

LIST OF COURSES RELATED TO LOCAL, REGIONAL, NATIONAL AND GLOBAL NEEDS

S. No.	PROGRAM NAME	COURSE CODE	COURSE NAME	NATIONAL/REGIONAL/LOCAL/GLOBAL	RELEVANCE
1	BCA	BCA-C101	Fundamental of Information Technology	LOCAL	This course focuses on learning basic building block of computer system, enhance skills of office management and get employed to meet need of local vendor, offices, industries.
2	BCA	BCA-C301	Database Management Systems	LOCAL	This course aims on the learning designing database solution for software development and students can serve IT industries.
3	BCA	BCA-C302	Web Technologies	LOCAL	The aim of this course to build web development skills in students by learning various techniques. By doing this course, student can be get placed in IT industries.
4	BCA	BCA-C404	Programming in JAVA	LOCAL	This course curriculum enhance the programming skills, problem solving skills, which are the need of software development industry.
5	BCA	BCA-C401	Operating System and Linux	LOCAL	The goal of this course is to enhance skill of handling, troubleshooting and maintaining operating system. By this course student gains the skills to manage server and serve local industries.
6	BCA	BCA-E502(DE1)	Advance Web Technologies	LOCAL	The aim of this course to build advance web development skills in students by integrating various web technologies. By doing this course, student can be get placed in IT industries.
7	BCA	BCA-E506	Advance Java	LOCAL	This course curriculum enhance the advance programming skills, problem solving skills, which are the need of software development industry locally and globally
8	BCA	BCA-C603	NET Framework and Technologies	LOCAL	The objective of this course is to create software development skills among students. Student learn to build software solutions and serve local IT industries
9	B.Sc.IT	BSIT-C101	Fundamental of Information Technology	LOCAL	This course focuses on learning basic building block of computer system, enhance skills of office management and get employed to meet need of local vendor, offices, industries.
10	B.Sc.IT	BSIT-C301	Database Management Systems	LOCAL	This course aims on the learning designing database solution for software development and students can serve IT industries.
11	B.Sc.IT	BSIT-C302	Web Technologies and PHP	LOCAL	The aim of this course to build web development skills in students by learning various techniques. By doing this course, student can be get placed in IT industries.
12	B.Sc.IT	BSIT-C402	Programming in JAVA	LOCAL	This course curriculum enhance the programming skills, problem solving skills, which are the need of software development industry.

13	B.Sc.IT	BSIT-C401	Operating System and Linux	LOCAL	The goal of this course is to enhance skill of handling, troubleshooting and maintain operating system. By this course student gains the skills to manage server and serve local industries.
14	B.Sc.IT	BSIT-E604(DE1)	Advance PHP	LOCAL	The aim of this course to build advance web development skills in students by integrating various web technologies. By doing this course ,student can be get placed in IT industries.
15	B.Sc.IT	BSIT-E604(DE2)	Advance Java	LOCAL	This course curriculum enhance the programming skills, problem solving skills, which are the need of software development industry.
16	B.Sc.IT	BSIT-C502	NET Framework and Technologies	LOCAL	The objective of this course is to create software development skills among students. Student learn to build software solutions and serve local IT industries
17	MCA	MCA-C201	Responsive Web Application	LOCAL	The aim of this course to build advance web development skills in students by integrating various web technologies. By doing this course ,student can be get placed in IT industries.
18	MCA	MCA-C102	Programming in Java	LOCAL	This course curriculum enhance the programming skills, problem solving skills, which are the need of software development industry.
19	MCA	MCA-C304	Advance Java	LOCAL	This course curriculum enhance the programming skills, problem solving skills, which are the need of software development industry.
20	MCA	MCA-C303	Advance Java Script	LOCAL	This course curriculum enhance the programming skills, problem solving skills, which are the need of software development industry.
21	MCA	MCA-C301	Application Development using .NET Technology Framework	LOCAL	The objective of this course is to create software development skills among students. Student learn to build software solutions and serve local IT industries
22	MCA	MCA-C103	Advance Database Management System	LOCAL	This course aims on the learning designing advanced database solution for software development and students can serve IT industries.
23	BHM	BHM-101	Food Production foundation-I	LOCAL	This course impart fundamental knowledge of food production among students and to familiarize the students with day to day working atmosphere of food production dept. in hotels.
24	BHM	BHM-102	Food & Beverage Service Foundation-I	LOCAL	This course impart an overview of entire food and beverage service department and to make students familiar with the working procedures and skill required in managing this department.
25	BHM	BHM-105	Environmental Science	LOCAL	This course will cover the concept of ecology and environment. It will focus on natural resources and issues of environments pollution along with social issues in environment.
26	BHM	BHM-201	Food Production Foundation-II	LOCAL	This course gives an idea to manage the entire skills and procedure of the food production. To develop certain technical skills to build up successful professionalism in the catering industry.

27	BHM	BHM-202	Food & Beverage Service Foundation-II	LOCAL	This course provide ideas to develop a thorough knowledge of all food and beverage outlets and all specialized services offered in a luxury hotel
28	BHM	BHM-203	Front Office Foundation-I	LOCAL	To make the students aware of different sections, equipment's and procedures of rooms division
29	BHM	BHM-204	Foundation Course in Accommodation -I	LOCAL	To make the students aware of different sections, equipment's and procedures of rooms division
30	BHM	BHM-301	Food Production Operations-	LOCAL	Objective of doing the Industrial Training is to learn various section and types of food production areas
31	BHM	BHM-302	Food & Beverage Service Operations-Industry Exposure-1	LOCAL	Objective of doing the Industrial Training is to learn various section and types of food production areas
32	BHM	BHM-303	Accommodation & Front Office Operations-Industry Exposure-1	LOCAL	The concept of doing the Industrial Training in room division is to learn and observe various types of rooms & sections in room division.
33	BHM	BHM-402	Food & Beverage Service Operations-II	LOCAL	To impart the in-depth fundamental knowledge and induce little professional competence in the students about Indian cuisine.
34	BHM	BHM-403	Front Office Operations-II	LOCAL	To familiarize the students with different operational aspects of Front Office department.
35	BHM	BHM-404	Accommodation Operations-II	LOCAL	To impart fundamental knowledge about various types of Linen the laundry procedure & flower decoration used in hotels.
36	BHM	BHM-502B	Food & Beverage Service Management -I	LOCAL	This course focuses on providing knowledge about Bar operations, various types and classification of equipment used in bars. It further provides knowledge about various alcoholic beverages like - Wine, Beer, and Whiskey & Rum with their manufacturing, uses and service technique to be applied.
37	BHM	BHM-502C	Accommodation & Front Office Management-I	LOCAL	To inculcate the supervisory and planning skills in the students about the housekeeping department in particular.
38	BHM	BHM-505	Disaster management	LOCAL	The present scenario of hospitality and leisure industry is greatly affected by various natural and man-made disasters. The curriculum will familiarize the learners with the core principles that need to be understood to understand the different forms of disaster and means to mitigate them.
39	BHM	BHM-602B	Food & Beverage Service Management -II	LOCAL	To impart knowledge of the wines and wines producing regions of few of the notable countries in the field of wine production.
40	BHM	BHM-602C	Accommodation & front Office Management-II	LOCAL	To familiarize the students with various aspects of interior decoration, floorings, wall coverings and yield management.

41	MBA	MBA-103	Financial and Management Accounting	LOCAL	There is a great need for uniformity in the accounting system, for financial statements to be transparent and easily comparable, and for fraud to be avoided, all of which can be aided by the implementation of accounting standards, which in turn makes financial statements more trustworthy for users.
42	MBA	MBA-105	Legal Aspects of Business	LOCAL	To familiarize the students with various Legal aspects of Business related to small scale Industries.
43	MBA	MBA-202	Marketing Management	LOCAL	The course's overarching goal is to equip students with the knowledge and skills necessary to analyse market trends, conduct market research, and create efficient marketing plans that help their companies meet their demands and increase their profits.
44	MBA	MBA-203	Human Resource Management	LOCAL	To enable the students to understand the concepts, importance and role of human resource management in the organization.
45	MBA	MBA-204	Business Environment	LOCAL	The basic objective of the course is to develop understanding and provide knowledge about business environment to the management students and to promote basic understanding on the concepts of Business Environment and to enable them to realize the impact of environment on Business.
46	MBA	MBA – 206 (E3)	Computerized Financial Accounting	LOCAL	To learn the Fundamentals of Computerized Financial Accounting and apply them in practice.
47	MBA	MBA-307-RM3	Customer Relationship Management	LOCAL	The purpose of the syllabus is to not just make the student aware of the concept and practices of CRM in modern businesses but also enable them to design suitable practices and programs for the company they would be working.
48	MBA	MBA-308-MM5	Event Management-I	LOCAL	To provide an overview of how firms use distribution intermediaries to gain a competitive advantage in local and global markets through the integration of logistics management.
49	BBA	BBA-103	Financial Accounting	LOCAL	To cater Local Industries needs in accounting and record keeping for all transactions, this course has been offered.
50	BBA	BBA-201	Marketing Management	LOCAL	This marketing course was designed to meet the specific demands of the local business community by giving them a stronger voice in the global marketplace.
51	BBA	BBA-202	Human Resource Management	LOCAL	To cater Local Industries needs in Human Resource Management like maximum utilization of manpower to enhance the productivity, this course has been offered.
52	BBA	BBA-203	Business Finance	LOCAL	The Practical course gives hands-on training in preparation of statutory reports as per Accounting Standards in India and students learn how to raise fund for the newly established concern.

53	BBA	BBA-402	Banking and Insurance	LOCAL	The course content provides an opportunity to save money in a disciplined way to fulfil the future financial needs
54	B.COM(Hons.)	BCH -102	Financial Accounting	LOCAL	To cater Local Industries needs in Financial Sector, many specialized courses like Financial Accounting, Cost Accounting, Micro Economics have been offered.
55	B.COM(Hons.)	BCH -104 (G1)	Micro Economics	LOCAL	Critically analyses basic developmental issues through a general understanding of the issues of Uttarakhand Economy.
56	B.COM(Hons.)	BCH -303	Human Resource Management	LOCAL	To enable the students to understand the concepts, importance and role of human resource management in the organization.
57	B.COM(Hons.)	BCH -501	Cost and Management Accounting	LOCAL	To cater to the Local Industry's needs to minimize their cost of production using cost reduction techniques, this course has been offered.
58	BCA	BCA-A103	Technical Communication	REGIONAL	The course focuses on Developing listening and impressive speaking skills, demonstrating professional, ethical and public-facing attributes for an entrepreneurs or executives of different cultural backgrounds and meets the regional needs.
59	BCA	BCA-C201	Data Structure Using 'C'	REGIONAL	The goal of this course to enhance the skills of determining, explicating and analysing problems using fundamental concepts of Computer Science and develop algorithms to solve the problem at regional level.
60	BCA	BCA-C102	Programming in 'C'	REGIONAL	The aim of this course is to building problem solving using C language. Student learn to apply analytical thinking and problem solving capabilities locally and regional level
61	BCA	BCA-C202	Object Oriented Programming using C++	REGIONAL	The goal of this course to enhance skills needed to identify the real-world problem and suggest the solutions to the persist problem by C++ OOPs concepts at local and regional level
62	BCA	BCA-C303	Data Warehouse and Data Mining	REGIONAL	Develop critical thinking skills to select a set of feasible techniques for domain specific data mining at local and regional level
63	BCA	BCA-C403	Computer Network	REGIONAL	This course builds the skills to determine, explicate and analyze problems using fundamental concepts of Computer Networks and suggest new ways to solve the problem at regional and local level
64	B.Sc.IT	BSIT-A105	Technical Communication	REGIONAL	The course focuses on Developing listening and impressive speaking skills, demonstrating professional, ethical and public-facing attributes for an entrepreneurs or executives of different cultural backgrounds and meets the regional needs.
65	B.Sc.IT	BSIT-C201	Data Structure Using 'C'	REGIONAL	The goal of this course to enhance the skills of determining, explicating and analysing problems using fundamental concepts of Computer Science and develop algorithms to solve the problem at regional level.

