK/edit?usp=drive_link&ouid=103599910594359267119&rtpof=true&sd=true	Environmental Day Celebration https://docs.google.com/document/d/1Wequ7d4PYEgtB3NhaWgle6BhfTD30wXK/edit?usp=drive_link&ouid=103599910594359267119&rtpof=true&sd=true



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CH/OC P 407, Inorganic Chemistry Practicals-I	--	--	• Qualitative analysis of inorganic salts			Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.
CH/OC P 408, Organic Chemistry Practicals-I	•	• Single stage organic preparations	• Single stage organic preparations	Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.	Project on Synthesis and characterisation of chalcone derivatives	Project on Synthesis and characterization of pyrazol endowed chalcone
CH/OC P 409, Physical Chemistry Practicals-I	--	--	• Potentiometric and conductometric titrations, determination of pH, Viscosity	Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and		Project on Analytical study on characterisation and identification of Difenconazole



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				Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.		
CH/OC H 451, Advanced Inorganic Chemistry, Unit II	• Reduction of oxides of ores	• Reduction of oxides of ores	--			special talk on "Cracking NET/SET? Is it really that easy?" by an eminent resource person Dr. Mahagundappa R. Maddani, Assistant Professor, Department of Chemistry, Mangalore University, Mangalagangothri. https://docs.google.com/document/d/1Wequ7d4PYEgtB3NhaWgle6BhfTD30wXK/edit?usp=drive_link&ouid=103599910594359267119&rtpof=true&sd=true
CH/OC H 452, Advanced Organic Chemistry, Unit III	• Synthesis of Heterocyclic compounds	• Synthesis of Heterocyclic compounds	• Synthesis of Heterocyclic compound	Two days National Conference on Advanced Materials for Chemical and Biological Applications (NCAMCB A-2024) https://docs	Project on Synthesis of (E)-1-(2,7-dichloroquinolin-3-yl)-N(2,4-dimethylphenyl)methanamine	Wall magazine on Chemistry approaches in drug discovery and treatment



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				google.com/document/d/1Wequ7d4PYEgtB3NhaWgle6BhfTD30wXK/edit?usp=drive_link&ouid=103599910594359267119&rtpof=true&sd=true		
CH/OC H 453, Advanced Physical Chemistry, Unit I	--	• Applications of cyclic voltammetry, coulometry and amperometry	• Irreversible thermodynamics for biological systems • Applications of cyclic voltammetry, coulometry and amperometry		Project on Electrochemical sensing of lactochrome using poly asparagine layered carbon based sensor	Project on Voltametric assessment of paracetamol on a CuONPs-MWCNTs modified glassy carbon electrode
CH/OC S 455, Chemistry of Biomolecules, Unit II	• Amino acids, nucleic acids and enzyme, electrophoresis	• Carbohydrates	--			Food Carnival
CH E 456, Colour Chemistry: Applications in Daily Life, Unit I, II & III	• Synthetic Dyes, Paints & Pigments and Colorants in	• Synthetic Dyes, Paints & Pigments and Colorants in	--	Project on Evaluation of low temperature pre-treatment for OEM	Project on Evaluation of low temperature pre-treatment	Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an



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	Cosmetic s & High Technolo gy	Cosmetic s & High Technolo gy		industries	for OEM industrie s	API production industry, Chennai, Tamil Nadu from 13- 12-2023 to 17-12-2023.
CH E 457, Environmental Chemistry for sustainable future, Unit III	--	• Qualitativ e study of environm ental segments, • Toxic chemicals in the environm ent, Sewage water treatment	• Qualitativ e study of environme ntal segments, • Toxic chemicals in the environme nt, Sewage water treatment		Project on Water quality analysis of river chaliyar using physco - chemical paramete rs	Project on Water quality analysis of river chaliyar using physco - chemical parameters
CH E 458 Chemistry in the Community, Unit III	--	• Human body's internal chemistry , Chemistr y and the atmosphe re • Quality of water, purificati on and treatment	• Quality of water, purificatio n and treatment		Wall magazine on Chemistr y in humans	World Environment Day Celebration https://docs.google.com/document/d/1Wequ7d4PYEgtB3NhaWgle6BhfTD30wXK/edit?usp=drive_link&ouid=103599910594359267119&rtpof=true&sd=true
CH/OC P 459, Inorganic Chemistry Practicals - II	--	• Gravimetr ic, Colorimet ric and ore estimations	• Complexo metric determinat ion • Gravimetri c, Colorimetr ic and ore estimation			Project on Methods for analysis of raw material
CH/OC P 460, Organic Chemistry	--	--	• Analysis of organic binary			Project on Synthesis, isolation and characterisation of



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Practicals - II			mixtures			Carvedilol intermediates
CH P 461, Physical Chemistry Practicals - II	--	--	• Kinetic, thermodynamics experiments, adsorption isotherms, computational experiments			Project on Synthesis, Characterisation and Adsorption Study of ZnCl ₂ activated carbon prepared from Coconut shell.
CH H 501, Coordination Chemistry, Unit II	• Magnetic behavior of coordination complexes and determination	--	--			
CH H 502, Reaction Mechanisms and Synthetic Methods, Unit III	• Organic named reactions, oxidation and reduction reactions	--	--	Project on Development of new synthetic methodologies for the isatin derived para-quinone methides	Project on Development of new synthetic methodologies for the isatin derived para-quinone methides	
CH H 503, Solid State Chemistry, Unit III	• Insulators, magnetic materials, liquid crystals and super	--	--	Nano Jatha		



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	conducting materials					
CH/OC S 504, Chemistry of Synthetic Drugs, Unit I, II & III	Synthetic drugs	Synthetic drugs	Synthetic drugs	Ms. Vanishree A L has published a paper entitled "Synthesis and biological evaluation of novel hybrid compounds bearing pyrazine and 1,2,4-triazole analogues as potent antitubercular agents" in RSC Pharmaceutics with DOI: 10.1039/d3pm00054k		
CH/OC S 505, Computational and Theoretical Chemistry, Unit II & III	--	- Use of computational software: SCF semiempirical methods, Ab initio methods and DFT - In-silico and	- Use of computational software: SCF semiempirical methods, Ab initio methods and DFT - In-silico and Computer	Project on Invitro and In-silico studies of 2,3,5-trisubstituted thiazolidine derivatives as potential alpha amylase, alpha-		Laxmi F Patil presented In silico Molecular Docking Study of Drugs derived from Marine sources, International multidisciplinary Symposium on 'The Role and Future of Artificial Intelligence in Human Behaviour, Department of PG Studies and Research in psychology, SDM



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		Computer Aided Drug design	Aided Drug design	glucosidase , HAR and HSA inhibitors-NV Series		College (Autonomous), Ujire, 4th and 5th December 2024.
CH E 506 Biomolecules and Medicines, Unit I	Synthetic drugs, Metals in Medicine	Synthetic drugs, Metals in Medicine	--	Project on Synthesis and characterisation of Nitrosocompounds for API's		
CH E 507 Chemistry of Materials, Unit I, II & III	Cementitious Materials, Ceramic Materials, Composite Materials, Bio-materials, Superconducting Materials and Polymers	Cementitious Materials, Ceramic Materials, Composite Materials, Bio-materials, Superconducting Materials and Polymers	Cementitious Materials, Ceramic Materials, Composite Materials, Bio-materials, Superconducting Materials and Polymers	Nano Jaatha https://docs.google.com/document/d/1Wequ7d4PYEgtB3NhaWgle6BhfTD30wXK/edit?usp=drive_link&ouid=103599910594359267119&rtpof=true&sd=true		
CH E 508, Food Chemistry, Unit II	- The Science of cooking - Food, nutrition & food additives	- The Science of cooking - Food, nutrition & food additives	The Science of cooking	Food Carnival	Guest lecture on the topic Food and Nutrition . Ms. Shobha S, Assistant Professor and HOD Department of Home Science SDM	



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					College Ujire https://docs.google.com/document/d/1Wequ7d4PYEgtB3NhaWgle6BhfTD30wXK/edit?usp=drive_link&ouid=103599910594359267119&rtpof=true&sd=true	
CH P 509, Inorganic Chemistry Practical-III	Analysis of mixtures of metal ions and analysis of water, soil and detergents	Analysis of mixtures of metal ions and analysis of water, soil and detergents	Analysis of mixtures of metal ions and analysis of water, soil and detergents	Project on Analysis of Praziquante 1 By HPLC Method		
CH P 510, Organic Chemistry Practical-III	--	Multistep organic synthesis and quantitative determination of organic compounds	Multistep organic synthesis and quantitative determination of organic compound		Project on Synthetic study towards 5-bromo-N-(1H imidazole 2yl)quin oxaline-6-amine	Project on Synthesis and characterisation of Benzimidazole derivatives
CH P 510, Physical Chemistry	--	Conductometric & Potentiometric	Conductometric & Potentiometric		Project on Analytical study	Project on Analytical study on characterisation and identification of



