



**Prof. Dr. Avinash S. Jagtap**  
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Anekant Education Society's

**TULJARAM CHATURCHAND COLLEGE**

**of Arts, Science and Commerce, Baramati - 413102.**

Dist. Pune. Maharashtra, India.

**Empowered Autonomous Status**

Religious Minority Institute

NAAC Reaccredited 'A+' Grade, CGPA 3.55

**NAAC-SSR**

**Cycle IV**

**2019 - 2024**

### Criterion I : Curricular Aspects

**1.1.2**  
**Q<sub>i</sub>M**

The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements.

## List of Courses and Course Content which Focus on Employability/ Entrepreneurship/ Skill Development





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## Faculty of Arts



HINDI

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skill(s)
1)	B.A. Hindi	1)UAHN111 / UAHN121 (FYBA)	2022-23	Employability, entrepreneurship & Skill Development	1) Bio data writing 2) Essay writing 3) Advertisement writing 4) Dialogue skill 5) Group dissection 6) Email writing 7) Internet
2)	B.Com. Hindi	2)UCHIN111 (C) (FYBCom)	2022-23	Employability, entrepreneurship & Skill Development	1) Dialogue skill 2) Translation 3) Advertisement writing 4) Letter writing 5) Writing the many form of Bank & Railway
3)	B.A. Hindi	3)HIN 2301 / 2401 (SYBA)	2020-21	Employability, entrepreneurship & Skill Development	1) Advertisement writing 2) News writing 3) Interview skill
4)	B.A. Hindi	4)HIN 3501 / 3601 (TYBA)	2021-22	Employability, entrepreneurship & Skill Development	1) Program composition skills 2) Translation 3) News writing 4) Government Letter writing
5)	M.A. Hindi		2022-23	Skill Development	1) writing skill 2) reading skill 3) Listening skill
5)	M.A. Hindi	Certificate Course	2022-23	Employability, entrepreneurship & Skill Development	Translation Certificate Course
6)	M.A. Hindi	Certificate Course	2022-23	Employability, entrepreneurship & Skill Development	Anchoring skill Certificate Course



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## MARATHI



Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skill(s)
1.	मराठी साहित्य : कथा आणि भाषिक कौशल्य विकास	UAMR111	2022-23	Skill development	निवडक मराठी कथा संपादक डॉ. वसंत शेकडे , डॉ. गीता मांजरेकर आणि इतर शब्दालाय प्रकाशन श्रीरामपूर भाषिक कौशल्ये
2.	मराठी साहित्य : कविता आणि भाषिक कौशल्य विकास	AMR121	2022-23	Skill development	सिद्धर कर म्हणतेय माती
3.	भाषा साभाषा साहित्य आणि कौशल्य विकास विकास	CMR111(B)	2022-23	Skill development	इडली आर्किड आणि मी - विठ्ठल कामत निबंध लेखन, ललित लेखन, वैचारिक व वाणिज्यविषयक लेखन
4.	भाषा आणि कौशल्य विकास I	UCMR121(B)	2022-23	Entrepreneurship/ Skill development	अर्ज लेखन, पत्र लेखन, इतिवृत्तलेखन , टिपण्णी लेखन, माहितीपत्रक, जाहीर निवेदन, निविदा , पारिभाषिक संज्ञा, सारांश व संवाद लेखन
5.	व्यावहारिक व उपयोजित मराठी भाग-१	PAMAR111	2022-23	Employability/ entrepreneurship/ skill development	मुद्रित शोधन, प्रमाण लेखन, प्रकाशन व्यवसाय, मुलाखत, साहित्यसंस्था व त्यांची कार्यपद्धती, संमेलने, स्मरणिका, विशेषांक, ग्रंथसंपादन व मांडणी.
6.	मध्ययुगीन मराठी वाङ्मयाचा इतिहास- प्रारंभ ते १६००	PAMAR112	2022-23	Employability/ entrepreneurship/ skill development	मध्ययुगीन काळातील विविध साहित्यप्रकार व त्याची वैशिष्ट्ये, भाषिक अविष्कार सादरीकरण पद्धती.
7.	भाषा विज्ञान: वर्णनात्मक	PAMAR113	2022-23	Employability/ entrepreneurship/ skill development	भाषेचे स्वरूप. भाषा स्वरूप लक्षणे, ध्वनिपरिवर्तन, भाषाविज्ञान अभ्यासपद्धती, स्वनिम, रुपिम, वाक्य अर्थविचार.
8.	ग्रामीण साहित्य	PAMAR114	2022-23	Employability/ entrepreneurship/ skill development	साठोतरी मराठी ग्रामीण साहित्य स्वरूप, प्रेरणा, ग्रामीण साहित्य चळवळ, प्रवृत्ती, वाटचाल, विविध वाङ्मयप्रकार, ग्रामीण भाषा- बोली



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					आविष्कार, देशी पण, ग्रामीण साहित्याचे बदलते विषय
9.	व्यावहारिक व उपयोजित मराठी भाग-२	PAMAR 121	2022-23	Employability/ entrepreneursh ip/ skill development	निवेदन व प्रकार, माध्यमनिहाय निवेदनाचे स्वरूप, भाषांतर, अनुवाद, रूपांतर, जनसंपर्क कौशल्य, प्रकल्पलेखन स्वरूप वैशिष्ट्ये, शैक्षणिक सहल- प्रसारमाध्यमांना भेट.
10.	मध्ययुगीन मराठी वाङ्मयाचा इतिहास- १६०० ते १८१८	PAMAR122	2022-23	Employability/ entrepreneursh ip/ skill development	संत साहित्य प्रेरणा स्वरूप, पंडिती काव्य, बखर वाङ्मय, शाहिरी वाङ्मय, शैक्षणिक सहल,
11.	भाषाविज्ञान: सामाजिक	PAMAR123	2022-23	Employability/ entrepreneursh ip/ skill development	सामाजिक भाषाविज्ञान स्वरूप व्याप्ती, भाषा व समाज परस्पर संबंध, भाषा आणि इतर क्षेत्रे, भाषेचा लिंग भेदानुसारी वापर, प्रमाण भाषा आणि पर भाषा परस्पर संबंध, तंत्रज्ञानाधारित क्षेत्र निवडून मराठी भाषा शब्दसंग्रह- प्रात्यक्षिक.
12.	दलित साहित्य	PAMAR124	2022-23	Employability/ entrepreneursh ip/ skill development	साठोत्तरी मराठी साहित्य, दलित साहित्य आणि समाज सह संबंध, दलित साहित्यातील विविध साहित्य प्रकार, दलित साहित्याचे भाषिक आविष्कार रूपे, प्रात्यक्षिक दलित साहित्यावर गटचर्चा, सादरीकरण, रसग्रहण, नवीन शब्द संकलन.



## English

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1	Compulsory English	UAEN111	2019-20	Employability Skill Developments	Comprehension of a Newspaper advertisement
2	Functional English	UCFE121	2019-20	Employability Entrepreneurship	Functional Writing
3	Additional English	UCFE111	2019-20	Skill Development	Comprehension and Grammar
4	Compulsory English	ENGCO 2301	2020-21	Skill Development	Communication Skills





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5	Optional English	ENG CO(B)	2020-21	Skill Development	Vocabulary and Grammar
6	Technical English	ENG 2301	2020-21	Skill Development	Communication Skills
7	Compulsory English	ENGCO 3501	2020-21	Skill Development	Reading Comprehension
8	Advanced Study of English Language and Literature (G-III)	ENGGE 3502	2020-21	Language Skill Development	Vocabulary and Grammar
9	Appreciating Novel (S-III)	ENG SPL 3503	2021-21	Language Skill Development	Animal Farm
10	Introduction to Literary Criticism(S-IV)	ENG SPL 3504	2020-21	Language Skill Development	Plato's Republic
11	English Literature from 1550-1798	PAEN111	2019-20	Language Skill Development	Robinson Crusoe
12	English Literature from 1798 to 2000	PAEN112	2019-20	Language Skill Development	Waiting for Godot
13	Contemporary Studies in English Language	PAEN113	2019-20	Language Skill Development	Semantics
14	Literary Criticism and Theory	PAEN 114	2020-21	Linguistic and interpretive skill Development	Aristotle's Poetics
15	English Language and Literature Teaching	ENG 5402	2020-21	Language Skill Development	Theories of Language Learning
16	Drama in English	ENG 5403	2020-21	Language Skill Development	Dr. Faustus by Marlow
17	American Literature	ENG 5404	2020-21	Language Skill Development	Slave Narratives
18	Indian Writing in English	ENG 5401	2020-21	Linguistic and Interpretive Skill Development	The Poems of Toru Dutt