66	B.Sc.IT	BSIT-C102	Programming in 'C	REGIONAL	The aim of this course is to building problem solving using C language. Student learn to apply analytical thinking and problem solving capabilities locally and regional level
67	B.Sc.IT	BSIT-C202	Object Oriented Programming using C++	REGIONAL	The goal of this course to enhance skills needed to identify the real-world problem and suggest the solutions to the persist problem by C++ OOPs concepts at local and regional level
68	B.Sc.IT	BSIT-E605(DE2)	Data Warehouse and Data Mining	REGIONAL	Develop critical thinking skills to select a set of feasible techniques for domain specific data mining at local and regional level
69	B.Sc.IT	BSIT-C501	Data Communication & Computer Networks	REGIONAL	This course builds the skills to determine, explicate and analyze problems using fundamental concepts of Computer Networks and suggest new ways to solve the problem at regional and local level
70	MCA	MCA-C203	Data Communication and Computer Network	REGIONAL	This course builds the skills to determine, explicate and analyze problems using fundamental concepts of Computer Networks and suggest new ways to solve the problem at regional and local level
71	MCA	MCA-C204	Data Warehousing and Data Mining	REGIONAL	Develop critical thinking skills to select a set of feasible techniques for domain specific data mining at local and regional level
72	BHM	BHM-502A	Regional Cuisine of India-I	REGIONAL	At the end of the course the students will able to understand the different types of cuisines, methods of cooking, key ingredients, methods & style of preparation.
73	MBA	MBA-306-M3	Marketing Research	REGIONAL	Uttarakhand being a tourist destination, the major thrust area is Tourism Marketing. The best marketers are always curious about how they may improve their products and services and always look for new ways to reach their customers. A lot of useful data may be gleaned from conducting market research.
74	MBA	MBA – 206 (E4)	Entrepreneurship Development	REGIONAL	Imparts knowledge in various aspects of business and start-ups and their feasibility in Uttarakhand
75	MBA	MBA-306-M4	Retail Management	REGIONAL	Imparts knowledge in various aspects of Retail Businesses particularly in Uttarakhand.
76	MBA	MBA-401	Production and Operations Management	REGIONAL	Enable the students to understand the basic concepts of Production and operations in context to Uttarakhand Manufacturing Concerns.
77	MBA	MBA-404-HM1	Behavioral Science for Health Professionals	REGIONAL	Acquaint the students with the basic concepts of behavioural science in Uttarakhand for Healthcare Industry.
78	MBA	MBA-302-IT1	Database Management Systems	REGIONAL	Acquaint the students with the basic concepts of database management and to enable them the applications of DBMS.

79	BBA	BBA-103	Financial Accounting	REGIONAL	Uttarakhand being a tourist destination, to work with corporate by using knowledge of inventories, Hire purchase, leasing and Branch accounting is offered.
80	BBA	BBA-205	Environmental Studies	REGIONAL	Sense of environment and sustainability significant in the changing climate scenario. Apart from this the Environmental Sustainability, Human Development, also fall in the Vision-2030 of Uttarakhand Government.
81	BBA	BBA-404 (G1)	Entrepreneurship Development	REGIONAL	Imparts knowledge in various aspects of business and start-ups and their feasibility in Uttarakhand
82	BBA			REGIONAL	Imparts knowledge in various aspects of business and start-ups and their feasibility in Uttarakhand
83	BBA	BBA-404 (G2)	Management of Technology & Innovation	REGIONAL	Imparts knowledge in various aspects of business and start-ups and their technological innovations specially in Uttarakhand
84	BBA	BBA-504- M1	Customers Relations Management	REGIONAL	Enable the students to understand the basic concepts of marketing, the synergy between marketing and advertising, and the basic concepts of CRM.
85	BBA	BBA-504- M2	Marketing Communication and Advertising	REGIONAL	Uttarakhand is considered as tourist destination therefore to Imparts knowledge in various aspects of marketing and its applications, this course is offered
86	BBA	BBA-504- M3	Consumer Behaviour	REGIONAL	Enable the students to understand the basic concepts of consumer behaviour and role of understanding the consumer behaviour while launching a product.
87	BBA	BBA-504- M4	Fundamentals of Retailing	REGIONAL	Imparts knowledge in various aspects of Retail Businesses particularly in Uttarakhand.
88	B.COM(Hons)	BCH -302	Income-Tax Law and Practice	REGIONAL	Uttarakhand being a tourist destination, the major thrust area is Tourism& to cater Financial needs of the Tourism Industry, the course focuses on applicability of income tax rules in India.
89	B.COM(Hons)	BCH -303	Human Resource Management	REGIONAL	The course objective is to promote understanding and develop skills with respect to human resource management in an organization that has universal application across the geographical boundaries.
90	B.COM(Hons)	BCH -304	Macro Economics	REGIONAL	Topics like fiscal policy, monetary policy, FDI have all local, global and national relevance.
91	B.COM(Hons)	BCH -401	Goods and Services Tax	REGIONAL	The course is designed to fulfil the basic requirement of GST and its process for the companies.
92	B.COM(Hons)	BCH -402	Corporate Accounting	REGIONAL	The course is designed with the objective to formulate corporate accounting standards to establish a sound and robust financial reporting standards framework in India.

93	B.COM(Hons.)	BCH -403 (SE1)	Computer Applications in Business	REGIONAL	The course comprehensively covers aspects required for effective presence in the digital space for businesses like e-commerce models, digital marketing, advertising tools and MS Office application in Business.
94	B.COM(Hons.)	BCH -403 (SE2)	MS Excel Applications for Business –Lab	REGIONAL	To give students mastery of MS Office and to enhance their personal productivity through advanced features of MS Word, MS Excel & MS Power Point
95	BCA	BCA-E501(DE2)	Digital Marketing	GLOBAL	This course relevant to build skills to access a larger audience, expand their business, and increase revenue. As digital marketing expert student can perform responsibilities of establishing an internet business, conducting ad campaigns, and building content strategy at global level
96	BCA	BCA-E503(DE2)	Cloud Computing	GLOBAL	This course aims to understand and compare the various Scientific, Business and Consumer Applications of Clouds, to select best solution for the existing problem in the Industry at Global level
97	BCA	BCA-C602	Seminar	GLOBAL	The objective this course is to prepare the students to conduct systematic study in the prominent global areas.
98	BCA	BCA-C061	Project	GLOBAL	The aim of this course to build software development skills in students by leaning various programming languages and skills. Student learn to apply software building skills to build solutions for global level
99	BCA	BCA-C203	Software Engineering	GLOBAL	The aim of this course to build software development skills in students by leaning various programming languages and skills. Student learn to apply software building skills to build solutions for global level
100	B.Sc.IT	BSIT-C601	Seminar	GLOBAL	The objective this course is to prepare the students to conduct systematic study in the prominent global areas.
101	B.Sc.IT	BSIT-C602	Project	GLOBAL	The aim of this course to build software development skills in students by leaning various programming languages and skills. Student learn to apply software building skills to build solutions for global level
102	B.Sc.IT	BSIT-C403	Software Engineering	GLOBAL	The aim of this course to build software development skills in students by leaning various programming languages and skills. Student learn to apply software building skills to build solutions for global level
103	MCA	MCA-C104	Software Engineering and Project Management	GLOBAL	The aim of this course to build software development skills in students by leaning various programming languages and skills. Student learn to apply software building skills to build solutions for global level
104	MCA	MCA-C202	Functional Programming Using Python	GLOBAL	The goal of this course is to build skills of developing web based solutions , conduct research to solve real critical problems .
105	MCA	MCA-E304(DE1)	Big Data	GLOBAL	This course is designed to give you an in-depth knowledge of the big data framework using Hadoop, Big Data Platform and its use cases, With student can contribute bigdata project globally.

106	MCA	MCA-E353(DE2)	Cloud Application Development	GLOBAL	This course aims to understand and compare the various Scientific, Business and Consumer Applications of Clouds, to select best solution for the existing problem in the Industry at Global level
107	BHM	BHM-103	Introduction to Hospitality Industry	GLOBAL	This course provide Introducing about Hotel Industry & interrelated Organizations
108	BHM	BHM-205	English/MIL Communication	GLOBAL	To make the students aware of using communication skills effectively.
109	BHM	BHM-501	Foreign Language Skills-I(French)	GLOBAL	The course is aimed at developing foreign language skills in hospitality students. The student would be able to understand basic pronunciation, self introduction & vocabulary describing family in French language.
110	BHM	BHM-601	Foreign Language Skills-II (French)	GLOBAL	The course is aimed at developing foreign language skills in hospitality students. The student would be able to understand basic hotel and restaurant conversations & vocabulary describing kitchen brigade, French wines and hospitality term language.
111	BHM	BHM-702A	International (Foreign) Cuisines	GLOBAL	This course gives idea about basic preparations in the kitchen with emphasis on preparation of Chinese and Italian cuisine.
112	BHM	BHM-702B	Bakery Management	GLOBAL	This course gives idea about basic preparations in the kitchen with emphasis on preparation of breads, sweet breads and French pastries.
113	BHM	BHM-702C	Food Service Management	GLOBAL	This course keeps an emphasis on managerial functions like- planning, organising, controlling and other operational functions. Makes student understand the market trends and frequent history of food & beverage sector in India & abroad. It also describes the detailed control process and points of coordination with purchase and store departments.
114	BHM	BHM-702D	Front Office Management	GLOBAL	This course gives idea of role of front office in revenue generation, co ordination of front office with other departments, check in and checkout procedure, about revenue management and staffing required for duty.
115	BHM	BHM-702E	Accommodation Management	GLOBAL	This course gives an idea about the organisational structure of the housekeeping department and the duties and responsibility of the housekeeping staff. It also explains the different management practices for the smooth function of the department.
116	BHM	BHM-703	Human Resource Management	GLOBAL	The objective of this module is to introduce the procedures and practices being applied for the manpower training and placement, besides understanding the relation between employee and organization.
117	BHM	BHM-704	Safety, Security and Travel Documentation	GLOBAL	To increase the understanding about different forms, formats and documents required for travellers to India and abroad.