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Practical-III		etric determina tions of acids, polymer parameter determina tion	determinat ions of acids, polymer parameter determinat ion		on character isation and identifica tion of Difenoco nazole	Difenoconazole
CH H 551, Bioinorganic Chemistry, Unit I	• Metalloen zymes, transport proteins	--	--	Project on Synthesis and Characteris ation of metal(II) complexes with NN Donor ligand derived from 2 [3- cyano-4-(2- methyl propoxy) phenyl]-4- methyl- 1,3- thiazole-5- carbohydra zide		
CH H 552, Molecular Rearrangeme nts & Heterocyclic Chemistry, Unit I	• Heterocyc lic Chemistr y	--	• Retrosynth etic analysis	Project on synthesis, characteriza tion and antimicrobi al assessment of novel hybrid compound incorporatin g pyrazine and 1,2,4- triazole moieties		



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CH H 553, Polymers & Photochemistry, Unit II	• Biodegradable polymers, conducting polymers, drug delivery polymers	• Biodegradable polymers, conducting polymers, drug delivery polymers	--	Guest lecture on "Advance Polymer Blends and Composites for Industrial Applications" by Dr. Kalappa Prashantha, Professor, ACU – Centre for Research and Innovation, Dean, Faculty of Natural Sciences, Adicunchanagiri University B G Nagara https://docs.google.com/document/d/1Wequ7d4PYEgtB3NhaWgle6BhfTD30wXK/edit?usp=drive_link&ouid=103599910594359267119&rtpof=true&sd=true		
CH S 554, Nuclear, Surface & Nano Chemistry,	• Nano materials	• Nano materials	--	Nano Jaatha https://docs.google.com/document/		special talk on Nano and Soft Matter Sciences by an eminent resource person Dr. Ramya Prabhu B,



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Unit III				d/1Wequ7d4PYEgtB3NhaWgle6BhfTD30wXK/edit?usp=drive_link&ouid=103599910594359267119&rtpof=true&sd=true		Researcher, Prayoga Institute of Education and Research, Bengaluru
CH S 555, Organometallic Chemistry, Unit II	--	Organic synthesis via organometallic reagents	- Ziegler Natta catalyst - Organic synthesis via organometallic reagents		Project on Synthesis and Characterisation of metal(II) complexes with NN Donor ligand derived from 2 [3-cyano-4-(2-methylpropoxy) phenyl]-4-methyl-1,3-thiazole-5-carbohydrazide	
CH S 556, Electrochemistry and reaction Dynamics, Unit I & II	Corrosion study, Electroanalytic methods and	Corrosion study, Electroanalytic methods and	--	Ms. Swathi Nayak has published a paper entitled "New		



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	electrochemical energy storage systems	electrochemical energy storage systems		voltammetric sensing technique for determination of paracetamol by l-phenylalanine based carbon paste electrode” in Monatshefte für Chemie - Chemical Monthly, Volume: 155, pages: 155-163, 2024 https://doi.org/10.1007/s00706-024-03172-w. Lavanya P Shetty has published a paper entitled “Electrochemical sensing of lactochrome in pharmaceutical sample using L-asparagine layered carbon based		
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				sensor” in Journal of Food Measurement and Characterization, a Scopus indexed journal, Volume: 18, pages: 5004-5013, 2024 https://doi.org/10.1007/s11694-024-02551-5 .		
CH P 557, Inorganic Chemistry Practical-IV	--	--	• Synthesis of coordination complexes			Project on Synthesis and Characterisation of metal(II) complexes with NN Donor ligand derived from 2 [3-cyano-4-(2-methyl propoxy) phenyl]-4-methyl- 1,3- thiazole-5-carbohydrazide
CH P 558, Physical Chemistry Practical-IV	--	--	• Chemical kinetics and radiochemistry			Project on Kinetics and Equilibrium Study of Methylene Blue Dye by NaOH Activated Carbon
CH P 559, Project Work & Dissertation	• Literature review, research work and reporting	• Literature review, research work and reporting	• Literature review, research work and reporting	Internship	Internship	Internship
OC H 501, Reaction Mechanisms, Unit I	•	• Organic synthetic named reactions	• Organic synthetic named reactions		Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an	Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an



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					Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.	API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.
OC H 502, Organic Synthetic Methods and Reagent, Unit I & II	•	• Oxidizing reagents and reducing reagents	• Oxidizing reagents and reducing reagents		Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.	Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.



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					industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.	
OC H 552, Advanced Heterocyclic Chemistry, Unit I & II	•	• Synthesis of Heterocycles	• Synthesis of Heterocycles		Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.	Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.
OC H 551, Organic Synthetic Design and Green Techniques	•	• Planning of organic synthesis and green aspects of synthesis	• Planning of organic synthesis and green aspects of synthesis		Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.	Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.



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					Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.	API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.
OC P 508, Organic Chemistry Practicals – III	•	• Quantitative determination of organic compound	• Quantitative determination of organic compounds		Project work on Analytical study of 5-bromo (1H-4,5-dihydroimidazole) quinoxaline 6 amine intermediate	
OC P 509, Organic Chemistry Practicals – IV	•	• Multistep synthesis of organic compounds and interpretation of	• Multistep synthesis of organic compounds and interpretation of		Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an	Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an



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		spectra	spectra		Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.	API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.
OC S 555, Chemistry of Natural Products, Unit I	•	• Isolation, total synthesis and applications of natural products	• Isolation, total synthesis and applications of natural products		Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.	Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023. Two days National Conference on Advanced Materials for Chemical and Biological Applications (NCAMCBA-2024) https://docs.google.com/document/d/1Wequ7d4PYEgtB3NhaWgle6BhfTD30wXK/edit?usp=drive



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					industry, Chennai, Tamil Nadu from 13- 12-2023 to 17-12- 2023. Two days National Conferen ce on Advance d Materials for Chemical and Biologic al Applicati ons (NCAM CBA- 2024) https://do cs.google .com/doc ument/d/ 1Wequ7 d4PYEgt B3NhaW gle6BhfT D30wX K/edit?us p=drive_ link&oui d=10359 9910594 3592671 19&rtpof =true&sd =true	ve_link&oid=1035999 10594359267119&rtpof =true&sd=true
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OC S 556, Industrial Organic Chemistry		Polymers, Dyes, pesticides, insecticides and herbicides – preparation & uses	Polymers, Dyes, pesticides, insecticides and herbicides – preparation & uses		- Project work on Bioadhesive and biocompatibility of polydopamine derived dental materials - Two days National Conference on Advanced Materials for Chemical and Biological Applications (NCAMCBA-2024)
OC P 557, Organic Chemistry Practicals – V		Multistep synthesis of heterocyclic compounds and	Multistep synthesis of heterocyclic compounds and interpretation		Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an



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		interpretati on of spectra	on of spectra		Chemistr y, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences- an API productio n industry, Chennai, Tamil Nadu from 13- 12-2023 to 17-12- 2023. Two days National Conferen ce on Advance d Materials for Chemical and Biologic al Applicati ons (NCAM CBA- 2024) https://do cs.google .com/doc	API production industry, Chennai, Tamil Nadu from 13- 12-2023 to 17-12-2023. Two days National Conference on Advanced Materials for Chemical and Biological Applications (NCAMCBA-2024) https://docs.google.com /document/d/1Wequ7d4 PYEgtB3NhaWgle6Bhf TD30wXK/edit?usp=dri ve_link&ouid=1035999 10594359267119&rtpof =true&sd=true
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					ument/d/1Wequ7d4PYEgtB3NhaWgle6BhfTD30wXK/edit?usp=drive_link&ouid=103599910594359267119&rtpof=true&sd=true	
OC P 558, Organic Chemistry Practicals – VI	•	• Separation of Ternary mixtures of organic compound	• Separation of Ternary mixtures of organic compounds		Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.	Industry – Institutional visit to the Department of Chemistry, IIT Madras - a reputed National Institute in India and Solara Active Pharma Sciences-an API production industry, Chennai, Tamil Nadu from 13-12-2023 to 17-12-2023.



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OC P 510, Project Work & Dissertation	• Literature review, research work and reporting	• Literature review, research work and reporting	• Literature review, research work and reporting	Internship	Internship	Internship
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Furnish the following Documents:

1. SEND **Highlighted syllabus copy with the above colours to the above issues**
2. Details of Activities /programmes (work shops, seminars, symposia etc) conducted in the department w.r.t the above issues (with Geo tagged photos)
3. MOU's of the depts. (if any) regarding the above issues
4. Details of the activities conducted with MOU depts.
5. Prepare list of the topics highlighting the above issues
6. Correspondence letters with MOU institution in view of conducting the programs
7. Provide Invitation/Brouchers of the activity done (if any)

II: Academic Flexibility

Metric No. 1.2.1:

New courses introduced across all the programmes: Nil

Sl.No	Semester	Name of the Newly introduced course with code	Year in which paper introduced



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Furnish the following Documents:

1. BOS copy clearly specifying the syllabus approval of new courses

Metric No. 1.2.2:

Number of Programmes offered through Choice Based Credit System/(NEP)/Elective Course System: Nil

Name of the Programme	Name of the Elective Paper introduced in the year (23-24) with the code	Year in which paper introduced

3. Curriculum Enrichment:

Metric No. 1.3.1:

Name of the Department:

Institution integrates cross-cutting relevant Professional Ethics, Gender, Human values, Environment & sustainable development Goals in the curriculum

Name of the courses(papers)with codes	Topic which Highlights the above issues(write in bullet form)				Name of the activities(with Photos if any done)
	Professional ethics	Gender equity	human values	Environment sustainability	
CH/OC S 406, Environmental Chemistry, Unit I & III				Air, Soil pollution control, air quality analysis, Safety in the transportation and storage of chemical, Radioactive waste control,	Wall magazine on Chemistry change and the environment