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## Economics

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1	Indian Economy – Problems and Prospects	UAEC 111	2022-23	Skill Development	Indicators of Economic Development, Concepts related to Demography
2	Banking & Finance	ECOGEN2 301	2022-23	Skill Development	Technology in Banking
3	Micro Economics -I	ECOSPL23 02	2022-23	Employability	Study of various Cost Concepts
4	Economic Development and Planning-I	ECOGEN3 501	2022-23	Skill Development	Measuring Development with Indicators of Economic Development

## Politics

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills
1	Indian Government And Politics	POL1101	2019	Employability/Skill development	Background and the Salient Features of Indian Constitution, Fundamental Rights, Duties and the Directive Principles of State Policy, Federalism ETC.
2	Public Administration	POL-4102	2019	Employability.	Governance, Accountability and Control, Contemporary Public Administration.
3	Public policy	POL-4201	2019	Entrepreneurship.	Public Policy, Public Policy Making, Public Policy Implementation, Policy Analysis in India





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4	Comparative Politics	POL-4203	2019	Skill development	Organizing the state, Governmental Structures, Parties and Groups, Political Development
5	Political Theory	UAPO-231	2022	Skill development	State, Power & Authority, Right and Justice
6	Western Political Thought	UAPO 232	2022	Entrepreneurship.	Plato, Aristotle, Machiavelli, J.S.Mil
7	Political Process in India	PAPO 242	2022	Employability.	Overview of Electoral Politics, Nature of Party System, Politics of Regionalism, Role of Caste in Indian Politics
8	Political Participation	PAPO 243	2022	Employability/Skill development.	Political Socialization and Political Culture, Public Opinion, Political participation, Women's Participation
9	Party System in India	PAPO 244	2022	Employability/Skill development	Early Phase of Party Politics, Congress, BJP ,Other Parties
10	INTRODUCTION TO INDIAN CONSTITUTION	UAPO 111	2022	Employability/Skill development	Making of the Indian Constitution, Fundamental Rights, Duties and Directive Principles, Federalism, Constitutional Amendments: Scope and Limitations
11	Political Ideologies G - 3 p	POL 3501	2019	Entrepreneurship.	Nation Democratic Socialism, Right and Justice
12	Public Administration S - 3	POL 3502	2019	Employability/Skill development	New Public Administration, Governance
13	International Politics S - 4	POL 3503	2019	Employability/Skill development	Approaches to the Study of International Relations, Power, Balance of Power



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14	Introduction to Political Science	POL-101-MJM	2023 NEP	Employability/Skill development	Introduction to Sub-disciplines of Political Science, State and Democracy, Concepts of Political Science, Concepts of Political Science
15	Basics of Indian Constitutions	POL-116-OE	2023 NEP	Entrepreneurship.	Making of the Indian Constitution, Fundamental Rights, Fundamental Duties
16	Principles in Public Administration	POL-102-MJM	2023 NEP	Employability/Skill development	Public Administration Teaching, Approaches to Public Administration, New Public Administration
17	Political Leadership Development	POL-126-SEC	2023 NEP	Entrepreneurship.	Introduction to Political Leadership, Characteristics and Qualities of Effective Political Leaders, Communication and Negotiation Skills in Politics.
18	Historical Background of Indian Political Thought	POL-137-IKS	2023 NEP	Employability/Skill development	Ancient Indian Political Thought Teaching Hours, Indian Legacy of Political Thought, Western Impact on Indian Political Thought
19	Political Journalism	POL-121-VSC	2023 NEP	Employability/Skill development,	An introduction to Political Journalism, Agencies of Political Journalis, History of Political Journalism
20	Research Methodology in Political Science	POL-521RM	2023 NEP	Employability/Skill development.	Introduction to Social Research, Research Design, Quantitative Research, Mixed-





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					Methods Research, Basic Course in Microsoft Excel and Data
21	Political Leadership Development	POL-504-MJM	2023 NEP	Employability/Skill development	Introduction to Political Leadership, Characteristics and Qualities of Effective Political Leaders, Communication and Negotiation Skills in Politics



## Psychology

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skill(s)
1	Applied Psychology	PAPS 3601	2021	Skill development	Advertising and Consumer Psychology
2	Psychological Research	PSY 3502	2021	Skill development	Research Proposal, Research paper writing, Report writing
3	Psychology Practical: Test	PSY 3503	2021	Skill development	Rapport Establishment, psychological Testing Report writing
4	Applied Psychology II	PSY 3601	2021	Skill development	Family and marital problem solutions, Disaster management
5	Experimental Psychology	PSY 3601	2021	Skills development	Report Writing, Decision making
6	Cognitive Psychology	PAPS 111	2022	Skills development	Language and related cognitive phenomena
7	Psychometrics	PAPS 112	2022	Skills development	Item Analysis, steps in developing norms
8	Statical Methods	PAPS 113	2022	employability	Application of statistical



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					software
9	Psychology Practical: Test	PAPS 114	2022	Skill development	General ability test, creativity, thinking
10	Project	PAPS 234	2022	Employability,	Statistical Analysis

## Sociology

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1	Introduction to Sociology	UASO111	2022-23	Skill Development	1. Basic Concepts in Sociology 2. Social Stratification and Mobility 3. Culture and Socialisation
2	Social Research Methods	SOCSP13502	2020-21	Skill Development	1. Selection and Formulation of Research Problem 2. Research Process 3. Research Design
3	Crime and Society	SOCGEN2401	2020-21	Skill Development	1. Theories in Crime 2. Basic Concepts in Crime



## History

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1	Early India	UAHS 111	2022	employability	Harappan Culture : Bronze Age Civilization
2	Early India	UAHS 111	2022	employability	Sources and Tools of historical



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					reconstruction- Archaeology, Eprgraphy, Numismatics, Literary sources
3	Modern India-Part I	HIS GEN 2301	2019	entrepreneurship	Administrative Policy of the British
4	Ancient India-Part I	HIS SPL I 2302	2019	employability	Sources for the study of Ancient India History
5	Ancient India-Part I	HIS SPL I 2302	2019	entrepreneurship	Economic Tranformation
6	Medieval India-Part I	HIS SPL II 2303	2019	Entrepreneurship, Skill Development	Delhi Sultanate : Arts and Science
7	Evolution of Ideas and Institutions in Early India	PAHS 112	2022	entrepreneurship	Sources : Perceptions, Limitations , Range
8	Evolution of Ideas and Institutions in Early India	PAHS 112	2022	entrepreneurship	Economy
9	Maratha Polity	PAHS 113	2022	entrepreneurship	Nature of Sources : Perceptions, Limitations , Range
10	Maratha Polity	PAHS 113	2022	Skill Development	Administrative Structure
11	Ancient and Medieval Civilization of the World	HIS 5301	2019	Skill Development	Ancient Civilization : Egypt, Mesopotamia, Persia, India, China
12	Economic History of Modern India	HIS 5303	2019	Employability , entrepreneurship	Industry
13	Economic History of Modern India	HIS 5303	2019	Employability , entrepreneurship	Banking
14	Maharashtra in the 19 <sup>th</sup> Century	HIS 5304	2019	Employability , entrepreneurship	Economic Transformation
15	History of Modern India (1857-1971)	HIS 5401	2019	Gender, Human Values, Sustainability	Issues and Movements in Modern India



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1	Physical Geography	UAGG111	2022	skill development	Collection of weather data
2	Human Geography	UAGG 121	2022	employability	Urban Planning
3	Principles of Geomorphology	PAGG 111	2022	Employability, skill development	Soil Analysis, rock identification
4	Principles of Climatology	PAGG 112	2022	Employability, skill development	Whether prediction, climatic region
5	Principles of Economic Geography	PAGG 113	2022	Entrepreneurship, skill development	Horticulture, floriculture
6	Principles of Population and Settlement Geography	PAGG 114	2022	Employability, entrepreneurship, skill development	Population Prediction, Urban and rural planning
7	Practical in Physical Geography	PAGG 115	2022	Employability, skill development	Soil Analysis, rock identification
8	Practical in Human Geography	PAGG 116	2022	Employability, entrepreneurship, skill development	Horticulture, floriculture, Population Prediction, Urban and rural planning
9	Geoinformatics - I	PAGG 121	2022	Employability, entrepreneurship, skill development	Map making, digitization, topology building
10	Fluvial Geomorphology	PAGG 122 (A)	2022	skill development	Drainage system, Segments
11	Synoptic Climatology	PAGG 122 (B)	2022	skill development	Forecasting
12	Population Geography	PAGG 122 (C)	2022	Employability	Population Prediction
13	Coastal Geomorphology	PAGG 123 (A)	2022	skill development, Employability	Sediment classification
14	Monsoon Climatology	PAGG 123 (B)	2022	skill development, Employability	El nino, Tracking of rainfall