118	MBA	MBA-309-IB1	International Business	GLOBAL	To make student Globally Competent, the courses like Cross-cultural Consumer & Buying Behaviour, International Marketing Management, Legal dimension of International Business, International Business, Import Export Management, Multinational Financial Management, International Marketing Logistics etc. have been offered.
119	MBA	MBA-309-IB2	International Trade Procedure and Documentation	GLOBAL	To make student Globally Competent, the courses like Cross-cultural Consumer & Buying Behaviour, International Marketing Management, Legal dimension of International Business, International Business, Import Export Management, Multinational Financial Management, International Marketing Logistics etc. have been offered.
120	MBA	MBA-309-IB3	International Marketing Logistics	GLOBAL	To make student Globally Competent, the courses like Cross-cultural Consumer & Buying Behaviour, International Marketing Management, International Marketing Logistics etc. have been offered.
121	MBA	MBA-309-IB4	Multinational Financial Management	GLOBAL	To give insights relating to financial management applications in the realm of international business with special reference to international financial markets systems & operations of MNCs.
122	MBA	MBA-309-IB5	Import Export Management	GLOBAL	The purpose of this course is to familiarize students with the procedures and documentation relating to foreign trade operations, and to train them to handle the documentary work concerning export-import business
123	MBA	MBA-409-IB1	International Marketing Management	GLOBAL	The purpose of this course is to apprise students regarding the various international marketing concept and its frame work and strategies adopted by firms in international market.
124	MBA	MBA-409-IB2	Cross –Cultural Consumer and Buying Behaviour	GLOBAL	This course builds on the notions and frameworks in developing and understanding about the diverse nature of behavior patterns and issues related to consumer involved in multivariate values and culture systems to maintain excellence of management.
125	MBA	MBA-409-IB3	Legal Dimensions of International Business	GLOBAL	To learn about the legal frame work of international business and various laws and regulations governing international business
126	MBA	MBA-402-IT3	Foundation of E-Commerce	GLOBAL	To enhance the basic fundamentals of e-commerce so that students will able learn the ethical and security issues of e-commerce and the tools which are needed.
127	MBA	MBA-405-F1	Behavioural Finance	GLOBAL	The purpose of this course is to introduce the student to the new field of behavioral finance and to identify persistent or systematic behavioral factors that influence investment behavior.
128	MBA	MBA-405-F2	Mergers and Acquisitions	GLOBAL	To gain knowledge for the development and execution of corporate transactions particularly in capital markets like Takeovers, Acquisitions, Divestments, Initial Public Offerings and Private Equity

129	MBA	MBA-405-F3	Portfolio Management	GLOBAL	To expose the students to the concepts, tools and Techniques applicable in the field of security analysis and portfolio management
130	BBA	BBA-502	Operations and Supply Chain Management	GLOBAL	To make Students understand, apply and evaluate various concepts of Operation and Supply chain management to pursue career in operations and logistics
131	BBA	BBA-601	International Business	GLOBAL	This paper deals with a broad conceptual focus on the international business Problems, techniques and strategies necessary to incorporate the marketing concept into the framework of the world market place
132	BBA	BBA-602	Project Management	GLOBAL	To develop the skills and understanding to plan and scope projects, manage risk, budget and learn about project life cycle, contract negotiation and project closure.
133	BBA	BBA-606-F1	International Financial Management	GLOBAL	The course provides an analysis of modern theory and practice in international financial management.
134	BBA	BBA-606-F2	Management of Financial Services	GLOBAL	This course aims at familiarizing the participants with objectives, strategies, policies and practices of major financial institutions in India and various financial services.
135	BBA	BBA-606-F3	Corporate Tax Planning and Management	GLOBAL	This course aims at making students conversant with the concept of corporate tax planning, Indian tax laws and their implications for corporate management, to expose the students to real life situations involving taxation and to equip with techniques for taking tax sensitive decisions
136	BBA	BBA-606-F4	Commercial Banking	GLOBAL	To get practical exposure through the sample balance sheet, income expenditure statement and financial statement of the banks and will be able to collect the practical knowledge of the same. Also, to get to know the banking regulation terms and control measures used in banking system.
137	BBA	BBA-607-BI5	International Banking	GLOBAL	To learn how to manage foreign exchange in international banking.
138	B.COM(Hons.)	BCH -304	Macro Economics	GLOBAL	To make student Globally Competent, the courses like International Business, Advertising, Consumer affairs & Customer Care, Financial Market Institutions & Financial Services & Corporate Law, Organizational Behaviour have been offered.
139	B.COM(Hons.)	BCH -502	Principles of Marketing	GLOBAL	To understand the complexities of consumer needs and perceptions and translate them into effective Marketing Strategies.
140	B.COM(Hons.)	BCH -503	Financial Management	GLOBAL	To understand the role of banking system in promoting inclusiveness & economic development
141	B.COM(Hons.)	BCH-504-I	Financial Markets, Institutions and Financial Services	GLOBAL	To understand the role of banking system in promoting inclusiveness & economic development.

142	B.COM(Hons.)	BCH-504-II	Corporate Tax Planning	GLOBAL	To understand the rules and provisions related to corporate tax planning Globally.
143	B.COM(Hons.)	BCH -603	International Business	GLOBAL	To give insights relating to international business with special reference to international markets systems & operations of MNCs.
144	BCA	BCA-E605	Programming using Python	NATIONAL	The goal of this course is to build skills of developing web based solutions , conduct research to solve real critical problems .
145	BCA	BCA-E501(DE3)	Enterprise Resource Planning	NATIONAL	The aim of this course to understand the basic concepts of Data Warehouse, Data Mine, Business Process Reengineering, Supply Chain Management, and Decision Support System for successful ERP implementation to meet the current industry requirement
146	BCA	BCA-E503(DE1)	Mobile Computing	NATIONAL	This course is designed to provide students with the knowledge and skills in mobile computing and communications. Mobility holds the key as a platform for businesses to increase their customer base in terms of reach and awareness.
147	BCA	BCA-E501(DE1)	Cyber Security	NATIONAL	This course aims on building skills among students to analyze the cyber attack through cyber security tools and Implement cyber security solutions and use of cyber security, information assurance, and cyber/computer forensics software/tools in solving cyber security problem of nation.
148	BCA	BCA-C501	Computer Graphics and Animation	NATIONAL	This course focuses on the development skills in the field of graphics and animation through OpenGL. With these skills student can serve gaming, animation industry
149	BCA	BCA-E604	ANDROID App Development	NATIONAL	The aim of this course to enhance the development skills of student to create mobile application using UI layouts, API etc. This course also integrate with National level campaign like Digital India,
150	B.Sc.IT	BSIT-E603(DE2)	Programming using Python	NATIONAL	The goal of this course is to build skills of developing web based solutions , conduct research to solve real critical problems .
151	B.Sc.IT	BSIT-E605(DE3)	Enterprise Resource Planning	NATIONAL	The aim of this course to understand the basic concepts of Data Warehouse, Data Mine, Business Process Reengineering, Supply Chain Management, and Decision Support System for successful ERP implementation to meet the current industry requirement
152	B.Sc.IT	BSIT-E605(DE1)	Cyber Security	NATIONAL	This course aims on building skills among students to analyze the cyber attack through cyber security tools and Implement cyber security solutions and use of cyber security, information assurance, and cyber/computer forensics software/tools in solving cyber security problem of nation.

153	B.Sc.IT	BSIT-E504 (DE1)	Computer Graphics and Animation	NATIONAL	This course focuses on the development skills in the field of graphics and animation through OpenGL. With these skills student can serve gaming, animation industry
154	B.Sc.IT	BSIT-E603 (DE1)	ANDROID App Development	NATIONAL	The aim of this course to enhance the development skills of student to create mobile application using UI layouts, API etc. This course also integrate with National level campaign like Digital India,
155	MCA	MCA-E305(DE3)	Cyber Security	NATIONAL	This course aims on building skills among students to analyze the cyber attack through cyber security tools and Implement cyber security solutions and use of cyber security, information assurance, and cyber/computer forensics software/tools in solving cyber security problem of nation.
156	BHM	BHM-401	Introduction to Indian Cookery	NATIONAL	To impart the in-depth fundamental knowledge and induce little professional competence in the students about Indian cuisine.
157	BHM	BHM-405	Accounting Skills for Hospitality	NATIONAL	To familiarize the students with the fundamentals of accounting and their applicability in hotels.
158	BHM	BHM-504	Hotel Engineering & Facility Planning	NATIONAL	To give a basic knowledge of hotel engineering which may help in day to day operations
159	BHM	BHM-602A	Regional Cuisine of India-II	NATIONAL	To impart in depth knowledge and professional competence about few of the famous regional cuisines of India.
160	BHM	BHM-603	Hospitality Marketing	NATIONAL	To familiarize students with products of hotel industry, pricing of products and its various channels of distribution.
161	BHM	BHM-604	Hospitality Law	NATIONAL	This course gives idea of how law is enforced in hotel industry, what are the different types of licences required to open a hotel, legal perspectives, and law related to public safety.
162	BHM	BHM-701A	Application of Computers in Hospitality & Tourism	NATIONAL	This course gives about the basics of computers and basic software used by computers such as MS. Office, MS Excel, MS Power point. Course would also enlighten students on the use of social media and internet practices.
163	BHM	BHM-701B	Web Applications in Hospitality & Tourism	NATIONAL	This course gives idea different web application modules used in Front Office, it also identifies various measures related to data compression, and It also enlightens the students on the concept of web designing
164	MBA	MBA-104	Managerial Economics	NATIONAL	The basic objective of the course is to understand the relative importance of Managerial Economics and know that how the principles of managerial economics can aid in achievement of business objectives.
165	MBA	MBA-201	Financial Management	NATIONAL	To understand the sources of finance for determining the capital structure and its effect, to use capital budgeting techniques for new as well as existing projects