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				Sewage and industrial effluent treatment	
CH/OC S 455, Chemistry of Biomolecules, Unit II				Cellulose derivatives	Project work on Role of Fe-gC ₃ N ₄ in water purification by Cross Flow Filtration Method
CH E 458, Chemistry in the Community, Unit III				Pesticides, Insecticides, Fungicides and Herbicides	World Environmental Day celebration
CH H 503, Solid State Chemistry, Unit II				Insulating Materials Biodegradable polymers	Special talk on Nano and Soft Matter Sciences by an eminent resource person Dr. Ramya Prabhu B, Researcher, Prayoga Institute of Education and Research, Bengaluru Project work on Bioadhesive and biocompatibility of polydopamine derived dental materials
CH H 551, Bioinorganic Chemistry, Unit II				Nitrogenase enzymes	
CH S 554, Nuclear, Surface & Nano				Nuclear power reactors,	Nano Jaatha



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Chemistry, Unit I				Radioactive materials and radiations	
OC H 551, Organic Synthetic Design and Green Techniques, Unit II				Greener solvents, greener catalyst	Project work on Microwave synthesis and characterization of electroactive nickel oxide nanoparticles
OC H 553, Photochemistry and Asymmetric Synthesis				Photochemical reactions	Project work on Synthesis of nanostructured calcium titanate via microwave irradiation for photocatalytic studies
OC S 556, Industrial Organic Chemistry, Unit I				Regenerated cellulose, Agrochemicals	Project work on Synthesis of few agrochemical intermediates

Metric No. 1.1.3:

Furnish the details of the courses which highlight the Employability/ Entrepreneurship/ Skill development skills:

Name of the Course & Code	Topics in the syllabus which Highlight the above issues (write in Bullet forms)			List out activities with direct bearing on Employability/Entrepreneurship/ Skill development(attach link of the activities)		
BTH501	Employability	Entrepreneurship	Skill components	Employability	Entrepreneurship	Skill components
	Plant Biotechnology Micropropagation/Totip		Plant Biotechnology RNA editing	Guest lecture organized by Genix association, Department of PG studies & research		Workshop on Molecular Docking dt on 28-



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	otency			in Biotechnology, on -Career opportunities in Life science, by Dr. Sudeep D Ghate, Scientist G -II Center for Bioinformatics NITTE University, dt 11-05-24		3-24, Organize d by Genix associatio n, Departme nt of PG studies & research in Biotechn ology. Resource person Dr.Ramit h ramu, JSS Academy of Higher education & Research, Mysuru https://do cs.google. com/docu ment/d/1 XWmVC K47Cne5 K7iB8N DufKnU9 r73y2AM /edit?usp =drive_li nk&ouid =103599 91059435 9267119 &rtopof=tr ue&sd=tr ue
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Name of the Department: PG Studies and Research in English



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Metric No. 1.1.3:

Furnish the details of the courses which highlight the Employability/ Entrepreneurship/ Skill development skills:

Name of the Course & Code	Topics in the syllabus which Highlight the above issues (write in Bullet forms)			List out <u>activities</u> with direct bearing on Employability/Entrepreneurship/ Skill development(attach link of the activities)		
ENOE 551 Functional English Unit III	Employability	Entrepreneurship	Skill components	Employability	Entrepreneurship	Skill components
	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.					
ENOE 551 Function			A) Background to			



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al English Unit I Unit II Unit IV			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;			
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			Formality in Verbs; Modal Verbs; Nouns and Adjectives; Countable and uncountable nouns; Passives; Prefixes and suffixes; Prepositions; Prepositions after Verbs; Punctuation; Relative Pronouns; Singular / Plural; Tenses; Idioms and Phrases. Orientation to group discussion; Preparing for the Job Interview - The First Interview, Stress and behavioral Interviews; Designing and reporting surveys; PPT; Speech			
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ENST50 2 Introduct ion to English Languag e and Linguisti cs Unit II Unit III			Language and Human Communication Linguistic Analysis of English: Phonological : Organs of Speech; phone, phoneme and allophones; English Vowels and Consonants, diphthongs and Triphthongs; IPA and Phonetic Transcription. Syllable, accent and rhythm. Morphological: Morph, Morphemes: free and bound, derivational and inflectional, prefixes and suffixes, allomorphs.			
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			Syntactic: Sentence and the parts: words, phrases and clauses; sentence combining; noun phrase and verb phrase. Semantic: Polysemy, synonymy, Antonymy, hyponymy and idioms. Acceptable, Interpretable, ambiguous sentences Discourse : Cohesion / Coherence			
ENHT553 Literary Criticism : Plato to F R Leavis Unit III			Cleanth Brooks: Chapter 'The Language of Irony and Paradox' from <i>The Well Wrought Urn</i> . David Lodge, p 292 – 304.			



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			T S Eliot: ‘Tradition and Individual Talent’			
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Department of PG Studies & Research in Journalism & Mass Communication

Metric No. 1.1.3:

Furnish the details of the courses which highlight the Employability/ Entrepreneurship/ Skill development skills:

Name of the Course & Code	Topics in the syllabus which Highlight the above issues (write in Bullet forms)			List out <u>activities</u> with direct bearing on Employability/Entrepreneurship/ Skill development(attach link of the activities)		
	Employability	Entrepreneurship	Skill components	Employability	Entrepreneurship	Skill components
JMHT 502 REPORTING FOR MEDIA	--	--	Reporting Techniques			
JMHT 503 EDITING AND DESIGN	--	--	Design and Make Up of Newspaper			
JMST 501 ADVERTISING	--	--	Advertising Copy Writing			
JMHT 551 COMMUNICATION	--	--	Data Analysis Techniques			



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RESEARCH METHODS						
JMST 551 PHOTO JOURNALISM	Photo Journalism	Branches of Photography	Techniques of Photography			
JMST 552 NON-FICTION WRITING	--	--	Basic Writings			
JMOE 551 COMMUNICATION SKILLS	--	--	COMMUNICATION SKILLS			
JMOE 552 BASICS OF JOURNALISM	--	--	Modes of Journalism			
JMOE 553 CITIZEN JOURNALISM	--	--	Tools and Techniques			
JMHT 601 CORPORATE COMMUNICATION	Process of PR	--	PR Tools			
JMHT 602 FILM DIRECTION AND PRODUCTION	Screen Play Writing	--	Elements of Films			
JMST 601 MEDIA MARKETING	Social Marketing Plan	--	Research Approach, Mass Media and Marketing Strategies			



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JMST 602 BUSINESS JOURNALIS M	--	--	Types of Business Reporting			
JMST 603 MEDIA AND ENVIRONME NT	--	--	Mass Media Content on Environment			
JMOE 601 WRITING FOR MEDIA	--	--	WRITING FOR MEDIA			
JMOE 602 RADIO JOCKEY	--	--	RJ styling			
JMOE 603 NEW MEDIA – AN INTRODUCT ION	Opportu nities in Online media. Social Media as a Career Blogs and Micro Blogging	--	--			
JMHT 651 NEW MEDIA TECHNOLO GY	Content Developi ng for Internet Medium	--	--			
JMST 651 MEDIA MANAGEME NT	Media Professio nalism	--	--			



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JMST 652 RADIO BROADCASTING		--	Broadcasting Techniques Principles of Writing for Radio Programmes			
JMST 653 TELEVISION PRODUCTION	Production Techniques	--	Content for Television			
JMST 655 DEVELOPMENT COMMUNICATION	--	--	Development Support Communication			

Metric No. 1.1.3:

Furnish the details of the courses which highlight the Employability/ Entrepreneurship/ Skill development skills:

Name of the Course & Code	Topics in the syllabus which Highlight the above issues (write in Bullet forms)			List out <u>activities</u> with direct bearing on Employability/Entrepreneurship/ Skill development(attach link of the activities)		
	Employability	Entrepreneurship	Skill components	Employability	Entrepreneurship	Skill components
Accounting Theory & Practices - CMHT 501			Final Accounts of Companies	https://docs.google.com/document/d/1MrxKtXmrUz2-LeNsCtflEvVLHHmxSVij/edit?usp=sharing&ouid=10	https://docs.google.com/document/d/1EJ7Mg3ZKogAJuzEnDdXNaefNuurphIwO/edit?usp=sharing&ouid=102171486207440259103	https://docs.google.com/document/d/1CddygdunYoloWOrQjaxe74Ym5J88sI/edit?usp=sharing&ouid=102171486207



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				2171486207440259103&rtpof=true&sd=true	&rtpof=true&sd=true	440259103&rtpof=true&sd=true
Direct Tax Law & Practice-CMHT 552			Filing of Returns	https://docs.google.com/document/d/1w11kl-chKXd8wD0B1gQAmqfZgHyBBSU4/edit?usp=sharing&ouid=102171486207440259103&rtpof=true&sd=true		
Advanced Financial Management-CMHT 553			Financing Decisions	https://docs.google.com/document/d/14QHlbouhw4B2SRaIV9jtg9060cbTU-tf/edit?usp=sharing&ouid=102171486207440259103&rtpof=true&sd=true		
Retail Management-CMST 651			Retailing Strategy			
Marketing Management-CMST 551			Managing Communication and Logistics			
Organizational Behavior			Conflict Management			