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15	Geography of Rural Settlements	PAGG 123 (C)	2022	Employability, entrepreneurship, skill development	Urban Planning, rural planning
16	Geography of Disaster Management	PAGG 124	2022	Employability, entrepreneurship, skill development	Disaster management
17	Practical in Surveying	PAGG 125	2022	Employability, entrepreneurship, skill development	Total station, Drone survey, DGPS
18	Practical of Statistical Techniques for Geography	PAGG 126	2022	Employability, entrepreneurship, skill development	Correlation, regression, prediction

## Sanskrit

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1.	Sanskrit Bhasha Prabodha - 1	SAN3501	2021-22	Skill Development	Hastalikhitsastracha Parichay
2.	Sanskrit Bhasha Prabodha - 2	SAN3601	2021-22	Employability	Sadyakalin Sanskrit Kshetracha Adhava

## Philosophy and Logic

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1	Introduction to Philosophy	UAPH111	2022-23	skill developmentetc	methods of philosophy
2	Moral Philosophy	UAPH121	2022-23	entrepreneurship	Media Ethics
3	Traditional Logic	UALO111	2022-23	skill development	Four-Fold Scheme of Proposition
4	Traditional Logic	UALO121	2022-23	skill development	Hypothesis





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## Faculty of Science



### Botany

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1.	Diversity of Cryptogams	USBT111	2022-23	Skill development	Identification of cryptogams
2.	Industrial Botany - I	USBT112	2022-23	Entrepreneurship	Plant resources and industries, Floriculture Industry, Plant Nursery Industry, Plant Tissue Culture Industry, Agri Industries and Post-Harvest Technology.
3.	Practical - I	USBT113	2022-23	Skill development	Identification of cryptogams, Internal and external characters.
4.	Diversity of Spermatophytes	USBT121	2022-23	Skill development	Plant taxonomists and expert in identification of local flora.
5.	Industrial Botany - II	USBT122	2022-23	Entrepreneurship/Skill development	Bio-fuel Industry, Bio-pesticide Industry, Industrial Mycology, Bio-Fertilizer Industry, Fruit Processing Industry and Pharmaceutical Industry.
6.	Practical - II	USBT123	2022-23	Skill development	Handling of microscope and identification of higher plants
7.	Taxonomy of Angiosperms	USBT231	2021-22	Skill development	Identification, classification, nomenclature and concept of Systematics.
8.	Plant Physiology	USBT232	2021-22	Skill development	Expertise in plant physiology.
9.	Practical	USBT233	2021-22	Skill development	Expertise in plant physiology



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	based on USBT 231 and USBT 232					
10.	Cryptogamic Botany	BOT3501	2020-21	Skill development	Diversity of Algae, Fungi, Bryophyte and Pteridophytes.	
11.	Spermatophyta and Palaeobotany	BOT3502	2020-21	Skill development	Detail study of families, taxonomy and classification systems.	
12.	Cell and Molecular Biology	BOT3503	2020-21	Skill development	Different cytological techniques, Synthesis of nucleic acids and PCR technique.	
13.	Industrial Botany	BOT3504	2020-21	Entrepreneurship/Skill development	Hydroponics, Gardening, Harvest Technology,	
14.	Biostatistics	BOT3505	2020-21	Skill development	Biostatistics, sample and sampling, collection and representation of data, measures of central tendency of grouped and ungrouped data, Measures of dispersion, Correlation and regression, seed testing and plant growth indices.	
15.	Research Methodology	BOT3506	2020-21	Skill development	Research questions and hypothesis, Data Collection, Preparation of Project Report, and Case study.	
16.	Practical based on BOT3501 and BOT3503	BOT3507	2020-21	Skill development	Systematic position thallus structure and reproduction of Algae, Fungi, bryophytes, pteridophytes. Study of mitosis and meiosis, DNA and RNA Isolation.	
17.	Practical based on BOT3502	BOT3508	2020-21	Skill development	Identification of plants, internal structure and external structure.	
18.	Practical	BOT3509	2020-21	Entrepreneurship/	Hydroponics industry,	



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	based on BOT3504 to BOT3506			Skill development	bottle and circular gardening, and Bonsai Preparation
19.	Plant Systematics I	BOT4101	2019-20	Skill development	Study of cryptogamic diversity with respect algae, fungi, bryophytes.
20.	Cell Biology	BOT4102	2019-20	Skill development	Study of different cytological techniques, cell organelle, cell cycle and plant signaling mechanism.
21.	Genetics and plant Breeding	BOT4103	2019-20	Entrepreneurship/ Skill development	Chromosomal structural and numerical alterations and breeding techniques in plants.
22.	Advanced Botanical techniques	BOT4104	2019-20	Skill development	Advance botanical techniques, Light microscopy, Confocal microscopy, Phase Contrast microscopy, Fluorescence microscopy, Electron microscopy (SEM and TEM), Flow Cytometry, Microtomy, Micrometry and camera Lucida, Chromatography and Electrophoretic Agarose gel electrophoresis, Pulsed Field Gel Electrophoresis and Polyacrylamide Gel Electrophoresis, Spectroscopic, Radioactive, Centrifugation and DNA sequencing techniques-Sanger's method etc.
23.	Practicals based on BOT. 4101 & 4102	BOT4105	2019-20	Skill development	Study of habitats and habit diversity cryptogams, internal and external characters of Algae, Fungi, and Bryophytes.  Isolation of Nuclear fraction, DNA and RNA, Chloroplast.
24.	Practicals based on BOT. 4103 & 4104	BOT4106	2019-20	Skill development	Preparations of stains, fixatives, preservatives and pretreatments to plant material, Conventional plant breeding techniques





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					(Emasculation). Binocular microscope, PCR, HPLS, GCMS and SEM.
25.	Plant Systematics – II	BOT4201	2019-20	Skill development	Need of conservation, identification of cryptogams, pteridophytes, fossil pteridophytes and fossil gymnosperms and living gymnosperms.
26.	Plant Physiology and Biochemistry	BOT4202	2019-20	Skill development	Physiological processes in plant and role of primary metabolites and secondary metabolites of plant.
27.	Molecular Biology & Genetic Engineering	BOT4203	2019-20	Skill development	Isolation of gene from plant and gene library techniques.
28.	Plant Ecology and Biodiversity	BOT4204	2019-20	Skill development	Conservation of biodiversity, ecosystem, applied ecology.
29.	Practicals based on BOT 4201 and BOT 4202	BOT4205	2019-20	Skill development	Morphological, anatomical and reproductive studies of living pteridophytes and living gymnosperms and fossil record.
30.	Practicals based on BOT 4203 and BOT 4204	BOT4206	2019-20	Skill development	Preparation of solution of different concentrations, Buffers, Conductivity and pH Measurements,
31.	Angiosperms and Evolution	BOT5301	2020-21	Skill development	Identification of Angiosperms, Systematics and Classification of Angiosperms
32.	Developmental Botany	BOT5302	2020-21	Skill development	Case study of organ culture, anther, pollen and protoplast cultures.
33.	Computational Botany	BOT5303	2020-21	Skill development	Biostatistics, bioinformatics and biomathematics.
34.	Advanced Plant	BOT5304	2020-21	Skill development	Seed viability and dormancy, methods of breaking seed