166	MBA	MBA-204	Business Environment	NATIONAL	The basic objective of the course is to develop understanding and provide knowledge about business environment to the management students and to promote basic understanding on the concepts of Business Environment.
167	MBA	MBA – 207	Business Research Methods and data Analysis	NATIONAL	To make students acquainted with the methods of conducting research in business for decision making and help them build basic competence related to data management, analysis, interpretation, and visualization through statistical tools viz. SPSS and MS-Excel.
168	MBA	MBA-305-F1	Security Analysis	NATIONAL	To expose the students to the concepts, tools and Techniques applicable in the field of Security Analysis and Portfolio Management.
169	MBA	MBA-403-H2	HR Analytics	NATIONAL	The course is intended to develop an in-depth understanding of how HR at cutting-edge companies use sophisticated data analysis to make better decisions
170	MBA	MBA-405-F3	Portfolio Management	NATIONAL	The objective of this course is to expose the students to the concepts, tools and Techniques applicable in the field of security analysis and portfolio management
171	MBA	MBA-406-M3	Digital Marketing	NATIONAL	The primary objective of this course is to study and appreciate the role and importance of Digital Marketing in today's rapidly changing business landscape. It also focuses on how digital Marketing can be effectively employed by organizations' and how its effectiveness can be measured.
172	BBA	BBA-104 (G2)	Indian Culture, Diversity and Society	NATIONAL	To discuss the role and impact of culture and its diversity on society, describe the distinctive features of Indian culture, identify the central points and uniqueness' of Indian culture and explain the points of diversity and the underlying unity in it
173	BBA	BBA-204 (G1)	Operations Research	NATIONAL	To understand about mathematical and computational modelling of real decision-making problems, solve formulated mathematical models of business problems through the application of optimization technique
174	BBA	BBA-204 (G2)	Constitution of India and Human Rights	NATIONAL	In addition, to cater Human values & Ethical needs, subjects like Indian Culture Diversity & Society, Ethics & Governance, Constitution of India have been offered.
175	BBA	BBA-205	Environmental Studies	NATIONAL	To develop inquiring minds and curiosity about science and the natural world, and to make the students aware about how to protect environment.
176	BBA	BBA-305 (SE1)	Information Technology for Business	NATIONAL	This enables students to learn the documentation and editing using MS Word application software. Along with, the students learn data analysis, making charts, using formulas on data using MS Excel.
177	BBA	BBA-305 (SE2)	MS Excel applications for Business	NATIONAL	This course aims to apply theoretical concepts using hands-on sessions in the lab. The students learn to insert data, edit data and perform various operations on data

178	BBA	BBA-402	Banking and Insurance	NATIONAL	To familiarize with the principles and practices of banking and insurance. The evolution of banking system and methods of credit control.
179	BBA	BBA-404 (G1)	Entrepreneurship Development	NATIONAL	It refers to inculcation, development and polishing of entrepreneurial skills into the students needed to establish and successfully run his/her enterprise.
180	BBA	BBA-404 (G2)	Management of Technology and Innovation	NATIONAL	To understand the various formalities related to technological framework and innovation management. This course will help to enhance technical knowledge required to lead organization in the present digital age.
181	BBA	BBA-402	Banking and Insurance	NATIONAL	To familiarize with the principles and practices of banking and insurance. The evolution of banking system and methods of credit control.
182	B.COM(Hons.)	BCH-305 (G1)	Ethics and Governance	NATIONAL	In addition, to cater Human values & Ethical needs, subjects like Indian Culture Diversity & Society, Ethics & Governance, Constitution of India have been offered.
183	B.COM(Hons.)	BCH -401	Goods and Service Tax	NATIONAL	To gain working knowledge of principles and provisions of GST and to make students aware about GST as a whole and the problem associated with it and to understand students about the GST aims to replace all indirect levied on goods and services by the Indian Central and State governments.
184	B.COM(Hons.)	BCH -404	Indian Economy- Performance and Policies	NATIONAL	The objective is to provide a comprehensive review of almost all-important aspects of the Indian Economy. They also convey much of the flavor of the current debate on economic issues in India, with its usual diversity of views.
185	B.COM(Hons.)	BCH -405 (G1)	Entrepreneurship	NATIONAL	It refers to inculcation, development and polishing of entrepreneurial skills into the students needed to establish and successfully run his/her enterprise.
186	B.A.LL.B (Hons.)	BA- 008	Sociology III	LOCAL/REGIONAL	Keeping in view, for the fulfilment of regional objectives of the curricula, about the Socio-economic culture of the Tribes of Uttarakhand, has incorporated in this course under the topic "Features of Tribal Economy System with special reference to the tribes of Uttarakhand". which dicusses about the kinds, Socio - economic culture and polictical participation of the tribes resides in the state like ; Jaunsari, Tharu, Bhotia, Boksa and Raji tribes, which have been kept under the Scheduled Tribes since 1967.

187	B.A.LL.B (Hons.)	BA- 009	History III	LOCAL/REGIONAL	Keeping in view, for the fulfillment of regional objectives of the curricula, to share the knowledge about the contribution of the regional armed force of Dehradun region, under the topic Advent of the British in India; Khalanga War (1814-1816); which talks about the bravery and strategy of the war techniques of the local armed forces. The Khalanga War, which is popularly known as Battle of Nalapani was the first battle of the Anglo-Nepalese War of 1814–1816, fought between the forces of the British East India Company and Nepal, then ruled by the House of Gorkha. The battle took place around the Nalapani fort, near Dehradun, which was placed under siege by the British between 31 October and 30 November 1814.
188	B.A.LL.B (Hons.) / BB.A.LL.B (Hons.) / LL.B (Hons.)	L- 106	Environment Law	LOCAL/REGIONAL	Along with Global and National objectives of the curricula , this course also fulfills the Regional and Local objectives of the course, like under the topic 'Movement relating to Environment in Uttarakhand – Chipko Movement, Tilari Kand', it imparts the knowledge about the role and contribution of the uttarakhand State as well the contibution of the local Individuals and local bodies in the environment protection.
189	B.A.LL.B (Hons.) / BB.A.LL.B (Hons.) / LL.B (Hons.)	L- 128	Law of Crimes III (Criminal Procedure Code II)	LOCAL/REGIONAL	Along with National objectives of the curricula , this course also fulfills the Regional and Local objectives of the course, like under the topic ' Functions of Police under Uttarakhand Police Act 2007, which talks about the role and functions of the Uttarakhand Police in compliance of the provisions given under the Uttarakhand Police Act 2007.
190	B.A.LL.B (Hons.) / BB.A.LL.B (Hons.) / LL.B (Hons.)	L-124	Public International Law	GLOBAL	Keeping in view, for the fulfillment of Global objectives of the curricula ,the present course has been copleately designed the international concern of the issues relating to inernational affaires like, Recognition of the State, Extradition & Asylum plicies, State Succession, Law of Sea and Air Space Law, Air Space Law, International Conventions- Paris Convention 1919 and Chicago Civil Aviation Convention 1944, International Civil Aviation Organization (ICAO), Intrusion of Air Space, Discoveries and Role of ISSRO, etc.
191	B.A.LL.B (Hons.) / BB.A.LL.B (Hons.) / LL.B (Hons.)	L-147	Intellectual Property Rights	GLOBAL	Along with the national objectives this course, it fulfills the global objectives of the curricula in the manner that its major parts focuses about the objectives, workings and enforcement guidlines relatiing to Regulations & Protection of Intellectual Property Rights worldwidw, given uder different Protocols, conventions, treaties etc, e.g Paris Convention, 1883, the Berne Convention, 1886, the WIPO Convention, 1967 and the TRIPS Agreement, 1994.

192	B.A.LL.B (Hons.) / BB.A.LL.B (Hons.) / LL.B (Hons.)	L-101	Constitutional Law I	NATIONAL	The present course is completely designed for the fulfillment of the National objectives of curricula, the Constitution of India is the basic Document of the each and every Legislature, that way the present course discuss about the complete knowledge of Central state relationship, Legislature - Constitution and Function, Parliamentary Sovereignty, Parliamentary Privileges, Collective Responsibility of Cabinet, Prime Minister and Council of Ministers; Union and State Executive - Election, Powers & Functions of President and Vice President, Governor its Powers and Position; Union, State Judiciary and Subordinate Court- Constitution & Jurisdiction, Power of Judicial Review, Independence of Judiciary etc.
193	B.A.LL.B (Hons.) / BB.A.LL.B (Hons.) / LL.B (Hons.)	L- 125	Civil Procedure Code and Limitation Act I	NATIONAL	The present course is completely dedicated to fulfill the National Objectives of the Curricula in the manner that it discuss about almost all the procedural aspects of the civil litigation like, Civil Court, hierarchy of Civil Courts, principle features of Civil Procedure Code, definitions, Res-subjudice, Res-judicata, suits of civil nature, jurisdiction, kinds of jurisdiction, objections as to jurisdiction, Place of suing, Caveat, Precept. Parties to suit, joinder of parties, framing and institution of suit, joinder of causes of action, affidavit, rules regarding affidavits, notice, representative suit, pleadings, plaint, written statement etc.
194	B.A.LL.B (Hons.) / BB.A.LL.B (Hons.) / LL.B (Hons.)	L-117	Law of Crimes I	NATIONAL	The present course is completely dedicated to fulfill the National Objectives of the Curricula in the manner that it discuss about almost all the basic concepts of crime, definitions of crime, kinds and elements of crime as well penal provisions relating to defined crime under Indian Penal Code 1860/
195	B.A.LL.B (Hons.) / BB.A.LL.B (Hons.) / LL.B (Hons.)	L- 123	Law of Crimes II (Criminal Procedure Code I	REGIONAL/LOCAL /NATIONAL	The present course is completely dedicated to fulfill the National Objectives of the Curricula in the manner that it discuss about almost all the procedural aspects of the Criminal matters like, hierarchy of Criminal Courts, definitions of offences, cognizable and non cognizable of offences, jurisdiction, kinds of jurisdiction of criminal courts, Complaint, FIR, investigation, maintenance, etc.

196	B.A.LL.B (Hons.) / BB.A.LL.B (Hons.) / LL.B (Hons.)	L-120	Law of Evidence	NATIONAL	The present course is completely designed to fulfill the National Objectives of the Curricula in the manner that it discuss about almost all the procedural aspects of the taking evidence in the court and to examine its relevancy and admissibility for judicial purposes, it discusses about the Nature, Scope and background of Law of Evidence, lex fori; Definitions - Evidence, Relevant, Fact, Fact-in-issue, Documents, May Presume, Shall Presume, Conclusive Proof, Proved, Disproved, Not Proved; Doctrine of res gestae; Evidence of Conspiracy - Relevancy of otherwise irrelevant facts- Facts to prove right or custom - Facts concerning state of mind/state of body or bodily feelings; Relevancy and admissibility of admissions, evidentiary value of admissions .etc
197	B.A.LL.B (Hons.) / BB.A.LL.B (Hons.) / LL.B (Hons.)	L-121	Banking Law	NATIONAL	Keeping in view, for the fulfillment of National objectives of the curricula ,the present course has been copleately designed to provide the National banking system and law in the country, for that puposes it included the topics like, Evolution of banking and its history in India, Role of banking institutions in the socio-economic development of the country; Structure and functions of different banking institutions- Commercial Banks, Co-operative Bank, Specialized Banking Institutions; Corporate Social responsibilities and Nationalization of Banks; Impact of Liberalization and Globalization on banking sector and disinvestment; Merging of some Nationalized Banks in 21st Century in India, Aims and objectives of the Reserve Bank of India etc,
198	B.A.LL.B (Hons.) / BB.A.LL.B (Hons.) / LL.B (Hons.)	L- 131	Land Laws including Tenure & Tenancy System	REGIONAL/ LOCAL	Keeping in view, for the fulfillment of regional objectives of the curricula, to share the knowledge about the of Panchayati raj system of the Uttarakhand State, the curricullum discusses about the Concepts of Local Self Government and its Rationale; Historical Development and Objectives of Panchayat Raj; 73rd Constitution Amendment and Relevant Amendments in the Uttarakhand Panchayat Raj Act, 2016; Gram Panchayat and Nyaya Panchayat etc.