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ur- CMST 552						
Accounti ng for financial Decision s- CMST60 1			Investment Accounts			
Security Analysis & Portfolio Manage ment CMST 602			Portfolio Analysis and Selection			
A Strategic Human Resource Manage ment SMST 603			Employee Training and Executive Development			
Business Research Analytic s- CMHT 502	Data Analytic s					
Strategic Manage ment- CMHT 503	Formulat ion of SBU strategy.					
Accounti ng Standard & Financial	Financial reporting					



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Reportin g- CMHT 551						
Internati onal Business Environ ment CMHT 603	Trade Procedur e and Logistics Manage ment					
E- commerc e & Cyber Laws- CMT 502	Electroni c market and E- Payment s					
Entrepre neurship Develop ment & Start up CMOE 601	Project Identific ation and Selection					
6A Manage ment of Industria l Relations -I- CMST 604	Creation of an Enterpris e					

M.Com – Insurance and Bank Management

Name of the Course & Code	Topics in the syllabus which Highlight the above issues (write in Bullet forms)			List out activities with direct bearing on Employability/Entrepreneurship/ Skill development(attach link of the activities)		
Accounting	Employabilit y	Entreprene urship	Skill component	Employabil ity	Entrepreneurs hip	Skill components



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Theory & Practices IBHT 501			s			
			Final Accounts of Companies		https://docs.google.com/document/d/1MrxKtXmrUz2-LeNsCtfIEvVLHHmxSVij/edit?usp=sharing&ouid=102171486207440259103&rtpof=true&sd=true	https://docs.google.com/document/d/1sdJPxLyHPBVWAEbCWfE-26WozMbfUoOu/edit?usp=sharing&ouid=102171486207440259103&rtpof=true&sd=true
Direct Tax Law & Practice IBHT 552			Filing of Returns	https://docs.google.com/document/d/1w11kl-chKXd8wD0BlgQAmqfZgHyBBSU4/edit?usp=sharing&ouid=102171486207440259103&rtpof=true&sd=true		
Strategic Financial Management IBHT 553			Financing Decisions	https://docs.google.com/document/d/14QHlbouhw4B2SRaIV9jtg9060cbTU-tf/edit?usp=sharing&ouid=102171486207440259103&rtpof=true&sd=true		
Banking Practices. IBOE	Career in Bank			https://docs.google.com/document/d/		



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601				1MrxKtXmrUz2-LeNsCtflEvVLHHmxSVij/edit?usp=sharing&oid=102171486207440259103&rtpof=true&sd=true		
Indian Banking System. IBST 501	Financial Inclusion					
Business Research Analytics IBHT 502	Data Analytics					
Accounting Standard & Financial Reporting IBHT 551	Financial reporting					
Accounting for Financial Institutions- IBHT 601	Accounting for Insurance Companies					



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Name of the Department: PG PHYSICS

Curriculum Development:

Metric No. 1.1.3:

Furnish the details of the courses which highlight the Employability/ Entrepreneurship/ Skill development skills:

Name of the Course & Code	Topics in the syllabus which Highlight the above issues (write in Bullet forms)	List out <u>activities</u> with direct bearing on Employability/Entrepreneurship/ Skill development(attach link of the activities)				
	Employability	Entrepreneurship	Skill components	Employability	Entrepreneurship	Skill components
PHHT 601 Atomic & Molecular Physics, Units II, III & IV	X ray spectroscopy, NMR, Raman & ESR spectroscopy					
PHHT 651 Laser Physics, Vacuum techniques & Cryogenics, Units III & IV	Vacuum technology, cryogenics, pressure & temperature gauges					
PHST 603 Electronics I, Unit III & IV	Microcontrollers, architecture, peripherals					
PHST 653 Electronics IV, Unit I	PCB design, fabrication, semiconductor devices			Hands on training & practical sessions		



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				https://docs.google.com/document/d/1cUE54hLHOU-CObuLIAIY3sBRXXkLfGf/edit?usp=drive_link&ouid=103599910594359267119&rt=pof=true&sd=true		
PHHT 551 Mathematical Physics II & C Programing, Units III & IV			Numerical techniques, C programing			Practical lab sessions
PHST 651 Condensed Matter Physics IV	Nanomateria ls & graphene					

Metric No.1.1.3:

Furnish the details of the courses which highlight the Employability/Entrepreneurship/ Skill development skills.

Name of the Course & Code	Topics in the syllabus which highlight the above issues			List out the activities with direct bearing on Employability/ Entrepreneurship/Skill development		
	Employability	Entrepreneurship	Skill components	Employability	Entrepreneurship	Skill components
Social Work			Module-			Do's and Don't



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Profession SWHT 501			2- Social Work Practicum , Training, Supervision, Reporting. Problems and challenges of Social Work Practice Module-4 Directive Principles of State Policy.			and Pathway to career abroad https://docs.google.com/document/d/1kjt2-T0zox9IL7slWE6nkyu3_E-VZVm/edit?usp=drive_link&ouid=103599910594359267119&rtpof=true&sd=true
Social Work Practice with Individuals SWHT 502			Module-3- Case Work Tools and Techniques Module-4 Application of Case Work Method in different settings -			Fire safety, health safety and disaster management. https://docs.google.com/document/d/1kjt2-T0zox9IL7slWE6nkyu3_



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Social work Practice with Groups SWHT 503	Module 2- Principles and Methods of Social Work Module 2- Code of ethics of Professional Social Work, Limitations/ Challenges of Professional Social Work. Module-4- Programme Planning: Use of group work in various settings: Schools, Hospitals, Industries and Communities	Module 4- Designing a training programme,	Module 2- Process of Group work: Intake, study, analysis and assessment negotiating contracts , treatment , evaluation, and termination			Street play training. https://docs.google.com/document/d/1kjti2-T0zox9IL7slWE6nkyu3_E-VZVm/edit?usp=drive_link&ouid=103599910594359267119&rtpof=true&sd=true



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			disengaging from relationships, stabilization of change effort. Use of relationships: Verbal and non/verbal communication skills required for programme planning. skills required for programme planning. Module 4- Importance of recording in group work.			
Dynamics of Developmental	Module -1 Scope of Psychology, Module 3- Personality-		Module-1 Life examples and experience			



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Psychology SWST 501	Projective and Non-Projective Techniques of Personality Assessment. Module 4-special focus on role of Social Workers. Role of Social Workers during the stages.		e sharing Module-2 Techniques of stress management Stress Coping Mechanisms- Task oriented and Defence oriented stress coping mechanisms. Role Play Module 4- Case Study Discussion .			
Community Organization & Practice SWHT 551	Module 1 - Community Work, Community Development	Module 2-leadership in different types of community. Module 3-leadership,	Module 1- Models of community organization. Locality development			



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nt and community Welfare: Rural, Tribal and Urban communitie s. Gender sensitive and ecological sensitive community work. Module 2- Panchayath Raj Institutions Module 2- Enabler, facilitator, guide, researcher, moderator, philosopher, activist. Module 4- Corporate Social Responsibil	resource mobilization , community action Module 3- Participator y Rural Appraisal or Participator y Learning for Action Module 4- civil society organization s. Non- Government Organizatio ns, Athmanirbh ara Bharath	ent, social planning, social action. Democrati c model and Gandhian model. Modul e 3- Organi zing, Comm unicati on, trainin g, consult ation, public relation s, resourc e mobiliz ations, liaison, conflict resoluti on.			
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	ity, Social Auditing, Module 4- NIITI Ayog. PPP model. Corporate Social Responsibil ity, Social Auditing, NIITI Ayog. PPP model.					
Social Welfare Administ ration & Social Action SWHT 552	Module-1-: Planning, Organizing, Staffing, Directing, Coordinating, Reporting, Budgeting (POSDCORB),	Module 2- Legislations related to Establishment of Service Organizations (NGOs)	Module 2- Fund Raising and Resource Mobiliza tions for NGOs, Public Relation: Concept, Need and Importan ce, Network Building , Use of Media for Publicity , Program Develop ment and Manage ment, Training			



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			and Competen ce Building, Module 4- Principle s Process and Models of Social Action; Approaches and Strategies of Social Action			
Social Work Research & Statistics SWHT 553	Module -1 Agencies sponsoring and conducting Social Work research, ethics in research.		Module 2- Observati on, Interview, and questionn aire Module 4- Definition, functions and importance. Measures of Central Tendency; Measures of Dispersion. Chi-square, Correlation Coefficient, 't' distribution; Analysis of			



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			Variance and 'F' distribution, SPSS package.			
Management & Communication Skills for Social Workers SWST 551			All the four Modules			
Disaster Management	Module 2- Pre disaster prevention, education, Actual Disaster, short term. Long term plan,		Module 4- Role of the Social Worker in Disaster Management			
Social Policy & Planning SWOE 551			Module 2- The process of Social Policy Formulation, the Contribution of Research			



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			, the role of Interest Groups.			
Social Development, Change & Transformation SWOE 552	Module 3-Role of Non Government Organization in Development.		Module 3-Awareness Building, Development of education, accountability, Application of social work methods in development and transformation			Science and social. https://docs.google.com/document/d/1kjt2-T0zox9IL7slWE6nkyu3_E-VZVm/edit?usp=drive_link&ouid=103599910594359267119&rtfpof=true&sd=true
Ecology, Environment & Development SWOE 553	Module 1-drip irrigation, watershed management, wasteland reclamation, bio- farming, social forestry and afforestation	.	Module 2- Case study(Saalumara and Timmakka)			Eco system restoration, https://docs.google.com/document/d/1kjt2-T0zox9IL7slWE6nkyu3_E-VZVm/edit?usp=drive_link&ouid=103599910594359267119&rtfpof=true&sd=true