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	Physiology	(A)			dormancy, factors affecting on seed germination.
35.	Advanced Mycology and Plant Pathology	BOT5304 (B)	2020-21	Entrepreneurship/skill development	Mushroom cultivation industries.
36.	Bryology	BOT5304 (C)	2020-21	Skill development	In-situ and Ex-situ conservation of bryophyte techniques
37.	Angiosperm Taxonomy	BOT5304 (D)	2020-21	Skill development	Plant taxonomy, Family and classification of plant.
38.	Practical's Based on BOT 5301, 5302, 5303	BOT5305	2020-21	Skill development	Plant family identification, development Botany, and Computational botany
39.	Practical's based on Advanced Plant Physiology	BOT5306 (A)	2020-21	Skill development	Estimation of total alkaloids, starch, chloroplast, enzymes, caffeine and total flavonoids.
40.	Practical's based on Advanced Mycology and Plant Pathology	BOT5306 (B)	2020-21	Skill development	Preparation of nutrient media PDA, CDA, SDA, Isolation of pathogenic fungi, root, stem, leaf, fruit baiting techniques, rhizosphere and non rhizosphere soil fungi, and other fungal group examples, identification of soil micro fungi.
41.	Practical's based on Bryology	BOT5306 (C)	2020-21	Skill development	Identification of Bryophytes with respect to division Hepaticopsida, Anthocerotopsida and Bryopsida.
42.	Practical's based on Angiosperm Taxonomy	BOT5306 (D)	2020-21	Skill development	Identification of family, genus and species.
43.	Plant Pathology	BOT5401	2020-21	Skill development	Plant disease identification: nature and concept of plant disease, classification of plant diseases, causes of plant diseases, symptoms





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					of plant diseases, disease cycle.
44.	Industrial Botany	BOT5402	2020-21	Entrepreneurship/skill development	Algal Technology, Algal Products, Biopesticide Technology, Biofuel Technology, Bioethanol Technology, Fermentation Technology, Alcohol and Beverage Industry, Organic Acid Industry, Antibiotic Industry, Food Industry, Nutrition Garden and Entrepreneurship.
45.	Plant Biotechnology	BOT5403	2020-21	Entrepreneurship/skill development	Plant Tissue Culture, Agricultural Biotechnology, Nano-world, Nano science and Nanotechnology
46.	Advanced Plant Physiology	BOT5404	2020-21	Skill development	Physiological techniques, stress physiology, Allelochemicals, Crop Physiology and Enzymology,
47.	Advanced Mycology and Plant Pathology	BOT5404 (B)	2020-21	Entrepreneurship/skill development	Industrial mycology, biotechnological, mushroom cultivation.
48.	Bryology	BOT5304 (C)	2020-21	Skill development	In-situ and ex-situ conservation of bryophytes techniques.
49.	Angiosperm Taxonomy	BOT5404 (D)	2020-21	Skill development	Identification of plant from fields and taxonomic study.
50.	Practical's on BOT 5401,5402,5403	BOT5405	2020-21	Entrepreneurship/Skill development	Pathological techniques of plants, Industrial Botany, Plant Biotechnology

## Chemistry



Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1	Physical and inorganic chemistry	USCH111	2022	Skill development	Mathematical concept in chemistry
2	Organic and	USCH112	2022	Skill	Scientific approach



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	inorganic chemistry			development	
3	Chemistry practical	USCH113	2022	Skill development	Awareness, chemical and lab safety
4	Physical and inorganic chemistry	USCH121	2022	Skill development	Thermochemistry
5	Chemistry practical	USCH123	2022	skill development	Mathematical knowledge
6	Practical Course III	CHEM2303	2021	Skill development	Qualitative analysis
7	Practical course IV	CHEM2403	2021	Skill development	Scientific approach, qualitative analysis
8	Industrial chemistry I	CHEM3505	2021	Skill development, entrepreneurship	Modern approach about qualitative and quantitative analysis
9	Environmental and green chemistry	CHEM3506	2021	Skill development	Env. awareness, economical friendly
10	Agriculture chemistry	CHEM3506	2021	Skill development, entrepreneurship	Enhance the quality of agricultural yield
11	Physical chemistry practical I	CHEM3507	2021	Skill development	Instrumental knowledge
12	Inorganic chemistry practical I	CHEM3508	2021	Skill development	Instrumental knowledge
13	Organic chemistry practical	CHEM3509	2021	Skill development	Scientific approach
14	Organic chemistry II	CHEM3603	2021	Skill development	Natural products, instrumental knowledge
15	Analytical chemistry	CHEM3604	2021	Skill development	Instrumental knowledge
16	Industrial	Chem3605	2021	Skill	Scientific approach, quantitative





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	chemistry			development	study
17	Environmental and green chemistry	CHEM3606	2021	Skill development	Awareness, economical friendly, scientific approach
18	Physical chemistry practical	CHEM3607	2021	Skill development	Instrumental knowledge
19	Inorganic chemistry practical	CHEM3608	2021	Skill development	Quantitative chemical analysis
20	Organic chemistry practical	CHEM3609	2021	Skill development	Qualitative analysis
21	Physical methods in inorganic chemistry	CHI 5303	2021	Skill development	Instrument knowledge
22	Bioinorganic and inorganic medicinal chemistry	CHI 5304	2021	Instrument Knowledge	Study of drug, Awareness of health, R&D
23	Analysis, Estimation and computer application	CHI 5305	2021	Skill development	Instrument Knowledge
24	Inorganic preparation & instrumental Analysis	CHI 5306	2021	Skill development	Instrument Knowledge
25	Material science II: Nanomaterials	CHI5403	2021	Skill development	Chemical approach to nanomaterials
26	Inorganic applications in industrial and environmental chemistry	CHI 5404	2021	Entrepreneurship skill development	Environment Awareness





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27	Extended practical in inorganic chemistry	CHI 5405	2021	Skill development	Scientific approach
28	Project work	CHI 5406	2021	Skill development	Research interest
29	Spectroscopic methods in structure determination	CHO5302	2021	Skill development	Instrument knowledge
30	Single stage preparation	CHO 5305	2021	Skill development	Scientific approach
31	Double and multiple stage preparation	CHO 5306	2021	Skill development	Scientific approach
32	Chemistry of natural products I	CHO5401	2021	Skill development	Study of natural product
33	Biomolecules, org. chemistry of drug design and chiral drugs	CHO 5403	2021	Skill development	Study of drug design and synthesis
34	Innovative experiments in organic chemistry	CHO 5405	2021	Skill development	Scientific approach, Economical friendly
35	Project work	CHO 5406	2021	Skill development	Research interest
36	Analytical method development & validation nanotechnology	CHA5301	2021	Skill development	Method development & validation
37	Electrochemical methods and food analysis	CHA 5302	2021	Entrepreneurship Skill Development	Qualitative Analysis
38	Pharmaceutical	CHA 5303	2021	Entrepreneurship Skill	Research and development,





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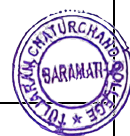
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	analysis			Development	Awareness of health
39	Analytical spectroscopy	CHA 5304	2021	Skill development	Instrument Knowledge
40	Analysis of materials	CHA 5305	2021	Skill development	Scientific approach
41	Instrumental Analysis	CHA 5306	2021	Skill development	Instrument knowledge
42	Forensic science	CHA5401	2021	Skill development	Forensic investigation
43	Advances in Analytical techniques	CHA5402	2021	Skill development	Instrument knowledge
44	Analytical methods for analysis of fertilizers, detergents, water, polymer, paint and pigment	CHA5403	2021	Skill development	Scientific Approach, Qualitative Analysis
45	Analysis of pharmaceutical, food and bioanalytical samples	CHA 5405	2021	Skill development	Instrument Knowledge
46	Project work	CHA 5406	2021	Skill development	Research interest
47	Safety in chemical laboratory & Good Laboratory practices	PSCH114	2022	Skill development	Awareness, Precautions, Importance of safety and handling
48	Physical Chemistry Practical	PSCH115	2022	Skill development	Instrumental Knowledge
49	Organic Chemistry	PSCH116	2022	Skill	Scientific Approach





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	Practical			development	
50	Physical Chemistry II	PSCH121	2022	Skill development	Scientific approach, Instrument knowledge
51	Inorganic Chemistry practical	PSCH125	2022	Skill development	Instrument knowledge, Qualitative Analysis
52	Analytical Chemistry Practical	PSCH126	2022	Skill development	Instrument Knowledge

## Statistics

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1	Statistical Techniques- I	STAT2301	2020-21	Skill Development	Index Number and Time Series
2	Statistics Practical-I	STAT2303	2020-21	Skill Development	Application of Index Number and Time Series
3	Statistical Techniques- II	STAT2401	2020-21	Skill Development	SPC, Queuing theory and R-Software
4	Sampling Distributions and Testing of Hypothesis	STAT2402	2020-21	Skill Development	Testing of hypothesis
5	Statistics Practical-II	STAT2403	2020-21	Skill Development	R-Software
6	Sampling Methods	STAT3503	2021-22	Entrepreneurship and employability	Sampling techniques
7	Design of Experiments	STAT3504	2021-22	Entrepreneurship	Design of Experiments
8	Introduction to Regression analysis	STAT3601	2021-22	Skill Development, entrepreneurship	Exploratory data analysis and all regression models
9	Statistical Quality	STAT3603	2021-22	Entrepreneurship,	Process control