199	LL.M	LL.M.-202	Comparative Public Laws/System of Governance	GLOBAL	The present course is completely designed for the fulfillment of the Global objectives of curricula , basically this course is a comparative study of the different legal systems of the world for the purpose of reformation in existing legal system, it focuses upon the Major Legal Systems and Traditions of Law - Major Legal Systems- Civil Law System, Common Law System; Traditions of Law- Capitalist Law, Socialist Law, 'Third World' Law; Transparency, Legal Education and Trends in Unification - Comparative Approach to Sources of Law; Comparative Law and Legal Education; Trends in Unification of World Law- Unification of Private Law, The International Law Commission, UNICITRAL, The World Trade Organization
200	B.Tech CE	TCE 504	Environmental Engineering-I	REGIONAL	This course deals with basic water requirements of an area, various demands of water, sources and quality of water. The various physical, chemical and biological properties of water are assessed and various sources of noise and air pollution are determined.
201	B.Tech CE	TCE 604	Environmental Engineering- II	REGIONAL	This course deals with various methods adopted for the treatment of water before supplying it to public use. The disposal of sewage and solid waste to proper area is assessed for sustainable use of land resources.
202	B.Tech CE	TCE 612	Ecology, Ecosystem & sustainable development.	REGIONAL	This Course deals with Principles and Concepts of flow of energy in Ecosystems for the protection of natural resources and sustainable development.
203	B.Tech CE	TCE 501	Soil Mechanics	REGIONAL	This subjects deals with the Study of various types of soils, their properties and used locally for different construction projects as an construction materials.
204	B.Tech CE	TCE 304	Building Materials & Construction	GLOBAL	Knowledge of cement , lime , Bricks ,Stones,Timber,Tiles and other buiding materials helps in developing skills required for Freelancing /Entrepreneurship.
205	B.Tech CE	TCE 402	Structure Analysis-I,	GLOBAL	Analysis of trusses, arches and cables and the application of three moment theorem help the students as well as industry to acquire necessary skills required in the field of designing of structures.
206	B.Tech CE	TCE 403	Design of Steel Structure-I	GLOBAL	Design of various steel structural elements such as tension and compression member, connections etc. helping the construction industry to acquire necessary skills required for the professional design environment. The skills acquired can also be used for entrepreneurial opportunities globally.
207	B.Tech CE	TCE 505	Concrete Technology.	GLOBAL	The different types of grades which are used at the construction site to give different strength to structures. The types of cement can be used as an entrepreneur opportunities.

208	B.Tech CE	TCE 602	Foundation Engineering	NATIONAL	Design of different types of foundation for effective and economical constructions and design of foundations on expansive soils helps professional skills required for Development of Nation.
209	B.Tech CE	TCE 603	Transportation Engineering,	NATIONAL	Planning and Design of Highway elements and study of traffic characteristics and traffic control devices to enhance their skills to get employment opportunities in the field of highway projects.
210	B.Tech CE	TCE 801	Bridge Engineering.	NATIONAL	Analysis and design of various components of bridge such as deck slab, pier, abutments etc. helping the students to acquire necessary skills required for the professional design environment.
211	B.Tech CE	TCE 610	Advanced Structure Analysis	NATIONAL	Study of influence line diagrams, different truss and their analysis are studied. Additional lab on Revit to help develop software skills required for the professional environment.
212	B.Tech CE	TCE 614	Machine Foundation	NATIONAL	Design of different types of Machine foundation for effective and economical constructions helps professional required for development of nation.
213	M.Tech CTM	MCTM 202	Construction and Contract Management	LOCAL	Identify the construction claims and problems like creation of claims. To enumerate the different type of contract documents such as drafting of clauses, development and interpretation. To judge the importance of different types of law in construction industry like labour law and other related.
214	M.Tech CTM	MCTM 104	Quality & Safety in Construction	LOCAL	Acquire the knowledge of quality control & inspection, quality assurance and total quality management.
215	M.Tech CTM	MCTM 103	Advanced Concrete Technology.	LOCAL	To learn about the processing, hydration and microstructure of cements and characterizing the engineering properties of cement-based materials and to gain specialized knowledge of the mechanical performance of and how to manage, cement-based materials.
216	M.Tech CTM	MCTM 152	Building Planning and Design lab,	GLOBAL	Develop the ability to plan and schedule the construction of a multi-storied building and gain knowledge of planning and scheduling of a construction project.
217	M.Tech CTM	MCTM 203	Modern Construction Techniques & Equipment Management	GLOBAL	To gain the knowledge and understanding of construction works and its management on the field. Analyze construction documents for planning and management of construction processes. Analyze methods, materials, and equipment used to construct projects.
218	M.Tech CTM	MCTM 101	Advanced Engineering Materials	GLOBAL	To study Ceramic materials, classification of refractory glass, glass wool, mechanical, thermal and electrical properties and fire resistance materials. In order to help the employee in global market.
219	M.Tech CTM	MCTM 121	Disaster Mitigation & Management	NATIONAL	To assess various types of Hazards and various measures adopted to manage and mitigate those hazards.

220	M.Tech CTM	MCTM 251	Advanced Pavement Engineering Laboratory	NATIONAL	Students gain the knowledge of different types of Bitumen on the basis of penetration and viscosity grade. To perform Marshall Stability value of bituminous mix.
221	M.Tech CTM	MCTM 122	Construction Economics & Finance.	NATIONAL	Gain knowledge of various methods of analysis of financial returns such as break even analysis and cost benefit analysis and apply different methods of construction costing to evaluate construction costs.
222	M.Tech Envi.Engg.	MCEE 202	Air Quality Management,	LOCAL	Study of sources of air pollution, air quality standards, aerosol dynamics and air sampling and modeling techniques increases in the employability of the students in the area of environmental engineering.
223	M.Tech Envi.Engg.	MCEE 201	Advanced Water and Waste Water Treatment	LOCAL	Advanced design processes of waste water treatment for purification using various methods like biomembrane process provides professional skills required.
224	M.Tech Envi.Engg.	MCEE 123	Environmental Management System.	LOCAL	Understanding the role of environmental management system and their skills. So that Engineers can manage the resources.
225	M.Tech Envi.Engg.	MCEE 126	Remote Sensing and GIS Application in Environmental Engineering	GLOBAL	Students can analyze, map and use various types of data used in GIS which in turns helps in solving the problems related to its application
226	M.Tech Envi.Engg.	MCEE 103	Solid and Hazardous Waste management,	GLOBAL	Study of solid waste generation, its processes, and management develops skills required for solid and hazardous waste management practices.
227	M.Tech Envi.Engg.	MCEE 124	Environmental Legislation & Policy	NATIONAL	Understanding the role of environmental legislation and policies, national and international standards for the environmental quality and the ethical aspects of environmental conservation helps preparing the student for the professional environment and increases the employability.
228	M.Tech Envi.Engg.	MCEE 125	River Engineering	NATIONAL	Study of energy and momentum principles of Open channel and River Hydrology develops hydrological and professional skills for management of rivers water.
229	M.Tech Envi.Engg.	MCEE 127	Environmental Pollution.	NATIONAL	Study of various types of pollution such as air, water and land pollution helps in preparing the students for the professional environment and open employability in the smart city and other environmental related projects.
230	BTech CSE	TCS-513	Big Data Analytics	GLOBAL	Computer engineers can operate in a variety of departments in IT organisations, including design, development, assembly, manufacture, and maintenance, where big data analytics is critical. Finding creative solutions within the parameters of safety, dependability, and efficiency necessitates a great deal of imagination.

231	BTech CSE	TCS-504	Computer Networks	GLOBAL	Engineers globally can contribute to the development of affordable and appropriate automation in technology using tools for developing countries, for communications through computer networks digital security, healthcare systems to poor communities
232	BTech CSE	TCS-605	Data Warehouse and Data Mining	GLOBAL	Engineers may play a key part in delivering sustainable solutions to difficult social, economic, and environmental challenges through data warehouse and mining. This demands a varied range of engineering abilities to work with communities and clients.
233	BTech CSE	TCS-506	software engineering	REGIONAL	Software engineering is important because specific software is needed in almost every industry, in every business, and for every function. It becomes more important as time goes on – if something breaks within your application portfolio, a quick, efficient, and effective fix needs to happen as soon as possible.
234	BTech CSE	TCS-604	computer graphics	REGIONAL	The importance of computer graphics lies in its applications. The capacity to immediately visualise newly created forms is critical in technical applications (such as automotive and aerospace). Designers used to make pricey prototypes and time-consuming clay models before the arrival of computer graphics. Designers may now use a computer to view and edit models of their shapes in real time.
235	BTech CSE	TCS-602	compiler design	REGIONAL	Develop critical thinking skills to select a set of feasible techniques for domain specific designing at regional level
236	BTech CSE	TCS-313	big data technology	REGIONAL	The healthcare sector will be able to track all of our vital signs and anticipate any medical issues that may arise. In fact, one of the industries that can benefit the most from big data analytics is healthcare.
237	BTech CSE	TOEC-802	mobile ad-hoc network	LOCAL	Computer science is appraised and confront by humans every day. It's facilitating new ways to work, with remote connections to workplaces with the assistance of cloud computing
238	BTech CSE	TCS-314	cloud computing	LOCAL	Today's cloud is a widely used global technology that shifts local network content to network centric content, where significant amounts of data processing are performed on massive computing farms and accessed via the internet.
239	BTech CSE	TCS-315	IOT	LOCAL	Computers have made our life easier in these decades. Computer engineering gives the society many critical utilities with the help of IOT , wireless communication .The computer engineers have impact on public welfare & security , as well as on health and healthcare , the environment , quality of life , transportation , the food supply , computing & leisure ,for example computer engineers were integral in the development of PCs, workstations, and supercomputers

240	BTech CSE	TOEC-702	wireless communication	LOCAL	In recent decades, computers have made our lives easier. With the help of IoT and wireless connectivity, computer engineering provides society with a number of important services. The computer engineers have impact on public welfare & security, as well as on health and healthcare, the environment, quality of life, transportation, the food supply, computing & leisure, for example computer engineers were integral in the development of PCs, workstations, and supercomputers
241	MTech CSE	MCCS-202	advance database systems	REGIONAL	Engineers have tended to focus on the development of new technologies rather than the social setting regional domains like municipal bureaucracies, school systems, and homes in which that technology like advance database systems, cloud computing become acceptable if it is to be successful
242	MTech CSE	MCCS-301	cloud computing	REGIONAL	computer science. Computer science is appraised and confront by humans every day. It's facilitating new ways to work, with remote connections to workplaces with the assistance of cloud computing
243	MTech CSE	MCCS-201	Internet of things	LOCAL	Computers have made our life easier in these decades. Computer engineering gives the society many critical utilities with the help of IOT, wireless communication. The computer engineers have impact on public welfare & security, as well as on health and healthcare, the environment, quality of life, transportation, the food supply, computing & leisure, for example computer engineers were integral in the development of PCs, workstations, and supercomputers
244	MTech CSE	MCCS-205	cyber security	LOCAL	CSE Engineering turns science and technology into something tangible and useful to society. It is applied in creating various structures, home appliances and other infrastructures and equipment by using Internet of things, wireless communication devices, cyber security etc which make human lives safe and convenient.
245	B.TECH ME	TME-701	CAD/CAM	GLOBAL	Computer-aided manufacturing (CAM) also known as Computer-aided Modeling or Computer-aided Machining is the use of software to control machine tools and related ones in the manufacturing of work pieces. Globally, CAD/CAM applications are used to both design a product and programme manufacturing processes, specifically, CNC machining. CAM software uses the models and assemblies created in CAD software to generate toolpaths that drive machine tools to turn designs into physical parts, moreover students are encouraged to undertake co-operative internships during their courses in reputed institutions and organizations in India and abroad.