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						L7slWE6nkyu3_E-VZVm/edit?usp=drive_link&ouid=103599910594359267119&rtpof=true&sd=true
Project Planning & Development SWHT 601	Module 2- Project formulation and Analysis Process of Project Formulation: Participatory Study /Assessment of Situation.	Module 4- Production oriented Micro Enterprises, Projects on Education/ Training/ Entrepreneurship Development	Module 3- Project Planning tools and techniques Module 4- Designing Project Proposal: Writing Project Proposal:			
Organisational Behavior & Development	Module 3- Leadership Roles Module 4- OD interventions		Module - 1 Case Studies Module 2- Transactional			



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SWST 601	– Individual and Interpersonal interventions, Team/group interventions, Comprehensive interventions		Analysis (TA) Techniques of motivation Group Discussions and Case Study presentations Module 3- Skills, and Styles/ Types of leadership- Seminar Presentations Module -4 Conflict-resolution strategies, Managing organizational change, Ethical practices of			
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			Indian Managers, Experience sharing by Indian Managers			
Public Health Administration SWST 602	Module -1- Community health, Preventive and Social Medicine Public Health Module 2- Communicable, Non-communicable, Nutrition deficiency diseases	Module 4- National and International agencies of health.	Module 4- Health education and Behaviour change communication strategies, Counseling and referral, Community needs assessment, Community mobilization and organization , Rehabilitation, Health system restructuring and reform, Capacity building and training, Resource mobilization and			



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			application,			
Sustainable Development and Social Entrepreneurship SWST 607		Module 2- Entrepreneurship Module 4- women entrepreneurship, rural entrepreneurship, emerging trends in entrepreneurship development, entrepreneurship potential and potential entrepreneur, difference between a business and social	Module 2- Roles and responsibilities of civil society organization and its participation in Sustainable Development			Stock market investment for beginner. https://docs.google.com/document/d/1kjt2-T0zox9IL7slWE6nkyu3_E-VZVm/edit?usp=drive_link&ouid=103599910594359267119



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		entrepreneurship, perspectives on entrepreneurship				&rtopf=t rue&sd=t rue
Medical Social Work SWST 603	Module 4- International health Agencies- World Health Organization (WHO), UNICEF, UNDP, FAO, ILO, World Bank, Non - governmental and other Agencies – Ford Foundation, CARE, International Red Cross, Indian Red Cross.		Module 3- Skills required to a Medical Social Worker, Role of Social Worker with patients and their families			
Strategic Human Resource Management SWST 604	Module 2- Recruitment and Selection Module 3- Compensation Management:		Module -1 Functions of Human Resource Management,			



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	Concept and objectives of compensat ion/ Payment systems.		Importa nce and Evoluti on of the concept of HRM. Principl es of HRM, Role and skills of HR Manage r. Module 2- Process of Human Resour ce Plannin g, HR Forecas ting Techni ques,			
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			Selection Test, Interviews, Evaluation, Placement, Induction. Module 3- Latest Methods and areas of training Module 4- Global HR practices; E-HRM; HRIS (Human Resource Information System); Measuring intellectual capital;			
Community Development and social	Module 1- Role of NGOs	Module 4- FGD's on Globalization, Privatization	Module-1 People's			



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Change SWST 608	development. Module 4- Models of development: SKDRDP Model, SIRI Model, RUDSETI Model, Co- operative Model, Agricultural Model	and Liberalization	participat ion in develop ment. Module -3 Research and Training in Tribal Developme nt; Tribal Developme nt Policies			
Psychiatric Social Work SWST 605	Signs, Symptoms, Aetiology, Diagnosis, Prognosis and Management of the Psychiatric Disorder Module 4- Psychiatric Rehabilitation		Module 2- Role of Psychiatric Social Worker in General Hospitals, Day Hospitals, Half way homes, Sheltered workshops, Occupation al therapy units, Child Guidance Clinics, Epilepsy Clinics, Adolescent Clinics, Geriatric Clinics.			



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Labour Legislations SWST 606	Module 1- Constitution and labour laws, Principles of Labour laws, Labour laws in India. The occupational safety, health and working conditions code, 2020 Module 2 Module-3- The payment of gratuity Act, 1972 Employees compensation Act, 1923					
Management of Non- Government Organizations SWOE 601	Module 1- Non- Governmental Organization Module 2- NGO Administration Module 2- The Foreign Contribution (Regulation) Act 1976- its management					



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	and Legal/Rational Structure Role and Responsibilities of NGOs in Sustainable Development Module 3- Role of NGO's during Disaster Management: Relief and Rehabilitation services during Disaster.					
Gender Equity SWOE 602	Module 3- National Commission for Women - – Composition, powers and functions; Karnataka State Commission for Women – Composition,	Module 1- SWSS509C- Gender Equity	Sustainable Development Goals (SDG's) Module 3- Constitutional Rights of Women			



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	powers and functions		in India (Relevant articles of Fundamental Rights and Directive Principles) Protective Legislation for Women in India – The Dowry Prohibition Act, 1961; Sexual Harassment of Women at Workplace (Preventi			
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			on, Prohibiti on and Redressa l) Act, 2013; Protectio n of Women from Domesti c Violence Preventi on Act, 2005			
Urban Community Developme nt SWST657		Role of Non- Governmental Organizations in Urban Development, Public Private Partnership for Urban Development	Application of Social Work Method and Role of Community Worker in Urban Developme nt.			
Family & Child Welfare SWST 651	Module 1- Family welfare programmes in India,		Module 2- Working with Elderly: Module 4-			



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	Development services and Socio-economic programmes for family welfare. Module 2- Family planning Programmes Module 3- Programmes and services for children programme services for handicapped children, institutional services, adoption, foster care, sponsorship, juvenile court, child welfare board, child guidance centers and school social work.		policies regarding intake, treatment, discharge and rehabilitation			
Human Resource Developme	Module 2- Performance Management, Historical	Module 4- Business Process	Module 1-HRD: Meaning,			Installati on ceremon y of



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nt SWST 652	development of Performance management. Development of Key Result Areas (KRA), Key Performance Indicators (KPI) goal setting and Monitoring, Performanc e appraisal, its importance as a tool in HRD. Module 3- Role of trade unions; Industrial relations and HRD; Module 3- Talent Managemen t: Concept and approaches Module -4 Right Sizing	Outsourcing	Definitio n, Objectiv e Process and designin g HRD systems. HRD Departm ent and its Function s. Effective Team building, Module 2-; Role of HR professio nals in performa nce manage ment; Use of technolo gy and e-PMS			NIPM student chapter, Alumni interactio n. https://docs.google.com/document/d/1kjt2-T0zox9IL7slWE6nkyu3_E-VZVm/edit?usp=drive_link&ouid=103599910594359267119&rtpof=true&sd=true
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	of Workforce, Flexi time, Employee Engagement		Recognit ion and rewards systems. Organiza tional effective ness Module 3- leadershi p develop ment Intellectual capital and HRD; HRD			
Citizen Participatio n, Social Policy and Social action. SWST658			Module 2- Importan ce of knowled ge of Indian Constitut ion for Social Work Professio n.			



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			Module 4- The role of Social worker in promoting social legislation.			
Therapeutic Counseling SWST 653	Module 1- Psychometry. Module 4- Life style modification and wellness counseling. - Model- Hospital for nature cure and yoga therapy, Shanthivana Dharmastha la. Addiction counseling -Model- Jana Jagruthi Vedike , SDM trust – Laila.	Module 2- Tele counselin g, Online Counselin g. Module 3- Vocational / career guidance & counseling. Counseling couples – Pre marital & marital counseling, Rehabilitation Counseling. Crisis Intervention & Trauma Counseling. Suicide prevention and counseling. School counseling. Industrial Counseling	Module 1-Skills of counseli ng, qualities of a counselo r and Ethical and Legal Guidelin es Module 2-Client centered therapy, Gestalt Therapy, Psycho – Analytic al therapy, Behavior therapy, Multimo dal Approac			



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	Counseling women in distress and violence – Model- Gelathi Counseling centre SIRI Laila. SANTHVA NA. Women's helpline Belthangad y. Prajna Counseling centre Mangalore. Behaviour therapy- Model- Anirveda Mangalore. Palliative Care- Model- Ave Maria, Vamanjooru		h, Rational Emotive Behavior therapy, Neuro – Linguisti c Program ming Module 4- Case studies, Life skills helping model, Role Play, Practical Counseling sessions			
Employee Welfare & Industrial Relations	Module 2- Industrial Safety and		Module - 1 Role and Function s of			



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SWST654	Industrial Health & Hygiene Module 3- Statutory Employee Welfare Facilities Module 3- Non-statutory Employee Welfare Facilities Module 4- Workers Participation in Management		Labour Welfare Officer. Module 2- Role and Duties of safety officer. Module 3- POSH Committee- the role and responsibilities Module 4- Industrial Relations			
Rehabilitation & After Care Services SWST 655	Module 2- Hospital based, day-care, night-care, quarter-way home, half-way-home, group home, hostels, long-stay homes, vocational guidance centre,	Initiatives from the non-governmental sectors. International trends and national initiatives in the rehabilitation	Module 1- physical handicap - vision, hearing, Orthopedic, speech and language . Neurological, Psychiatric problems , Disasters , Alcohol			