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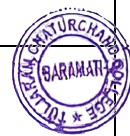
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	Control and Reliability			employability	
10	Project	STAT3609	2021-22	Skill Development ,entrepreneurship. employability	Statistical Data Analysis
11	Business Statistics-I Business Statistics-II Business Statistics-V Business Statistics-VI	COMBS230 6(D) COMBS240 6(D) COMB3605 (D) COMBS360 6(D)	2020-21	Skill Development and employability	Diagrammatic and Graphical representation, computation of descriptive statistics
12	Business Statistics-I Business Statistics-II Business Statistics-V Business Statistics-VI	COMBS230 6(D) COMBS240 6(D) COMB3605 (D) COMBS360 6(D)	2020-21	employability	Testing of Hypothesis and Decision Theory
13	Sampling Theory	PSST114	2022-23	Entrepreneurship and employability	Sampling techniques
14	Multivariate Analysis	PSST123	2022-23	Skill Development	Multivariate data analysis
15	Regression Analysis	PSST124	2022-23	Skill Development	Classification and Regression Techniques
16	Design and Analysis of Experiments	STAT-5302	2020-21	Entrepreneurship	Design of Experiments
17	Time Series Analysis	STAT-5303	2020-21	Entrepreneurship and employability	Time Series Models





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18	Data Mining	STAT-5304 (A)	2020-21	Skill Development	Machine Learning Techniques
19	Project	STAT-5406	2020-21	Skill Development , entrepreneurship And employability	Analysis of Data using Statistical Techniques

## Physics

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1	Renewable Energy Resources	CC037	2022-2023	Skill development	Energy Audit
2	Mechanics and Properties of Matter	USPH111	2022-2023	employability/skill development	Properties of matter
3	Electromagnetic s	USPH112	2022-2023	employability/skill development	Laws of electricity and magnetism
4	Practical-I	USPH113	2022-2023	employability/skill development	Practical skills
5	Heat and Thermodynamic s	USPH121	2022-2023	employability/skill development	Thermal properties
6	Physics Principles and Applications	USPH122	2022-2023	employability/skill development	General physics principles and applications
7	Practical-II	USPH123	2022-2023	employability/skill development	Practical skills
8	Electronics-I	PHY2301 (A)	2019-2020	employability/skill development	Electronic circuits
9	Instrumentation	PHY2301(B)	2019-2020	employability/skill development	Principles of instruments





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2019 - 2024

10	Thermal Physics	PHY2302	2019-2020	employability/skill development	Thermal properties of materials
11	Practical-I	PHY2303	2019-2020	employability/skill development	Practical skills
12	Mathematical Methods in Physics -I	PHY 2401	2019-2020	employability/skill development	Mathematical theory of physical properties
13	Elements of Modern Physics	PHY2402	2019-2020	employability/skill development	General physics principles and applications
14	Practical-II	PHY2403	2019-2020	employability/skill development	Practical skills
15	Advanced Optics	PHY3503	2019-2020	employability/skill development	Principles of optics in various instruments
16	Solid State Physics	PHY3504	2019-2020	employability/skill development	Properties of solid state
17	Atomic and Molecular Physics	PHY3505	2019-2020	employability/skill development	Basic theory of atoms and molecules
18	Elements of Material Science	PHY3506	2019-2020	employability/skill development	Basics of Materials properties
19	Practical I	PHY3507	2019-2020	employability/skill development	Practical skills
20	Practical II	PHY3508	2019-2020	employability/skill development	Practical skills
21	Project I	PHY3509	2019-2020	employability/skill development	Practical skills
22	Classical Electrodynamics	PHY3601	2019-2020	employability/skill development	Wave theory
23	Quantum Mechanics	PHY3602	2019-2020	employability/skill development	Advanced theory of physics
24	Statistical Physics	PHY3603	2019-2020	employability/skill development	Statistical properties
25	Nuclear Physics	PHY3604	2019-2020	employability/skill development	Nuclear properties





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26	Electronics II	PHY3605 (A)	2019-2020	employability/skill development	Electronic circuit design
27	Advanced Electronics	PHY3605 (B)	2019-2020	employability/skill development	Advanced Electronic circuit design
28	Physics of Nanomaterials	PHY 3606	2019-2020	employability/skill development	Physics behind nanomaterials
29	Practical III	PHY 3607	2019-2020	employability/skill development	Practical skills
30	Practical IV	PHY 3608	2019-2020	employability/skill development	Practical skills
31	Project II	PHY 3609	2019-2020	employability/skill development	Practical skills
32	Mathematical Methods in Physics	PSPH 111	2022-2023	employability/skill development	Mathematical theory of Physics
33	Classical Mechanics	PSPH 112	2022-2023	employability/skill development	Classical theories of physics
34	Quantum Mechanics-I	PSPH 113	2022-2023	employability/skill development	Quantum mechanical explanation of properties matter
35	Electronics	PSPH 114	2022-2023	employability/skill development	Advanced Electronic circuit design
36	Electronics Laboratory-I	PSPH 115	2022-2023	employability/skill development	Practical skills
37	Basic Physics Laboratory-I	PSPH 116	2022-2023	employability/skill development	Practical skills
38	Physics of Semiconductor Devices	PSPH 121	2022-2023	employability/skill development	Basic knowledge of semiconductors
39	Atoms, Molecules & Laser	PSPH 122	2022-2023	employability/skill development	Theory of Atoms, Molecules & Laser
40	Quantum Mechanics-II	PSPH 123	2022-2023	employability/skill development	Quantum mechanical explanation of properties





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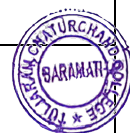
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2019 - 2024

					matter
41	Electrodynamics	PSPH 124	2022-2023	employability/skill development	Electromagnetic properties of matter
42	Electronics Laboratory-II	PSPH 125	2022-2023	employability/skill development	Practical skills
43	Basic Physics Laboratory-II	PSPH 126	2022-2023	employability/skill development	Practical skills
44	Statistical Physics	PHY5301	2019-2020	employability/skill development	Statistical properties of matter
45	Solid State Physics	PHY5302	2019-2020	employability/skill development	Study of solid state structures
46	Physics of thin films-I	PHY5303	2019-2020	employability/skill development	Thin film phenomena
47	Electronic Instrumentation-I	PHY5304	2019-2020	employability/skill development	Knowledge of instruments
48	Special Lab-I	PHY5305	2019-2020	employability/skill development	Practical skills
49	Project-I	PHY5306	2019-2020	employability/skill development	Practical skills
50	Nuclear & Particle Physics	PHY5401	2019-2020	employability/skill development	Theory of particles
51	Material Science	PHY5402	2019-2020	employability/skill development	Study of properties of materials
52	Physics of thin films-II	PHY5403	2019-2020	employability/skill development	Thin film phenomena-methods of deposition
53	Electronic Instrumentation-II	PHY5404	2019-2020	employability/skill development	Instrumentation
54	Special Lab-II	PHY5405	2019-2020	employability/skill development	Practical skills
55	Project-II	PHY5406	2019-2020	employability/skill development	Practical skills





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## Mathematics

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1	Operations Research	MAT 3505	2021	Skill Development	Linear Programming Model, Transportation Model, Assignment Model
2	Optimization Techniques	MAT 3605	2021	Skill Development	Network Analysis, Game Theory, Sequencing Problems, Replacement and Maintenance Model
3	Project	MAT 3609	2021	Skill Development, Entrepreneurship and Employability	Data collection and analysis
4	Practical: Programming in C	MAT 4106	2019	Skill Development and Employability	C Programming
5	Practical: Programming in C++	MAT 4206	2019	Skill Development and Employability	C++ Programming
6	Practical: Python Programming	MAT 5306	2020	Skill Development and Employability	Python Programming
7	Project	MAT 5406	2020	Skill Development, Entrepreneurship and Employability	Analysis of Data using Statistical Techniques
8	Practical: Programming in C	PSMT 116	2022	Skill Development and Employability	C Programming
9	Practical: Programming in C++	PSMT 126	2022	Skill Development and Employability	C++ Programming
10	Practical: Python Programming	PSMT 236	2023	Skill Development and Employability	Python Programming





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11	Project	PSMT 246	2023	Skill Development, Entrepreneurship and Employability	Analysis of Data using Statistical Techniques
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## Zoology

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1	Applied Zoology-I	ZOO2302	2020	Employability and entrepreneurship	1. Fishery. 2. Agricultural pests and their control. 3. Dairy Science
2	Applied Zoology-II	ZOO2402	2020	Employability and entrepreneurship	1. Apiculture. 2. Sericulture.
3	Zoology Practical-VIII	ZOO3607	2021	Skill Development.	1. Microscopy. 2. Chromatography. 3. Haematology. 4. Microtomy.
4	Skills in Scientific Communication and Writing & Biostatistics	ZOO:4104	2019	Skill Development.	1. Research paper writing. 2. Biostatistics.
5	Zoology Practical- IV	ZOO:4206	2019	Skill Development.	1. Thin Layer Chromatography. 2. Electrophoresis. 3. PCR.
6	Economic Zoology	ZOO:5304	2020	Employability and entrepreneurship	1. Apiculture. 2. Sericulture. 3. Piggery. 4. Dairy. 5. Wool Industry.