246	B.TECH ME	TME-081	Solar Technology	GLOBAL	On the global scenario many countries have invested in solar energy to decrease their carbon footprint and their effects on global climate change. Solar energy is a cleaner option than fossil fuels to produce electricity and reduces green house gas emissions. Their government favors solar energy to encourage low-carbon emitting technology to promote sustainable development and conservation. The environment is a global concern causing many countries to include solar power in their energy policies. These programs offered with provision for lateral and vertical progression in the curriculum helps students to learn at their own pace.
247	B.TECH ME	TME-402	Manufacturing Processes	REGIONAL	The role of manufacturing in regional growth from both an empirical and theoretical viewpoint it discusses the importance of manufacturing's share of output, concluding that in output terms, and prior to 1979, manufacturing has not been displaced by services in shares of total output. Secondly, the theoretical importance of manufacturing to the growth of regional output, showing that for most theories (demand-side, growth-pole, cumulative causation) manufacturing is the natural base for growth potential. It has helped in modernising agriculture by manufacturing tractors, tools and machines used in agriculture sector. It has reduced employment pressure on agriculture. It has brought in much needed foreign exchange.
248	B.TECH ME	TME-301	Fluid mechanics	REGIONAL	Fluid mechanics is the branch of physics concerned with the mechanics of fluids (liquids, gases, and plasmas) and the forces on them. It has applications in a wide range of disciplines, including mechanical, civil, chemical and biomedical engineering, geophysics, oceanography, meteorology, astrophysics, and biology. A number of environmental, geotechnical and structural engineering problems are intimately linked to fluid mechanics as well. Consider, for example, the synergy of fluid principles in air pollution control, water and wastewater treatment, groundwater management and control, and the construction of dams and bridges.

249	B.TECH ME	TME-801	Automobile Engioneering	REGIONAL	<p>Automotive engineering is a branch of applied science, which deals with designing, developing, and manufacturing ground vehicles. Vehicle development is an interdisciplinary optimization problem subject to many design criterions, which are often conflict with each other. In the development of a new vehicle, major design criterions are def0ined due to fuel consumption, vehicle safety, crashworthiness, durability, ride comfort, handling behaviors, ergonomics, aerodynamics and NVH concepts.The automobile industry is one of the most important drivers of economic growth of India and one with high participation in global value chains. The growth of this sector has been on the back of strong government support which has helped it carve a unique path among the manufacturing sectors of India. The automobiles produced in the country uniquely cater to the demands of low- and middle-income groups of population which makes this sector stand out among the other automobile-producing countries. The roles of government policy, infrastructure, and other enabling factors in the expansion of the automobile and automotive component sectors of India. In 2017, India became the world's fourth largest automobile market, and the demand for Indian vehicles continues to grow in the domestic and international markets.</p>
250	B.TECH ME	TME-602	Fluid Machinery	LOCAL	<p>The field of fluid machinery is a significant area of application of fluid mechanics and thermodynamics. Fluid energy machines are the most important group of machines. This field plays a fundamental role in the training of future engineers. Knowing about the function, setup, properties, and operation of fluid machinery is an essential part of the technical training. The field of machinery in general and the field of systems engineering in particular requires – in addition to general fluid mechanics practical training advanced softwares are also needed on fluid machinery.</p>

251	B.TECH ME	TOME-701	Renewable Energy	LOCAL	The sources of energy which are exhaustible and being produced continuously in nature are called renewable sources of energy. Some of these sources include solar energy, wind energy and tidal energy. The conventional energy sources are basically based on fossil fuels which have finite reserves in nature and hence would extinct in future. Since the development and progress of mankind are closely related to energy sources, many countries throughout the world have engaged themselves in searching and developing non-conventional energy sources that would be very essential to sustain the life cycle of human being. In India, there is great scope for the development of non-conventional and renewable energy sectors. India is the only country that has an exclusive Ministry for New and Non-Conventional Energy Sources. India possesses the largest decentralized solar energy programme, the second largest biogas and improved stove programmes, and the fifth largest wind power programme in the world.
252	M.TECH TE	MTTE-003	Gas Turbine & Compressors	GLOBAL	The Gas Turbines are used to generate electricity. Today, gas turbines are one of the most widely-used power generating technologies. It is the production of hot gas during fuel combustion, not the fuel itself that gives gas turbines the name. Gas turbines can utilize a variety of fuels, including natural gas, fuel oils, and synthetic fuels. Combustion occurs continuously in gas turbines, as opposed to reciprocating IC engines, in which combustion occurs intermittently.
253	M.TECH TE	MTTE-102	Advanced Thermodynamics	REGIONAL	It introduces the basic concepts of thermodynamics and applies them to a wide range of technologies. include a detailed study of combustion to show how the chemical energy in a fuel is converted into thermal energy and emissions; analyze fuel cells to give an understanding of the direct conversion of chemical energy to electrical power.
254	M.TECH TE	MTTE-103	Advanced Heat & Mass Transfer	LOCAL	Heat transfer has had a profound impact on the birth and development of sustainable energy systems. Heat and mass transfer plays a vital role not only in thermal energy driven systems such as solar thermal, geothermal, and biomass, but also in non-thermal energy systems including fuel cells, hydrogen conversion and generation systems, and electric vehicle batteries.
255	B.Sc. (Hons.) Mathematics	TBHM-603 (1)	Industrial Mathematics	LOCAL	This course focuses on problems which come from industry and aims for solutions which are relevant to industry, including finding the most efficient (i.e., cost-effective) way to solve the problem

256	B.Sc. (Hons.) Mathematics	TBHM 503 (1)	Portfolio Optimization	NATIONAL	Focuses on to optimizes, factors such as expected return, diversification, financial risk and identifying opportunities in Indian market
257	B.Sc. (Hons.) Mathematics	TBHG 404 (1)	Non-Conventional Energy Resources	GLOBAL	The course focus is on several issues relating to renewable energies, environment, sustainable development, and global warming.
258	M.Sc. (Mathematics)	MMT 102	Operation Research-I	NATIONAL	This course focuses on problems which come from industry and aims for solutions which are relevant to industry, including finding the most efficient (i.e., cost-effective) way to solve the problem.
259	M.Sc. (Mathematics)	MMT 202	Operation Research-II	NATIONAL	This course focuses on problems which come from industry and aims for solutions which are relevant to industry, including finding the most efficient (i.e., cost-effective) way to solve the problem.
260	B.Sc (Hons.) Chemistry	VAC-C8	Natural Product: Extraction Isolation and Applications	NATIONAL	This paper provides knowledge about the isolation techniques used nationally and applications of various industrially useful natural products.
261	M.Sc (Chemistry)	MCH- 303(1)	Sugar Pulp & Starch Industry	NATIONAL	Provides knowledge and understanding of paper Industry, utilization and application of starch, sugar and fibre.
262	M.Sc (Chemistry)	MCH - 401(O-1)	Chemistry of Natural Product	LOCAL	This paper provides knowledge about the isolation techniques used nationally and applications of various industrially useful natural products.
263	M.Sc (Chemistry)	MCH- 401(IC-3)	Total Quality Management	LOCAL	Provides knowledge about concept of ISO & various standards as required in industries in the region around Dehradun
264	M.Sc (Chemistry)	MCH - 304(3)	Petroleum Chemistry & Agrochemicals	GLOBAL	This course aims to provide an understanding of petroleum refining, extraction process and uses of Petrochemicals and impacts of agrochemicals
265	M.Sc (Chemistry)	MCH- 303(2)	Nanotechnology	GLOBAL	The course provides basics of material properties, assessing different types of materials for composites with application and designing of nano materials.
266	B.Sc. (Hons.) Physics	TBHP 405	Renewable Energy and Energy Harvesting	GLOBAL	The course content enable student to learn about global issues like edging out fossil fuels and reducing greenhouse gas emissions, reduce air pollution, and expand energy access.
267	B.Sc. (Hons.) Physics	TBHP 503	Laser Physics	NATIONAL	The course content enable student to learn laser application in Medical applications, welding and Cutting, surveying, garment industry, laser nuclear fusion, communication, laser printing, CDs and optical discs, spectroscopy, heat treatment, barcode scanners, laser cooling

268	B.Sc. (Hons.) Physics	TBHP 603	Atomspheric Physics	GLOBAL	The course content enable student to learn about global issues like earth atmosphere, its composition, effect of green house gases, cyclones and tunderstorm on it. This course also enables how to to study and analysis earth atmosphere with different technologies.
269	B.Sc. (Hons.) Physics	TBHP-604	Nanomaterials and Applications	GLOBAL	The course content enable student to learn how to improve manufacturing methods, water purification systems, energy systems, nanomedicine, better food production methods, nutrition and large-scale infrastructure like auto-fabrication.
270	B.Sc. (Hons.) Physics	TBHP 604	Opto-electronics	GLOBAL	The course content enable student to learn about different optical devices and their application in optical communication for better data and vedio transmission,transmisssion and detection of different frequency for multiple uses and optical fibers. This course also enables the knowledge about photonics.
271	M.Sc. (Physics)	TMPH-304 A	Laser Physics	NATIONAL	The course content enable student to learn laser application in Medical applications, welding and Cutting, surveying, garment industry, laser nuclear fusion, communication, laser printing, CDs and optical discs, spectroscopy, heat treatment, barcode scanners, laser cooling etc.
272	M.Sc. (Physics)	TMPH-304B	Renewable Energy Sources	LOCAL	The contents of this course may enable the students to solve various local issues by learning the concepts of renewable energy sources viz. solar energy , bio mass, biogass energy, hydropower and wind energy generation and their applications.
273	M.Sc. (Physics)	TMPH-401C	Materials Science & Nanotechnology-A	GLOBAL	The course content enable student to learn how to improve manufacturing methods, water purification systems, energy systems, nanomedicine, better food production methods, nutrition and large-scale infrastructure like auto-fabrication.
274	M.Sc. (Physics)	TMPH 402 C	Materials Science & Nanotechnology-B	GLOBAL	The course content enable student to learn how to improve manufacturing methods, water purification systems, energy systems, nanomedicine, better food production methods, nutrition and large-scale infrastructure like auto-fabrication.
275	M.Sc. (Food Nutrition & Dietetics)	TMFND/PM FND-203	Public nutrition	LOCAL/NATIONAL	The subject covers survey for meal planning in Anganwadi centers, school, villages to combat with health deficiencies
276	M.Sc. (Food Technology)	TMFT/PMF T-204	Technology of cereals, pulses and oilseeds	LOCAL/NATIONAL	The subject deals with production of various popular ready to eat foods.
277	M.Sc. (Food Technology)	TBFT-302	Technology of Fruits, vegetables and plantation crops	LOCAL/NATIONAL	The subject deals with knowledge of postharvest processing of fruits and vegetables and production of value added products