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	sheltered workshop, occupational therapy centre, and community based rehabilitation centre, home care, inclusive education and other. Module 3- Legal provisions for differently abled people Module - 4Ministry of Empowerment and social Justice (Dept of welfare of disabled).	on scenario. Module 4- Orientation Visits to Rehabilitation Settings.Study of Various Rehabilitation Models	and drug usage, Terminal illnesses. Module 4- Practice of Social work methods in the process of rehabilitation: Case Work, group work, community - Organization, Research , administration and social action Role of Social Worker. District Rehabilitation centre. National Rehabilitation centers. Module 4- Practice of Social work			
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			methods in the process of rehabilitation: Case Work, group work, community - Organization, Research , administration and social action Module 4-Role of Social Worker. District Rehabilitation centre. National Rehabilitation Centers.			
Management Concepts and Corporate Communication SWST 656	Module 1- Concept of Management, Management skills, Roles,		Module 1- Translating Vision and Mission to Action. People's Participation and Empowerment, NGOs and			



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	Qualities of a Manager Module 2- Planning: Concept of planning, Significance of planning, Decision Making: Concept of decision making Controlling: Concept, Importance of controlling, Module 3- Total Quality Management, Quality Control, 5s Model- Seiri, Seiton, Seiso, Seiketsu, Shitsuke,		Accountability. Module-2 - Role and Importance of Planning, Organizing, Staffing, Directing, Coordinating, Recording and Budgeting in managing NGO's (POSDCORB Functions) Fundraising techniques for NGOs Module 3- Plans and Programmes for Environmental Protection			
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	Kaizen Module 4- Communication: Concept, Nature, Importance, Types, Models, and Process of Communication Commercial Letters, Enquiries, Quotations and Tender Notices, Placing Orders, Export Import Correspond ence, Correspond ence with Public Authorities, Preparing Minutes of Meeting, Memo, Office Order,					
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Metric No.1.1.3:

Furnish the details of the courses which highlight the Employability/Entrepreneurship/ Skill development skills.

Name of the Course & Code	Topics in the syllabus which highlight the above issues			List out the activities with direct bearing on Employability/ Entrepreneurship/Skill development		
	Employability	Entrepreneurship	Skill components	Employability	Entrepreneurship	Skill components
Real Analysis, STHT 501			Unit I, II, III & IV: Concepts of Real Analysis			
Probability and Distributions – I, STHT 502			Unit III: Probability Distributions and Transformation Techniques			
Linear Algebra, STST 501			Unit I, II, III & IV: Concepts of Linear Algebra			
Introductory Statistics and Data Analysis, STOE 551			Unit I & III: Descriptive Statistics and Sampling			



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			Techniques			
Questionnaire Design and Sample Selection, STOE 552	Unit I & III: Preparation of questionnaire and sampling techniques		Unit II & III: Pilot Survey, Types of questionnaire, Sampling techniques, sample size determination			
Data Visualization, STOE 553	Unit II & III: Identification of Suitable Bivariate and Multivariate Graphical Representation Techniques		Unit I, II & III: Univariate, Bivariate and Multivariate Graphical Representation Techniques			
Probability and Distributions – II, STHT 551			Unit I, II, III & IV: Concepts of Probability & Distributions			
Design and Analysis of Experiments,			Unit I, II, III & IV: Concepts and Techniques of Design and			



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STHT 552			Analysis of Experiments			
Theory of Estimation, STHT 553			Unit I, II, III & IV: Estimation Techniques			
Data Management and Statistical Computing with Python, STST 551	Unit I, II & III: Python Programming Paradigms for Data Management and Statistical Computing					
Inferential Statistics and Data Analysis, STOE 601			Unit I, II & III: Concepts and Techniques of Inferential Statistics			
Categorical Data Analysis, STOE 602	Unit III: Identifying the appropriate models		Unit I, II & III: Techniques of Analyzing Categorical Data			
Demographic Methods and Analysis,	Unit III: Life tables, expecta		Unit II: Measures of Fertility and Mortality			



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STOE 603	tion of life tables					
Testing of Hypotheses, STHT 601			Unit I, II, III & IV: Concepts and Techniques of Hypothesis Testing			
Regression Analysis, STHT 602	Unit I, II, III & IV: Concep ts and Techni ques of Regress ion Analysi s					
Multivariate Analysis, STHT 603	Unit III & IV: Multiva riate Techni ques		Unit I, II, III & IV: Concepts and Techniques of Multivariate Analysis			
Stochastic Processes, STST 601			Unit I, II, III & IV: Concepts of Stochastic Processes			
Time Series Analysis, STHT 651	Unit I, II, III & IV: Concep ts and Techni ques of Time		Unit I: Concepts and Techniques of Time Series Analysis			



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	Series Analysi s					
Reliability and Survival Analysis, STHT 652	Unit I, II, III & IV: Concep ts and Techni ques of Reliabil ity and Surviva l Analysi s					
Statistical Modelling, STST 651	Unit I, II & III: Concep ts and Techni ques of Statistic al Modelli ng					
Big Data Analytics, STST 653	Unit I, II, III & IV: Concep ts and Techni ques of Big Data Analyti cs			Guest Lecture on “Big Data Analytics Tools & Technology” conducted on 23/03/2024 https://docs.google.com/doc ument/d/1PgEiHDIayl8I5G BEaC0D- vepVqhe1mhA/edit?usp=dri ve_link&ouid=1035999105 94359267119&rtpof=true&s d=true		



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Artificial Intelligence, STST 654			Unit I, II, III & IV: Concepts and Techniques of Artificial Intelligence			
Value Added Course on R and Excel for Data Science	Section 4: Data Handling in Excel & Data Analysis		Section 1, 2, 3 & 4: Concepts of R Programming and Excel for Data Analysis	Workshop on “Advanced Excel” conducted on 25/03 https://docs.google.com/document/d/1PgEiHDlayl8I5GBEaC0D-vepVqhe1mhA/edit?usp=drive_link&ouid=103599910594359267119&rtpof=true&sd=true		
Value Added Course on R for Advanced Statistical Methods and Machine Learning	Section 1 & 2: Machine Learning using R		Section 1 & 2: Machine Learning using R			

Metric No. 1.1.3:

Furnish the details of the courses which highlight the Employability/ Entrepreneurship/ Skill development skills:

Name of the Course & Code	Topics in the syllabus which Highlight the above issues (write in Bullet forms)			List out <u>activities</u> with direct bearing on Employability/Entrepreneurship/Skill development (attach link of the activities)		
Psychology	Employability	Entrepreneurship	Skill components	Employability	Entrepreneurship	Skill components
PYHT:501 Cognitive processes	Nil	Nil	- Problem solving approaches - Decision	Nil	Nil	International Level of Multidisciplinary Symposium On



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			-making Creativity			The Role and Future of Artificial Intelligence in Human Behaviour https://docs.google.com/document/d/1-JjuS-tYuoqwnoBNvlTBMMIcP6cadfGx/edit?usp=drive_link&ouid=116755220805397890261&rtopof=true&sd=true
PYHT 502: Quantitative Research Methods	Project proposal	Nil	Interdisciplinary Methods	Nil	Nil	Undertaking an empirical research study
PYHT503: STATISTICS IN PSYCHOLOGY	Use of computers in statistics - SPSS.	Nil	Concepts of SEM (Structural Equation Modeling).	Nil	Nil	Use of software for the analysis of statistical data.
PYHP 501: Cognitive Psychology Practical	Assessment of intelligence using WAIS. Assessment of Memory by administering Weschler's Memory Scale	Nil	Entire Paper	Nil	Nil	IQ Assessment



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PYSP 501: Assessment Of Personality Practical	Nil	Nil	• Entire Paper	Nil	Nil	Personality Assessment
PYHT 552: PSYCHO METRY	Entire Paper	Nil	• Entire Paper	Nil	Nil	Psychological tool development
PYOE601: Life Skills Education	Nil	Nil	Entire Paper	Nil	Nil	Class room activities
PYOE603: Psychological First Aid (PFA)	Nil	Nil	Case Scenario s- Natural Disaster, Violence And Displacement, Accidents.	Nil	Nil	Workshop https://docs.google.com/document/d/1-JjuS-tYuoqwnoBNvITBMMIcP6cadfGx/edit?usp=drive_link&ouid=116755220805397890261&rtopof=true&sd=true
PYOE553: Personality Development	Nil	Nil	Entire Paper	Nil	Nil	Nil
PYST602: Human resource management and development	Entire Paper	Entire Paper	Human Resource Training ,Neuro Linguistic Programming (NLP)	workshop	Field visit	Field visit https://drive.google.com/drive/folders/1fiIK2WwzQof5ePbz492YfQ05_nuXZ9pf?usp=drive_link
PYST 502: Community Psychology	Mental hygiene, preventive methods, Mental health planning	Nil	Crisis intervention, Consultation, Education and attitude	Workshop	Nil	Teach to reach https://drive.google.com/drive/folders/1fiIK2WwzQof5ePbz492YfQ05_nuXZ9pf?usp=drive