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## Microbiology

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1	Agricultural And Environmental Microbiology	MICRO3606	June 2021	Skill developmentetc	UNIT 1. Plant growth improvement with respect to: a. Disease resistance b. Environmental tolerance
2	Fermentation Technology-I	MICRO3505	June 2021	Entrepreneurship	Unit 3: Sterilization of Medium a. Methods of industrial sterilization b. Batch sterilization and Continuous sterilization
3	Fermentation Technology-II	MICRO3605	June 2021	Entrepreneurship	Unit 1: Uses of following secondary metabolites and their large scale production (with respect to microbial producers, production process & recovery, and flowsheet): a. Ethanol b. Alcoholic beverages (Beer & Wine) c. Antibiotics (Penicillin & Streptomycin)
4	Food And Dairy Microbiology	MICRO3506	June 2021	Skill developmentetc	Preservation of milk by pasteurization and its storage: • Methods of Pasteurization – LTH, HTST, UHT • Storage specifications after pasteurization • Phosphatase test and its significance.







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## Environmental Science

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1.	Fundamentals of Environmental Science	USES 111	2022	skill development	Nature Conservation: Conservation Aspect
2.	Fundamentals of Environmental Biology	USES112	2022	skill development	Nature Conservation: Conservation Aspect of Ecology
3.	Natural Resources	EVS 2301	2019	employability/entrepreneurship	Natural Conservation: Resource Minimum Resource Utilization
4.	Environmental Pollution and Control-I	EVS 2302	2019	employability	Innovative measures of pollution remediation
5.	Solid and Hazardous Waste Management	EVS 2401	2019	employability	Innovative measures of pollution remediation
6.	Environmental Pollution and Control-II	EVS2402	2019	employability	Innovative measures of pollution remediation
7.	Ecosystem management	EVS3501	2021	employability/entrepreneurship	Aspect of GIS
8.	Wildlife Biology	EVS3502	2021	Employability/ skill development	Acquire knowledge of wild life management techniques
9.	Geoscience	EVS3503	2021	Employability/ skill development/ entrepreneurship	Physico-chemical properties of soil and water, Conservation Strategies





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10.	Nature Conservation	EVS3504	2021	employability/entrepreneurship/skill development	Nature Conservation: Conservation Aspect
11.	Environmental Governance, Law and Ethics	EVS3505	2021	skill development	Get knowledge of acts and ethics to conserve environment
12.	Environmental Biotechnology	EVS3506	2021	employability/entrepreneurship	Vermicomposting, Energy production, Aspects of Genetically modified organisms
13.	Climate Change	EVS3601	2021	employability/entrepreneurship	Mitigation approaches in climate change, basics of Environment protection
14.	Analytical Methods	EVS3602	2021	Employability/ skill development/ entrepreneurship	Instrument handling techniques
15.	Sustainable Development	EVS3603	2021	Employability/ skill development/ entrepreneurship	Management and strategies, green building, sustainable use of resources
16.	Environmental Statistics	EVS3604	2021	Employability/ skill development/ entrepreneurship	Data collection, analysis, Statistical approaches, Statistical Models in environmental Science
17.	Environmental Safety and Risk Management	EVS3605	2021	Skill development	Safety measures, Hazard Identification and Risk Management
18.	Environmental Economics and Audit	EVS3606	2021	Employability/ skill development/ entrepreneurship	Economical aspect of Environment and Environmental Audit procedure





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## Electronics

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1.	Electronics Practical's	USEL 113	2022	skill development	Study of components and instruments
2.	Electronics Practical's	USEL123	2022	skill development	Basic electronics circuits
3.	Digital Circuit Design	USEL232	2022	skill development	Circuit Designing
4.	Electronic Practical's	USEL233	2022	skill development	Circuit Designing
5.	Advanced Digital System Design using Verilog	ELE3501	2021	Employability and skill development	Verilog Programming
6.	8051 Microcontroller	ELE3502	2021	Employability and skill development	Embedded C Programming
7.	Fundamentals of 'C' Programming	ELE3505	2021	Employability and skill development	C Programming
8.	Practical Course I	ELE3507	2021	employability/entrepreneurship/skill development	Hardware circuit designing
9.	Practical Course II	ELE3508	2021	Employability and skill development	Programming
10.	Practical Course III (Project)	ELE3509	2021	Employability and skill development	Verilog language
11.	Embedded Systems and Programming	ELE3602	2021	Employability and skill development	Programming
12.	Mathematical Methods and Circuit Simulation using MATLAB	ELE3605	2021	Employability and skill development	MATLAB software and Programming





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13.	Industrial Automation	ELE3606	2021	Employability and skill development	Industrial automation
14.	Practical Course I	ELE3607	2021	employability/ entrepreneurship/skill development	Hardware circuit designing
15.	Practical Course II	ELE3608	2021	Employability and skill development	Programming
16.	Practical Course III (Project)	ELE3609	2021	employability/entrepreneurship/skill development	Designing and Programming
17.	Advanced 'C' & JAVA Programming.	PSEL114	2022	Employability and skill development	'C' & JAVA language
18.	Electronics Science Practical Course I	PSEL115	2022	employability/entrepreneurship/skill development	Hardware circuit designing
19.	Electronics Science Practical Course II	PSEL116	2022	Employability and entrepreneurship/skill development	
20.	Embedded System Design with PIC microcontroller	PSEL123	2022	Employability and skill development	Programming
21.	Electronics Science Practical Course III	PSEL125	2022	employability/entrepreneurship/skill development	Hardware circuit designing
22.	Electronics Science Practical Course IV	PSEL126	2022	Employability and skill development	programming
23.	Advanced Embedded Systems	PSEL232	2023	Employability and skill development	Programming
24.	Programmable Logic Controllers and Supervisory Control & Data	PSEL234	2023	Employability and skill development	Industrial Automation, PLC







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	Acquisition				
25.	Practical Course -V	PSEL235	2023	employability/entrepreneurship/skill development	Hardware circuit designing
26.	Practical Course -VI	PSEL236	2023	Employability and skill development	programming



## Computer Science

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1	Computer Network-I	CSCO3503	2019-2020	Employability	Wired and Wireless LAN
2	Web Development-I	CSCO3504	2019-2020	Employability, development	Skill Arrays, Introduction to Object Oriented Programming, Databases
3	Advanced Java Programming	CSCO3505	2019-2020	Employability, development	Skill User interface components with AWT and Swing, Database programming, Servlet, JSP
4	Object Oriented Software Engineering	CSCO3506	2019-2020	Employability, development	Skill Basic structural modeling, Advanced structural modeling, Basic behavioral modeling, Architectural modeling
5	Advanced Operating System Concepts	CSCO3601	2019-2020	Skill development	Real time operating system and Mobile OS
6	Compiler Construction	CSCO3602	2019-2020	Skill development	Memory allocation & Code optimization
7	Computer Network-II	CSCO3603	2019-2020	Skill development	Cryptography and Network Security