278	M.Sc. (Food Technology)	TMFT/PMFT-403	Food Quality System & Management	NATIONAL/INTERNATIONAL	The subjects covers various food laws to made available safe and qualitative food to consumers
279	M.Sc. (Food Technology)	TMFT/PMFT-104	Food Enzymes & Biotechnology	INTERNATIONAL	The subject provides various modification in food products with the incorporation of study of recombinant-DNA Technology and genetic modification in crops, fruits and vegetables
280	BSc. (H) Biotechnology	TBBT-103	Biotech and human welfare	NATIONAL	The course implies utility of biotechnology and effect of same on human life.
281	BSc. (H) Biotechnology	TBBT 304	Bioethics and Biosafety	LOCAL	This course reflects the personal safety and ethical issues related to the biological study
282	BSc. (H) Biotechnology	TBBT 405	Molecular Diagnostic	GLOBAL	Applicability in health and care sector at worldwide level.
283	BSc. (H) Biotechnology	TBBT-501	Bio-process technology	GLOBAL	The course focuses on application of fermentation techniques for production of value added products
284	BSc. (H) Biotechnology	TBBT-504	Environmental Biotechnology	NATIONAL	Application biotechnological approaches and techniques in environmental conservation and monitoring.
285	BSc. (H) Biotechnology	TBBT-603	Plant Biotechnology	LOCAL	The course focuses on utilization of cultivation practices for local plant conservation.
286	BSc. (H) Microbiology	TBMC 305	Bio-fertilizer and bio-pesticides	LOCAL	Utilization of bio-fertilizers and bio-pesticides in enhancing crop productivity.
287	BSc. (H) Microbiology	TBMC 601	Food and diary microbiology	LOCAL	The course focuses on application microbes in production wide spread food and dairy products
288	MSc. (Biotechnology)	TMBT-304	Bio-entrepreneurship and bio-business management	NATIONAL	Identify the potentialand skill required for entrepreneurship development
289	MSc. (Biotechnology)	TMBT-402	Agriculture biotechnology	LOCAL	The course focuses on application of biotechnological tools and cultivation practices for local plant conservation, improvement and productivity enhancement
290	B. PHARM.	BP101T	Human Anatomy and Physiology I- Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Course explain the gross morphology, structure and functions of various organs of the human body.

291	B. PHARM.	BP102T	Pharmaceutical Analysis I – Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Carryout various volumetric and electrochemical titrations.
292	B. PHARM.	BP103T	Pharmaceutics I – Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Understand the basics of different dosage forms, pharmaceutical incompatibilities and pharmaceutical calculations
293	B. PHARM.	BP104T	Pharmaceutical Inorganic Chemistry –	NATIONAL/REGIONAL/LOCAL/GLOBAL	The sources of impurities and methods to determine the impurities in inorganic
294	B. PHARM.	BP105T	Communication skills – Theory *	NATIONAL/REGIONAL/LOCAL/GLOBAL	Communicate effectively (Verbal and Non Verbal)
295	B. PHARM.	BP106RBT	Remedial Biology/Theory ,	NATIONAL/REGIONAL/LOCAL/GLOBAL	Understand the basic components of anatomy & physiology of plant.
296	B. PHARM.	BP106 RMT	Remedial Mathematics - Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Solve the different types of problems by applying theory
297	B. PHARM.	BP107P	Human Anatomy and Physiology –Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	Various homeostatic mechanisms and their imbalances.
298	B. PHARM.	BP108P	Pharmaceutical Analysis I – Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	Carryout various volumetric and electrochemical titrations.
299	B. PHARM.	BP109P	Pharmaceutics I – Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	Dosage forms of various pharmaceutical preparations
300	B. PHARM.	BP110P	Pharmaceutical Inorganic Chemistry –Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	The sources of impurities and methods to determine the impurities in inorganic
301	B. PHARM.	BP111P	Communication skills – Practical*	NATIONAL/REGIONAL/LOCAL/GLOBAL	The knowledge of basic unit operations and their importance in day to day running of a pharmaceutical unit is emphasized to the students.
302	B. PHARM.	BP112RBP	Remedial Biology – Practical*	NATIONAL/REGIONAL/LOCAL/GLOBAL	Identify the various blood parameters for estimation.
303	B. PHARM.	BP201T	Human Anatomy and Physiology II – Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Identify the various tissues and organs of different systems of human body.
304	B. PHARM.	BP202T	Pharmaceutical Organic Chemistry I – Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Write the structure, name and the type of isomerism of the organic compound
305	B. PHARM.	BP203T	Biochemistry – Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Understand the catalytic role of enzymes, importance of enzyme inhibitors in design of new drugs, therapeutic and diagnostic applications of enzymes.
306	B. PHARM.	BP204T	Pathopgysiology	NATIONAL/REGIONAL/LOCAL/GLOBAL	Describe the etiology and pathogenesis of the selected disease states
307	B. PHARM.	BP205T	Computer Applications in Pharmacy – Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Test and examine different kinds of software for different medicines.
308	B. PHARM.	BP206T	Environmental sciences – Theory *	NATIONAL/REGIONAL/LOCAL/GLOBAL	Create the awareness about environmental problems among learners.

309	B. PHARM.	BP207P	Human Anatomy and Physiology II –Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	Perform the haematological tests like blood cell counts, haemoglobin estimation, bleeding/clotting time etc and also record blood pressure, heart rate, pulse and respiratory volume.
310	B. PHARM.	BP208P	Pharmaceutical Organic Chemistry I– Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	Identify and synthesis the organic compounds.
311	B. PHARM.	BP209P	Biochemistry – Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	Understand the catalytic role of enzymes, importance of enzyme inhibitors in design of new drugs, therapeutic and diagnostic applications of enzymes.
312	B. PHARM.	BP210P	Computer Applications in Pharmacy – Practical*	NATIONAL/REGIONAL/LOCAL/GLOBAL	Apply the web based tools for pharmacy practice.
313	B. PHARM.	BP301T	Pharmaceutical Organic Chemistry II – Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Write the structure, name and the type of isomerism of the organic compound
314	B. PHARM.	BP302T	Physical Pharmaceutics I – Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Understand various physicochemical properties of drug molecules in designing the dosage forms
315	B. PHARM.	BP303T	Pharmaceutical Microbiology – Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Understand methods of identification, cultivation and preservation of various microorganisms
316	B. PHARM.	BP304T	Pharmaceutical Engineering – Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Describe the mechanism & laws , theories and applications of unit operation in pharmaceutical manufacturing.
317	B. PHARM.	BP305P	Pharmaceutical Organic Chemistry II –Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	Study about the reactivity/stability of compounds,
318	B. PHARM.	BP306P	Physical Pharmaceutics I – Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	Understand Practical components of the subject to get a better insight into various areas of formulation research and development, and stability studies of pharmaceutical dosage forms.
319	B. PHARM.	BP307P	Pharmaceutical Microbiology – Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	Understand Practical components of the subject to get a better insight into methods of identification, cultivation and preservation of various microorganisms and the cell culture technology and its applications in pharmaceutical industries.
320	B. PHARM.	BP 308P	Pharmaceutical Engineering –Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	Basic unit operations and their importance in day to day running of a pharmaceutical unit is emphasized to the students
321	B. PHARM.	BP105TLE	Communication skills – Theory *	NATIONAL/REGIONAL/LOCAL/GLOBAL	Communicate effectively (Verbal and Non Verbal)
322	B. PHARM.	BP111PLE	Communication skills – Practical *	NATIONAL/REGIONAL/LOCAL/GLOBAL	The knowledge of basic unit operations and their importance in day to day running of a pharmaceutical unit is emphasized to the students.
323	B. PHARM.	BP401T	Pharmaceutical Organic Chemistry III– Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Methods of preparation and properties of organic compounds
324	B. PHARM.	BP402T	Medicinal Chemistry I – Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Understand the chemistry of drugs with respect to their pharmacological activity

325	B. PHARM.	BP403T	Physical Pharmaceutics II - Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Demonstrate use of physicochemical properties in the formulation development and evaluation of dosage forms.
326	B. PHARM.	BP404T	Pharmacology I - Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Appreciate correlation of pharmacology with other bio medical sciences
327	B. PHARM.	BP405T	Pharmacognosy and Phytochemistry I- Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Techniques in the cultivation and production of crude drugs
328	B. PHARM.	BP406P	Medicinal Chemistry I - Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	Understand the chemistry of drugs with respect to their pharmacological activity
329	B. PHARM.	BP407P	Physical Pharmaceutics II - Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	Assess the stability of formulations
330	B. PHARM.	BP408P	Pharmacology I - Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	Correlate the working of pharmacological equipments with the softwares/videos
331	B. PHARM.	BP409P	Pharmacognosy and Phytochemistry I - Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	Assess the different chemical tests to analyze the specific crude drugs.
332	B. PHARM.	BP205TLE	Computer Applications in Pharmacy - Theory *	NATIONAL/REGIONAL/LOCAL/GLOBAL	Test and examine different kinds of software for different medicines.
333	B. PHARM.	BP210PLE	Computer Applications in Pharmacy - Practical*	NATIONAL/REGIONAL/LOCAL/GLOBAL	Apply the web based tools for pharmacy practice.
334	B. PHARM.	BP501T	Medicinal Chemistry II - Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Understand the drug metabolic pathways, adverse effect and therapeutic value of drugs
335	B. PHARM.	BP502T	Industrial PharmacyI- Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Analyze dosage form for various quality parameters.
336	B. PHARM.	BP503T	Pharmacology II - Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Appreciate correlation of pharmacology with related medical sciences
337	B. PHARM.	BP504T	Pharmacognosy and Phytochemistry II- Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Appraise the modern methods of extraction and application of latest techniques like spectroscopy, chromatography & electrophoresis in evaluation of crude drugs.
338	B. PHARM.	BP505T	Pharmaceutical Jurisprudence - Theory	NATIONAL/REGIONAL/LOCAL/GLOBAL	Discuss code of ethics during the pharmaceutical practice
339	B. PHARM.	BP506P	Industrial Pharmacy-I - Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	The information on solid dosage forms like tablets and capsules, their formulation and quality control serves as an important prerequisite for dosage form design
340	B. PHARM.	BP507P	Pharmacology II - Practical	NATIONAL/REGIONAL/LOCAL/GLOBAL	Isolation of different organs/tissues from the laboratory animals by simulated experiments
341	B. PHARM.	BP508P	Pharmacognosy and Phytochemistry II -	NATIONAL/REGIONAL/LOCAL/GLOBAL	Estimate the various phytoconstituents by using specific separation methods