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	and policy developme nts. Integrating mental health programs with the primary communit y based cared systems and rehabilitati on		change. Role of non- professionals. Community Psychotherap y and Community Counselling Techniques			link
PYST652: Marketing And Consumer Behaviour	Entire Paper	Entire Paper	Market Analysis, Marketing Research	Field Visits	Guest lecture	Workshop https://drive.google.com/drive/folders/1fiIK2WwzQof5ePbz492YfQ05_nuXZ9pf?usp=drive_link
PYSP652: Case Studies and Field Visits	Entire Paper	Nil	Entire Paper	Nil	Nil	Case analysis
PYHT651: Behaviour Modification Unit IV	Nil	Nil	Parent Management Training By Kazdin	Nil	Nil	Workshop
PYHT 553: Counsellin g Skills	Entire Paper	Nil	Entire Paper	Nil	Nil	Teach to reach Programme. Hostel Counselling https://drive.google.com/drive/folders/1fiIK2WwzQof5ePbz492YfQ05_nuXZ9pf?usp=drive_link



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PYST 551: Qualitative Research MethodS	Nil	Nil	Use Of Qualitative Data Analysis Software	Nil	Nil	Research forum https://drive.google.com/drive/folders/1fiIK2WwzQof5ePbz492YfQ05_nuXZ9pf?usp=drive_link
PYOE 603: Neuro Linguistic Programming	Techniques and Application of NLP	Nil	Techniques and Application of NLP	Nil	Nil	Workshops https://drive.google.com/drive/folders/1fiIK2WwzQof5ePbz492YfQ05_nuXZ9pf?usp=drive_link
PYHT651: Internship	Entire Paper	Nil	Entire Paper	Nil	Nil	Internship presentation https://drive.google.com/drive/folders/1fiIK2WwzQof5ePbz492YfQ05_nuXZ9pf?usp=drive_link
PYST 651: Behaviour Modification Practical & Case Studies	Entire Paper	Nil	Entire Paper	Nil	Nil	Workshops https://drive.google.com/drive/folders/1fiIK2WwzQof5ePbz492YfQ05_nuXZ9pf?usp=drive_link



Criteria 1.1.3

Skill / Employability/ Entrepreneurship Components

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SI No.	Name of the Department	Components	Code, Name of the Paper and Unit	Topic
1.	BBA	Employability Skills	BACT301 Production and Operations Management	Production system
			BACV301 Consumer Behaviour BACV 301	Culture; Subculture & Cross-Cultural Influences; Group Dynamics and Consume
			BACE 351 Advertising and Media Management	Planning and managing creative strategies; Creative approaches; Building Advertising Program: Message, Theme, advertising appeals;
		Entrepreneurship	BACT301 Production and Operations Management	Infrastructure
			BACV301 Consumer Behaviour BACV 301	Event Management and Increasing leadership skills
			BACE 351 Advertising and Media Management	Public Relations
		Skill Components	BACT301 Production and Operations Management	Inventory Control system



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			BACV301 Consumer Behaviour BACV 301	Group Dynamics
			BACE 351 Advertising and Media Management	Group Dynamics
2. Biotechnology	Employability		BTCT 101 – Cell Biology & Genetics	- Salivary gland and Lamp brush chromosomes - Cell Senescence and programmed cell death. - Multiple allelism: Blood groups in Human beings - Mutations: - Human Genetics - Sex Determination in Plants and animals
			BTCP 101 – Cell Biology & Genetics Practical	- Mounting of polytene chromosomes - Buccal smear – Barr bodies - Karyotype analysis – Human (Human – Normal & Abnormal – Down & Turner's syndromes). RBC cell count by Haemocytometer
			BTOE 101 – Biotechnology for human welfare	Solving crimes of murder and rape; solving claims of paternity and theft by using DNA fingerprinting techniques
			BTCT 151 – Microbiological methods and techniques	Culture Media Antibiotic sensitivity testing methods



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			BTCP 151 – Microbiological methods and techniques Practical	Water analysis – MPN test
			BTOE 151 – Application of Biotechnology in agriculture	• Transgenic plants Biotechnology-Based Biopesticides: Baculovirus pesticides, Mycopesticides
			BTOE201 – Nutrition and Health	• Balanced diet. Meal planning. Eat the right concept. Functional foods, Prebiotics, Probiotics, and • geriatric. Nutrition-related metabolic disorders- diabetes and cardiovascular disease. Recommended Dietary Allowance, Body Mass Index, and Basal Metabolic Rate.
			BTCP 251 – Molecular Biology Practical	• DNA isolation from Bacteria, Plant & Animal tissue • Extraction and partial purification of protein from animal sources by organic solvents • Protein separation by SDS-Polyacrylamide Gel Electrophoresis (PAGE) Conjugation, Transformation and Transduction
			BTCT 301 – Genetic engineering	• RNA Analysis and Gene Expression • Hybridization techniques, Southern, Northern, Western, FISH, (PCR) molecular probes, DNA sequencing- Sanger's, Next Generation Sequencing Gene manipulation techniques



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		BTCT 302 – Plant and Animal Biotechnology	- Animal Cell Culture Methods - Organ and histotypic culture: - Gene transfer in animals - Somatic cell cloning - cloning of Dolly - Synthetic Seed Production.
		BTCP 302 - Plant and Animal Biotechnology	- Callus culture- Initiation and establishment of different types of callus cultures - Micropropagation
		BTCT 351 – Immunology	- Immunocytochemistry – Fluorescent techniques - Plantibodies - Cancer vaccines - Edible vaccines
		BTCP 351 – Immunology Practical	- Blood grouping - Staining of leucocytes - Whole count of WBC - Western blotting
		BTCT 352 – Bioprocess and environmental biotechnology	- Strain improvement and inoculum development - Media preparation - Upstream processing - Downstream processing
		BTCP 352 - Bioprocess and environmental biotechnology Practical	- Percentage of total alcohol - Percentage of volatile acidity in wine
	Entrepreneurship	BTOE 101 – Biotechnology for human welfare	Genetically engineered insulin, recombinant vaccines, gene therapy, molecular diagnostics using ELISA, PCR; monoclonal antibodies and their use in cancer; human genome project.
		BTCT 151 – Microbiological methods and techniques	Analytical techniques



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			BTOE 151 – Application of Biotechnology in agriculture	• Agricultural Biotechnology
			BTCP 201 – Biomolecules practical	• Determination of α-amylase activity by DNS method • Estimation of proteins by Bradford method • Estimation of amino acid by Ninhydrin method • Extraction of protein from soaked/sprouted green gram by salting out method • Separation of plant pigments by circular paper chromatography •
			BTCT 301 – Genetic engineering	• Genetic engineering in the development of therapeutics and vaccines • Production of biopharmaceuticals • Biofuel Production • Enzyme production
			BTCT 302 – Plant and Animal Biotechnology	• Laboratory organization • Media • Micropropagation
			BTCP 302 - Plant and Animal Biotechnology	• Callus culture- Initiation and establishment of different types of callus cultures • Micropropagation
			BTCP 351 – Immunology Practical	• Blood grouping • Staining of leucocytes



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			BTCT 352 – Bioprocess and environmental biotechnology	Microbial production of ethanol, enzymes and SCP.
			BTCP 352 - Bioprocess and environmental biotechnology Practical	- Production of wine - Production of ethanol - Production of amylase - Production of lactic acid
		Skill Components	BTCT 151 – Microbiological methods and techniques	Microscopy
			BTCP 151 – Microbiological methods and techniques Practical	- Sterilization techniques - Staining techniques - Plating techniques
			BTCT 251 – Molecular Biology	Regulation of Gene Expression and Translation
			BTCT 301 – Genetic engineering	CRIPR CAS 9
			BTCT 302 – Plant and Animal Biotechnology	- Nucleic Acid Extraction - Polymerase Chain Reaction - Cloning and Plasmid Manipulation - Gel Electrophoresis and DNA Analysis
			BTCP 302 - Plant and Animal Biotechnology	- Staining, cell viability, and cell count of cell cultures - Cell counting and viability assessment: - Cell staining and microscopy
			BTCT 351 – Immunology	ELISA, RIA



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3. Botany			BTCP 351 – Immunology Practical	- RID - ODD
			BTCT 352 – Bioprocess and environmental biotechnology	- Biosensor construction - Lyophilization
			BTCP 352 - Bioprocess and environmental biotechnology Practical	Isolation of industrially important microorganisms
	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
			BYCP101: MICROBIAL DIVERSITY AND TECHNOLOGY	Practical 8: Preparation of spawn and cultivation of paddy straw (Oyster) mushroom.
	Employability Components		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



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				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
4.	B. Voc Digital Media & Filmmaking	Skill Components	BVOCDMF101 Unit-III	Introduction to writing skill, Preparation for writing, Qualities of Writer
			BVOCDMF102 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
			BVOCDMFP103 Unit-I, Unit-2	Basics of Writing, Character development
			BVOCDMFP-104 Unit-1, Unit-2,Unit-3, Unit-4	Basics of Microsoft office, Basics of formal writing, Basic internet skills, Personal profiling on social media
			BVOCDMFP-105 Unit-1, Unit-2	Basic profiling, Story exercises
			BVOCDMF-151 Unit-IV	Screen play Drafting, Classic Screen play format, Characterisation, Scene Structure, Shooting Script, Writing