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8	Web Development-II	CSCO3604	2019-2020	Employability, development	Skill	JSON with PHP, AJAX, Intermediate JavaScript
9	Advanced Java Technologies – Frameworks	CSCO3605	2019-2020	Employability, development	Skill	JSON, React, Spring Boot, Hibernate, Struts 2
10	Software Metrics and Project Management	CSCO3606	2019-2020	Employability, development	Skill	Overview of project management components, Software evaluation and costing, Software estimation techniques, Risk management, Introduction to software project metrics
11	Basic Programming using C, Advanced Programming using C	UCSCO11 & UCSCO121	2022-2023	Skill development		All chapters
12	DBMS-I, DBMS-II	UCSCO112 & UCSCO122	2022-2023	Skill development		E-R Model, RDBMS, SQL
13	Database Technologies	PSCS113	2022-2023	Employability, development	Skill	NoSQL, ORDBMS, MongoDB
14	DotNet Framework and C#	PSCS115	2022-2023	Employability, development	Skill	Windows Programming, Database operations, Entity framework, LINQ
15	Emerging Technologies: Python programming	PSCS123	2022-2023	Employability, development	Skill	Functions, Modules, Exception, File Handling, Classes and Threads
16	DotNet (Advanced): ASP.NET Core using MVC	PSSCS124	2022-2023	Employability, development	Skill	ASP.NET MVC - database, ASP.NET MVC-Web API, ASP.NET Core routing





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**Cycle IV**

**2019 - 2024**

# Faculty of Commerce

## Commerce

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1	UCFA111	Financial Accounting I	2022	Skill Development, Entrepreneurship Development	Accounting Standards
2	UCED111B	Entrepreneurship Development I	2022	Entrepreneurship Development, Skill Development	Introduction To Entrepreneurship
3	UCCP111A	Consumer Protection and Business Ethics I	2022	Skill Development	Introduction to Consumer Protection Act 1986
4	UCMS111A	Marketing And Salesmanship I	2022	Skill Development, Entrepreneurship Development, Employability	Functions of Marketing
5	UCFA121	Financial Accounting II	2022	Skill Development, Entrepreneurship Development	Computerized Accounting Environment
6	UCED121B	Entrepreneurship Development II	2022	Entrepreneurship Development, Skill Development	Importance of Entrepreneurship
7	UCCP121A	Consumer Protection and Business Ethics II	2022	Skill Development	Voluntary Consumer Organizations (VCO) and Consumer Protection
8	UCMS121A	Marketing And Salesmanship II	2022	Skill Development, Entrepreneurship Development, Employability	Buyer Behaviour and Market Segmentation
9	PCCO111	Management Accounting	2022	Skill Development,	Financial Statement Analysis





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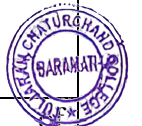
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				Employability	
10	PCCO112	Strategic Management	2022	Skill Development, Entrepreneurship Development, Employability	Strategic Planning
11	PCCO113	Advance Accounting	2022	Skill Development, Employability	Holding Companies
12	PCCO114	Income Tax	2022	Skill Development, Entrepreneurship Development, Employability	Assessment of Companies
13	PCCO121	Financial Analysis and Control	2022	Skill Development, Employability	Capital Budgeting Decision
14	PCCO122	Industrial Economics	2022	Skill Development, Employability	Industrial Location
15	PCCO123	Specialised Areas in Accounting	2022	Skill Development, Employability	Service Sector Accounting
16	PCCO124	Business Tax Assessment and Planning	2022	Skill Development, Entrepreneurship Development, Employability	Assessment of Cooperative Society's
17	PGDTL111	General Law Affecting Taxation	2022	Employability, Entrepreneurship	Indian Constitution and Legislative Provisions
18	PGDTL112	Income Tax	2022	Entrepreneurship	Computation of Taxable Income of Individuals
19	PGDTL113	Goods & Services Tax	2022	Skill Development, Employability	Provisions of Goods and Services Tax
20	PGDTL114	Custom Act	2022	Skill Development, Employability	Appeals
21	PGDTL115	Business Accounting Practices	2022	Skill Development, Employability	Preparation Financial Statements







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## BBA (CA)

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1	UBCA111	Logic in Computer Science	2022	skill development	Propositional Logic, Predicate Logic,
2	UBCA112	Data Structure using C	2022	skill development, employability skill	Searching, Sorting, Looping, Function, Linked list
3	UBCA113	Relational Database Management System	2022	skill development, employability skill	SQL, DDL,DML commands
4	UBCA114	Business Communication	2022	skill development	Media of Communication, Oral Communication
5	UBCA115	Principles and Practices of Management and Organizational Behaviour	2022	skill development	Leadership, Decision Making Environment
6	UBCA116	Computer Laboratory I [Based on UBCA112]	2022	skill development, employability skill	String, Function, Linked List Stack, Queue
7	UBCA117	Computer Laboratory II [Based on UBCA113]	2022	skill development, employability skill	DDL,DML Command, Stored Procedures ,Stored Functions, Cursor, Trigger
8	UBCA121	Object Oriented Programming using C++	2022	skill development, employability skill	Concepts of OOP, Inheritance, Classes and Objects, Working with files





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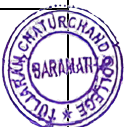
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9	UBCA122	Web Technology (HTML5, CSS3, JavaScript, jQuery)	2022	skill development, employability skill	HTML5,CSS3, JavaScript
10	UBCA123	Software Engineering	2022	skill development, employability skill	Analysis and Design Tools, Software Models, Testing & Maintenance
11	UBCA124	Technical Report Writing	2022	skill development, employability skill	Structure and Layout, Planning and Preparation, Technical Communication, Report Writing
12	UBCA125	Digital Marketing	2022	skill development, employability skill	Search Engine Optimization, Social Media Marketing
13	UBCA126	Computer Laboratory I [Based on UBCA121]	2022	skill development, employability skill	Inheritance, Function Overloading, file handling
14	UBCA127	Computer Laboratory II [Based on UBCA122]	2022	skill development, employability skill	HTML5,CSS3, JavaScript
15	UBCA231	Java Programming	2022	skill development, employability skill	Introduction to JAVA, Applet, AWT and Swing Programming
16	UBCA232A	Elective: PHP	2022	skill development, employability skill	Functions, Objects and Errors, MySQL Database
	UBCA232B	Node JS	2022	skill development, employability skill	Working in REPL, Events
17	UBCA233	Python Programming	2022	skill development, employability skill	Modules, Function





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18	UBCA234	Operating System Concepts	2022	skill development	Introduction to Operating System, Memory Management, Basics of Linux, Scheduling Algorithms
19	UBCA235	Business Statistics using R Programming	2022	skill development, employability skill	Probability and Probability distributions, Programming in R
20	UBCA236	Computer Laboratory II [Based on UBCA231 & UBCA233]	2022	skill development, employability skill	Modules, Function, Applet, AWT and Swing Programming
21	UBCA237	Computer Laboratory II [Based on UBCA232 & UBCA235]	2022	skill development, employability skill	Functions, Objects and Errors, MySQL Database, Probability and Probability distributions,
22	UBCA241	Advanced Java Programming	2022	skill development, employability skill	JDBC, JSP. Servlet, Networking
23	UBCA242A	Elective: Advanced PHP	2022	skill development, employability skill	XML, Ajax with PHP, Web Services
	UBCA242B	React JS	2022	skill development, employability skill	React JS Component, Routing in React JS
24	UBCA243	Mathematical Foundation for Computer Applications	2022	skill development	Vectors, Matrices, Sets
25	UBCA244	Software Testing and Automation	2022	skill development, employability skill	Software Testing, Junit (TestNG)
26	UBCA245	Networking	2022	skill development	Topologies, Network Types, TCP/IP Model, Transmission Media, IP Address



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					and Routing
27	UBCA246	Computer Laboratory I [Based on & UBCA241 & UBCA 244]	2022	skill development, employability skill	JDBC, JSP. Servlet, Junit (TestNG)
28	UBCA247	Computer Laboratory II [Based on & UBCA242 & UBCA 245]	2022	skill development, employability skill	XML, Ajax with PHP, IP Address and Routing
29	UBCA248	Project	2022	skill development, employability skill	Software Development

## BBA

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1	Professional communication skill	UBBA112	2021-2022	employability	Oral Communication
2	Personality Development	BBA2301	2022-2023	employability	Personality development self development, self introduction, Self esteem, self appraisal, manners & etiquettes
3	Entrepreneurship Development	BBA3502	2021-22	Entrepreneurship	Qualities of Entrepreneurship
4	Business Accounting	BBA1103	2019-20	employability	Tally
5	Principles of marketing	BBA1202	2019-20	Entrepreneurship	Marketing skill







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## B. Voc. (Dairy Technology)

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1	Dairy Development	UBDT - 111	April, 2022	Entrepreneurship Development	NPCBB, IDDP, NDDB etc.
2	Dairy Farm Management	UBDT - 112	April, 2022	Entrepreneurship Development	Clean Milk Production etc.
3	Dairy Chemistry	UBDT - 113	April, 2022	Analytical Skills	Composition of milk, Factors affecting composition of Milk
4	Dairy Farm Management	UBDT - 111 - 1	April, 2022	Analytical Skills	Detection of Adulteration in milk
5	Dairy Chemistry	UBDT - 111 - 2	April, 2022	Analytical Skills	Sampling, Platform tests
6	Soft Skill Development	UBDT - 111 - 3	April, 2022	Personality Development Skills	Greetings, GD, Interview
7	Food Technology	UBDT - 121	September, 2022	Technical skills	Food Preservation by Irradiation, High and low Temp.
8	Market Milk	UBDT - 122	September, 2022	Technical skills	Categories and Manufacture of Market milk
9	Microbiology of Milk and Milk Products	UBDT - 123	September, 2022	Analytical skills	Identification and classification of micro-organisms
10	Food Technology	UBDT - 121 - 1	September, 2022	Application skills	Food Preservation Techniques
11	Microbiology of Milk and Milk Products	UBDT - 121 - 2	September, 2022	Analytical Skills	Gram staining, Isolation, Identification methods
12	Computer Application	UBDT - 121 - 3	September, 2022	Computation skills	MS Word, MS PowerPoint etc.
13	Dairy Processing	BDT - 301	May, 2021	Technical skills	Principle, working of Dairy Equipment



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	Equipment				
14	Fermented Milk Products	BDT - 302	May, 2021	Technical skills	Fermentor
15	Nutrition Science	BDT - 303	May, 2021	Management Skill	Health, Balanced Diet, Nutritional assessment
16	Dairy Processing Equipment	BDT - 3.1	May, 2021	Mechanical skills	Working of Dairy Equipment
17	Fermented Milk Products	BDT - 3.2	May, 2021	Entrepreneurial Skill	Manufacture of Cheese
18	Nutrition Science	BDT - 3.3	May, 2021	Computation skills	Diet planning
19	Dairy Engineering	BDT - 401	May, 2021	Engineering skills	Air conditioning, AC / DC current
20	Traditional Indian Dairy Products	BDT - 402	May, 2021	Entrepreneurial Skill	
21	Food Safety, Hygiene and Sanitation	BDT - 403	May, 2021	Management skills	GMP, GHP
22	Dairy Engineering	BDT - 4.1	May, 2021	Managerial skills	Plant layout
23	Traditional Indian Dairy Products	BDT - 4.2	May, 2021	Entrepreneurial skills	Preparation of Gulabjamun etc. Products
24	Food Safety, Hygiene and Sanitation	BDT - 4.3	May, 2021	Professional Skills	FSSAI, HACCP, ISO etc.
25	Quality Assurance and Waste Management	BDT - 501	May, 2021	Analytical skills	Sensory analysis of milk products
26	Fat Rich Milk Products	BDT - 502	May, 2021	Manufacturing skills	Processing of cream, butter
27	Dairy Plant Management	BDT - 503	May, 2021	Management skills	Production Management



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28	Quality Assurance and Waste Management	BDT – 5.1	May, 2021	Analytical skills	BOD, COD
29	Fat Rich Milk Products	BDT – 5.2	May, 2021	Mechanical skill	Cream separation methods
30	Project	BDT – 5.3	May, 2021	Research skills	
31	Dairy Product Development	BDT - 601	May, 2021	Technical Skills	Defects in condensed milks
32	Packaging Technology	BDT - 602	May, 2021	Technological skills	CAP, MAP, FFS, Aseptic Packaging
33	Entrepreneurship Development	BDT - 603	May, 2021	Entrepreneurial skills	Qualities, Traits, Penalties of an Entrepreneur
34	Dairy Product Development	BDT – 6.1	May, 2021	Waste management skills	Whey Drink
35	Packaging Technology	BDT – 6.2	May, 2021	Mechanical skills	Tensile strength, Bursting strength of Packaging Material
36	In – Plant Training	BDT – 6.3	May, 2021	Professional Ethics, Professional Development	Training in Purchase, RMRD, Production, Quality Dept. of Dairy Industry



## B. Voc. (Mass Communication and Journalism)

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1.	Introduction to Journalism	JMC-102-MJM	2023	Skill development	Understanding News
2.	Basics of Photography	JMC-103-MJM	2023	Skill development	Functions of Camera, Photo Exercise, Photo Composition
3.	Mobile Photography	JMC-117-OE	2023	Entrepreneurship skill development	Photography for Photo stories

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4.	Computer Application for Media	JMC-121-VSC	2023	Entrepreneurship skill development	Basic of website designing
5.	Anchoring	JMC-126-SEC	2023	Employability Entrepreneurship, skill development	Practices of Anchoring, Exercises for Anchoring
6.	Writing for Media	MS-503-MJM	2023	Employability Entrepreneurship, skill development	Story Writing, Various Types of Media Writing
7.	Photography and Photo editing	MS-505-MJM	2023	Employability Entrepreneurship, skill development	Photography for Photo stories
8.	Video Camera Techniques	MS-512(A)-MJE	2023	Employability Entrepreneurship, skill development	Composition, Recording Audio in camcorder, Shooting Exercise
9.	Advanced News Reporting and Editing practices	MS-512(B)-MJE	2023	Employability Entrepreneurship, skill development	Photojournalism, Writing across media, News Reporting
10	News Reporting and Editing-II	UBJM231	2022	Employability Entrepreneurship, skill development	Reporting, Interviewing, Layout Design and Photojournalism
11	Writing for Media II	UBJM232	2022	Employability Entrepreneurship, skill development	Writing for Non-Fiction Genres
12	Reporting and Editing Skills	UMJM234	2022	Employability Entrepreneurship, skill development	News Reporting, Specialized Writing, Layout and design, Translation







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13	Radio Production	UBJM235	2022	Employability Entrepreneurship, skill development	Radio Program production Interviews, Radio Talk, Discussions, Review Programmers, Advertisements
14	Direction	PMMS 231A	2022	Employability Entrepreneurship, skill development	Directing Single Camera and Multi Camera
15	Sound and Post Production	PMMS 232A	2022	skill development	Location Recording Sound Editing, Advanced Post Production,
16	Video Editing	PMMS 235A	2022	Employability Entrepreneurship, skill development	Video Editing, Special treatment in editing, Packaging of the Video
17	Lighting Techniques	PMMS 236A	2022	Employability Entrepreneurship, skill development	Understanding and Handling the Lighting, Lighting in Studio Equipments, Shooting
18	Audio Production	PMMS 235B	2022	Employability Entrepreneurship, skill development	Sound Production, Production for Radio Program, Production of Podcast, Advertising production
19	Digital Content Development I	PMMS236 B	2022	Employability Entrepreneurship, skill development	Content Development for News portal, Content creation for YouTube
20	Content development for digital media	JM 504	2021	Employability Entrepreneurship, skill development	Writing for Digital Media, creative writing





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21	Video production project	JM 505	2021	Employability Entrepreneurship, skill development	Production of Audio visual Content
22	ADVERTISING PRACTICES	JM604	2019	Employability Entrepreneurship, skill development	Creation of Advertisement, Advertising Campaign design
23	RESEARCH PROJECT	JM 605	2019	Employability Entrepreneurship, skill development	Research Process

## B. Voc. (Food Processing)

Sr. No.	Course Title	Course Code	Year of syllabus revision	Focus	Relevant topic from the syllabus which focuses the skills.
1	Soft Skill Development	UBFP-111-3	2022-2023	Personality development Interview and Group discussion Writing and comprehension skills Situational dialogues Fluency in Grammar Usage	Introducing yourself, Letter (Formal) and Email, articles, editorials Making an abstract, Review writing
2	Entrepreneurship Development	FP-5.2	2021-22	Creativeness and innovativeness, Visit report, self-employment, project, analysis Case	Need of self-employment, Anticipate importance of entrepreneurship development, New product development, Develop market survey, District Industries Centre, case study
3	Project	FP-5.3	2021-22	Design and development of innovative food product	Quality evaluation, packaging, labeling and shelf life testing of product





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4	Internship	FP-6.3	2021-22	In-plant training in food industry	Study of techniques in food industry
5	Fundamentals in Bio-Statistics	UBFP-231-3	2022-23	Knowledge in Data analysis, Excel, Designing software	Representation of statistical data using MS-Excel, the methods of sampling, Representation of statistical data, data set by using hypothesis tests.



  
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