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				Dialogues, Use of sound in Script
			BVOCDMF-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
			BVOCDMFP-153- Unit-1, Unit-2	Pre Screenplay exercise, Screenplay writing format introduction
			BVOCDMFP-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 Mandatory content creation and updating the blog
			BVOCDMFP-155 Unit-II, III	Blog creation, Blog setup, Writing movie reviews, Writing promotional content, Creating infographics, Entertainment articles



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			BVOCDMF-202 Unit-II	Brand voice and style sheet logos taglines packaging jingles digital mascots colour design brand ambassadors Keywords Hashtags Posters Advertisements
			BVOCDMFP-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
			BVOCDMFP-205 Unit-III	Multimedia approach
			BVOCDMF-251-Unit-IV	Technique of Budgeting, role of director in budgeting, budgeting format.
			BVOCDMF-252 Unit-III	Designing digital ads Google and marketing Social media marketing E-mail marketing Audience targeting
			BVOCDMF-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, location, property management, editing report format writing



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			BVOCDMFP-254-Unit-III	• Launching a product/service online
			BVOCDMFP-255-Unit-II	• Short Movie production
			BVOCDMF-301-Unit-III	• Introduction to Editing Software's, Montage editing, Sound and visual editing
			BVOCDMF-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
			BVOCDMF-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



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			BVOCDMF-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
			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



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				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
			BVOCDMF103-Unit-1V	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 Prodcution, Fundamentals of Film Screen play
			BVOCDMFP-153- UnitIV	Screenplay Production process
			BVOCDMFP-154-Unit-1V	Creation of blog



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		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 & 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,



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				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 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



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				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.
5.	B. Voc in 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.



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				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
			RETAIL SELLING SKILLS: BVOCRSP 105, MODULE I, II, III, IV	Retail Selling Skills. Manners & Etiquettes: Body Language-Face & Body Expressions-Self Presentation-Voice Modulations Basic Communication Skills: Use of Words-Use of Signs-Communicating First Time with the Customers-Use of Hands. Customer Dealing: How to Build Patience-Developing Listening Skills-Humor in Conversation-Understanding the Customer Need-Anger Control. Conversational Skills Development on Phone: How to Make calls-Answering the Calls Representing the Company-Following the Company's Procedure Stress Management: Handling Complaints-Handling Stress-Keeping Calm in Stress-Overcoming Anxiety



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				Self Introspection: Knowing Self-SWOT Analysis- Discovering own Personality. Refreshing Knowledge. Developing Relationships: Memory Skills-Feedback from Customers.
			INVENTORY MANAGEMENT: BVOCRS-152, Module II, III	Material Requirement Planning and Execution – Ratio Analysis on Inventory, Manufacturing Planning(MRP), Make or Buy Decisions.
			SUPPLY CHAIN MANAGEMENT: BVOCRS 154, Module I, III, IV	Strategic, tactical, operational decisions in supply chain, Vendor Identification – Selection – Evaluation – Development – Supplier Relationship Management – 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-



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		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.
		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 –



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				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.
			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



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				behavior and market regulation
			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.
		Employability Components	INVENTORY MANAGEMENT: BVOCRS-152, Module IV	General Management of Inventory
			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



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				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
			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



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			TRANSPORTATION AND DISTRIBUTION MANAGEMENT: BVOCRS-354, Module I, IV	Transportation management, Transportation administration, Transportation operations management
			CONSUMER BEHAVIOR: BVOCRSP-355, Module IV	loyalty marketing
6.	B. Voc in Software and App Development	Skill Components	BVOCAS201 - Python for Data Science	Data Analytics including all four modules
			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



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			BVOCAS101 - Introduction to Python Programming	Python Developer including all four modules
7. Chemistry		Employability Components	CHCT351- Inorganic and Physical Chemistry - IV	Unit IV- Thermo-analytical methods
			CHCT 352- Organic Chemistry- II	Unit IV- 1.Photoelectron Spectroscopy 2.Electron Para Magnetic Spectroscopy 3.Flame photometry
	Skill Components		CHCP301- Inorganic and Physical Chemistry Practicals - III	All experiments
			CHCP302- Organic Chemistry Practicals - I	All experiments
			CHCP351 – Inorganic and Physical Chemistry Practicals - IV	All experiments
			CHCP352- Organic Chemistry Practicals - II	All experiments
			CHMP 351- Mini Project	Project
8. Commerce	Skill Components		Secretarial Management, Module 1	Skills of a Secretary at entry level, middle level, Higher level
			Cost and management accounting, chapter-III	Preparation of Process cost sheet



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		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



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		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
			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



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			Entrepreneurship Skills, Unit - II Business Ethics, Unit - II & IV	Government institutions/schemes promoting entrepreneurs
			Entrepreneurship Skills, Unit - III	Corporate code of ethics
				Setting up of an Enterprise
9.	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



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			CACT 253: Operating System Concepts	Entire course
			CSOE 101: Office Automation All Units	Entire course
			CSOE 151: Web Designing All Units	Entire course
			CSOE 201: Programming in C Concepts All Units	Entire course
			CSOE 251: Python Programming Concepts, E-Commerce All Units	i. Python Programming Concepts 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



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			CACT 251: Python Programming All Units	Entire course
			CACT 252: Computer Multimedia and Animation All Units	Entire course
10.	Economics and Rural Development	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
			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



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			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
		Entrepreneurship	ECCT-301	Public finance. Private finance.
			ECCT-302	- Unbalanced Growth, - Capital Accumulation. Technology and Economic Development.
			ECCT-303	Digital Wallets. Use of artificial intelligence and machine learning in banks. Currency markets and forex trading;
			ECCT-351	Terms of trade
			ECCT-353	3Rs – Reduce, Reuse and Recycling Measures.
			RDCT301	PRA techniques in rural development.
			RDCT302	- Rural entrepreneurship. - Rural Entrepreneurial opportunities. - Role of government agencies.



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			RDCT303	Career development tasks.
			RDCT351	E-governance
			RDCT352	Use of ICT in Rural and agricultural development.
			RDCT353	Human Resource Planning. Training of rural administration personnel



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11.	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
12.	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 SahityakaParichaya	Sahityakaronka Parichaya
			Anuvaad Koushal	Anuvaad Koushal
13.	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	Archaeological evidence - PGW, NBPW Culture



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			Chapter III	
			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
			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.
			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
14.	Home Science	Skill Components	HSCT101 Principles of Food and Nutrition-Unit-1&5	1. Meal Planning Methods of Cooking
			HSOE101, Food Preservation-Unit-2&3	1. Methods of Dehydration and Drying Preservation by using Salts, Chemicals and Fermentation
			HSCT151, Fundamentals of Human Development-Unit-Practical	Preparation of album on the stages of prenatal development
			HSOE151 , Teaching Materials For Early Childhood Education-Unit-1,2,&3	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 Evaluation of parent education program
			HSOE201, Fundamentals of Interior Decoration-Unit-2 & 3	1. Interior Decoration 2. Accessories in Interiors Choice of colour in different rooms
			HSCT251, Introduction to Textiles-Unit-1 &2	1. Basic Weaves Dry Cleaning
			HSOE251, Fashion Designing-Unit-2 & 3	1. Identification of Fibres 2. Fashion Illustration Principles and its application in



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				dress design
		Employability Components	HSCT101 Principles of Food and Nutrition- Unit-4	1. Food Preservation Food Handling and Storage
			HSOE101, Food Preservation-Unit-2&3	Food Preservation and Storage
			HSCT151, Fundamentals of Human Development-Unit-2	Preschool Education
			HSOE151 , Teaching Materials For Early Childhood Education-Unit-1,2,&3	Teaching Materials for Early Childhood Education
			HSCT201, Early Childhood Care and Education-Unit-2 &3	1. Curriculum models and Programme Planning Personnel Management
			HSOE201, Fundamentals of Interior Decoration-Unit-2 & 3	1. Interior Decoration in India Selection and placement of accessories
			HSCT251, Introduction to Textiles-Unit-2 &3	1. Finishing 2. Manufacturing Process 3. Processing of Fabric a. Dyeing Printing
			HSOE251, Fashion Designing-Unit-3	1. Fashion Design Fashion Designer
15.	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,



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				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
			OE 4: Translation for Media	Opportunities in media translations.
16.	Kannada	Employability Components	OKOE 201 ಕನ್ನಡ ಮುಕ್ತ ಆಯ್ಕೆ ಪತ್ರಿಕೆ Unit-1	ಭಾಷಾಂತರ ತತ್ವ ಮತ್ತು ಪ್ರಯೋಗ
17.	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.



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			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.
			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^{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	All the practical related to the topics



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		Employability Skills	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	
			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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18.	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
			PHC1 Research Methodology & Computational Techniques, Unit IV	LATEX, Mathematica, Matlab, Origin
		Employability Components	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
19.	Psychology	Skill Components	PYH402: Quantitative Research Methods Unit III	Interdisciplinary Methods



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			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
		Employability Components	PYH453: Counselling Skills Unit Iii	Basic and advanced skills of counselling
			PYH451: Quantitative Research Methods Unit Iv	Project proposal; project report writing
			PYH452: Statistics In Psychology Unit Iv	Use of computers in statistics - SPSS.



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20. 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
21. Statistics	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
		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



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			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
			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