342	B. PHARM.	BP601T	Medicinal Chemistry III – Theory	NATIONAL/REGIONAL/L OCAL/GLOBAL	Estimate the various phytoconstituents by using specific separation methods
343	B. PHARM.	BP602T	Pharmacology III – Theory	NATIONAL/REGIONAL/L OCAL/GLOBAL	Comprehend the principles of toxicology and treatment of various poisoning
344	B. PHARM.	BP603T	Herbal Drug Technology – Theory	NATIONAL/REGIONAL/L OCAL/GLOBAL	Appraise various regulatory guidelines for evaluation of herbal drugs
345	B. PHARM.	BP604T	Biopharmaceutics and Pharmacokinetics –	NATIONAL/REGIONAL/L OCAL/GLOBAL	Methods to enhance the dissolution rate and bioavailability of poorly soluble drugs
346	B. PHARM.	BP605T	Pharmaceutical Biotechnology (Theory)	NATIONAL/REGIONAL/L OCAL/GLOBAL	Appreciate the use of microorganisms in fermentation technology
347	B. PHARM.	BP606T	Quality Assurance –Theory	NATIONAL/REGIONAL/L OCAL/GLOBAL	Appraise the cGMP aspects in pharmaceutical industry.
348	B. PHARM.	BP607P	Medicinal chemistry III – Practical	NATIONAL/REGIONAL/L OCAL/GLOBAL	Produce the chemical structures and reactions by using chemdraw.
349	B. PHARM.	BP608P	Pharmacology III – Practical	NATIONAL/REGIONAL/L OCAL/GLOBAL	Evaluation Drug absorption and mode of action of various drugs using software
350	B. PHARM.	BP609P	Herbal Drug Technology – Practical	NATIONAL/REGIONAL/L OCAL/GLOBAL	The phytochemical screening and standardized the extract used in herbal formulations.
351	B. PHARM.	BP701T	Instrumental Methods of Analysis – Theory	NATIONAL/REGIONAL/L OCAL/GLOBAL	Perform quantitative & qualitative analysis of drugs using various analytical instruments
352	B. PHARM.	BP702T	Industrial Pharmacy-II – Theory	NATIONAL/REGIONAL/L OCAL/GLOBAL	Concept of pilot plant, the approval process and regulatory requirement for drug products.
353	B. PHARM.	BP703T	Pharmacy Practice – Theory	NATIONAL/REGIONAL/L OCAL/GLOBAL	Identify and report ADR and drug interaction
354	B. PHARM.	BP704T	Novel Drug Delivery System – Theory	NATIONAL/REGIONAL/L OCAL/GLOBAL	Analyze the criteria for selection of drugs and polymers for development of novel drug delivery systems
355	B. PHARM.	BP705P	Instrumental Methods of Analysis – Practical	NATIONAL/REGIONAL/L OCAL/GLOBAL	The interaction of matter with electromagnetic radiations and its applications in drug analysis.
356	B. PHARM.	BP706PS	Practice School*	NATIONAL/REGIONAL/L OCAL/GLOBAL	Collection and interpretation of data obtained from medication history interview and patient counseling
357	B. PHARM.	BP801T	Biostatistics and Research Methodology	NATIONAL/REGIONAL/L OCAL/GLOBAL	Statistical analysis using Excel, SPSS, Design of Experiment, R-software to industrial and clinical trial approach.
358	B. PHARM.	BP802T	Social and Preventive Pharmacy	NATIONAL/REGIONAL/L OCAL/GLOBAL	Evaluate alternative ways of solving problems related to health and pharmaceutical issues
359	B. PHARM.	BP803ET	Pharma Marketing Management	NATIONAL/REGIONAL/L OCAL/GLOBAL	The concept of price management and the marketing channels in pharmaceutical industry
360	B. PHARM.	BP804ET	Pharmaceutical Regulatory Science	NATIONAL/REGIONAL/L OCAL/GLOBAL	Regulatory approval process and their registration in Indian and international markets

361	B. PHARM.	BP805ET	Pharmacovigilance	NATIONAL/REGIONAL/LOCAL/GLOBAL	Pharmacovigilance, ADRs detection and reporting and Regulatory terminologies
362	B. PHARM.	BP806ET	Quality Control and Standardization of Herbals	NATIONAL/REGIONAL/LOCAL/GLOBAL	Estimate ICH guidelines for quality control of herbal drugs
363	B. PHARM.	BP807ET	Computer Aided Drug Design	NATIONAL/REGIONAL/LOCAL/GLOBAL	Identify the molecular modeling and virtual screening techniques with molecular docking
364	B. PHARM.	BP808ET	Cell and Molecular Biology	NATIONAL/REGIONAL/LOCAL/GLOBAL	Analyze basic molecular genetics mechanisms and Summarize the Cell Cycle and cell signals.
365	B. PHARM.	BP809ET	Cosmetic Science	NATIONAL/REGIONAL/LOCAL/GLOBAL	Design and develop various cosmetic and cosmeceutical products
366	B. PHARM.	BP810ET	Pharmacology Screening Method	NATIONAL/REGIONAL/LOCAL/GLOBAL	Appreciate and demonstrate the various screening methods used in preclinical research
367	B. PHARM.	BP811ET	Advanced Instrumentation Techniques	NATIONAL/REGIONAL/LOCAL/GLOBAL	Understand the advanced instruments used and its applications in drug analysis
368	B. PHARM.	BP812ET	Dietary Supplements and Nutraceuticals	NATIONAL/REGIONAL/LOCAL/GLOBAL	Appreciate the regulatory and commercial aspects of dietary supplements including health claims
369	B. PHARM.	BP813PW	Project Work	NATIONAL/REGIONAL/LOCAL/GLOBAL	Develop the students in data collection, analysis and reporting and interpretation skills.
370	B. PHARM.	BP813ET	Pharma Production	NATIONAL/REGIONAL/LOCAL/GLOBAL	Introduction of regulatory authorities and government rules and regulations for manufacturing in Life Sciences industry in India and emerging markets (both regulated and semi regulated)
371	B. PHARM.	BP814ET	Quality Analytics	NATIONAL/REGIONAL/LOCAL/GLOBAL	It will benefit students and professionals who are new to industry by presenting an overview of the important concepts in a logical and natural sequence so they can begin to understand GMP regulations and begin applying them effectively. Understanding the 'why' of cGMP principles along with valuable insights and examples in every area of responsibility to enable them in their quality decision-making.
372	B. PHARM.	BP815ET	Medical Representative	NATIONAL/REGIONAL/LOCAL/GLOBAL	Course provide Basic Planning and Market information to students
373	BA	TBPS101	Introduction to Political Theory	LOCAL/ NATIONAL	This course enables the students to apply theories around the political issues surrounding them.
374	BA	TBS101	Introduction to Sociology	LOCAL/ NATIONAL	This course helps in developing sociological imagination among students
375	BA	TBAE 101	Environmental Studies	LOCAL/ NATIONAL/ REGIONAL/ GLOBAL	This course focuses finding solutions to complex environmental/ economic/ social challenge

376	BA	TBE201	Selectrions (Poems, Short Stories) from modern literature	NATIONAL/ GLOBAL	This course develops in the students the ability to demonstrate engagement with literary and critical concepts
377	BA	TBPS 201	Indian Government and Politics	LOCAL/ NATIONAL	This course enamels the understanding of the concept of Indian Constitution and various phases of Indian National Movement
378	BA	TBS 201	Sociology of India	LOCAL/ NATIONAL	This course aims at encoraging students to view the indian reality through a sociological lens
379	BA	TBCH 201	Hindi Bhasha aur Sahitya	LOCAL/ NATIONAL	This course enables the students to understand the emergence and development of Hindi literature
380	BA	TBEC 301	Principles of Microeconomics 1	NATIONAL	This course develops the ability to apply the laws of Microeconomics to the real world
381	BA	TBE 301	British Literature	GLOBAL	This course increases student's comprehension of novels, drama and poems
382	BA	TBS 301	Sociological Theories	GLOBAL	This course helps the students to apply the thinking of classical Sociologist upon the society
383	BA	TDE 501	Children's Literature	GLOBAL	This course helps the student to examine different works of children literature
384	BA	TDEC 502	Environmental Economics	GLOBAL	This course introduces the policies adopted to controll environmental pollution.
385	BA	TDPS 502	Themes in Comperative Political Theory	LOCAL/ NATIONAL/ GLOBAL	This ocurse develops the ability to apply abstract theory to concrete problems
386	BA	TBG 502	Ghandhian Philosophy	NATIONAL/ GLOBAL	This course helps the students to inculcate good value system by bringing awareness about historical events initiated by Mahatma Ghandhi
387	BA	TDEC 602	Economic History of India 1857 - 1947	NATIONAL	This course will develop a chronological understanding of the Economic History of India
388	BA	TDS 601	Social Stratification	LOCAL/ GLOBAL	This course, with the help of theories and case studies helps students to develop a keen sense of social stratification as existing in the society
389	BA (Hons) Psychology	TBHG 101	Understanding Globlization	GLOBAL	This course develops ability to examine the impact of global warming, understand philosophical and theoritical debates on globalization
390	BA (Hons) Psychology	TBHG 202	Basics of International Relation	REGIONAL/ GLOBAL	This course develops the ability to identify and geographically locate most contemporary states
391	BA (Hons) Psychology	TBHPY 201	Psychology of Individual Differences	GLOBAL	This course develops an understanding of the concept of individual differences with an aim to promote self refrection and understanding of self & others
392	BA (Hons) Psychology	TBHG 301	Gender and Society	LOCAL/ GLOBAL	This course helps the students to identify the existing gender inequality in the society
393	BA (Hons) Psychology	TDHPY 502	Cultural and Indigenous Psycology	LOCAL/ REGIOAL	This course enables the students to understand the role of culture in understanding behaviour

394	BA (Hons) Psychology	TDHPY 601	Community Psychology	LOCAL/ NATIONAL/ GLOBAL	This course helps the students to learn the link between individual and communities and deal with social issues
395	BA (Hons) English	TBHE 101	Indian Classical Literature	LOCAL/ NATIONAL	This course helps the students to understand classical literary genres and provides them the opportunity to engage with relevant scholarly works
396	BA (Hons) English	TBHE 201	Indian Writing in English	NATIONAL	This course helps students to engage with various literary and critical concepts for analysing different theoretical frameworks
397	BA (Hons) English	TBHE 301	American Literature	GLOBAL	This course introduces the student to American literature in order to analyse it along with social political and historical content
398	BA (Hons) English	TBHE 303	British Poetry and Drama: 17th to 18th Centuries	GLOBAL	This course provide an inside into 17th and 18th century British drama, comedy and epics
399	BA (Hons) English	TBHE 402	British Romantic Literature	GLOBAL	This course develops the ability in students to assess the literature written during the Romantic Literature period
400	BA (Hons) English	TBHE 403	British Literature: 19th Century	GLOBAL	This Course helps students to understand the Victorian Literature representing the Victorian society
401	BA (Hons) English	TBHE 501	Women's Writing	GLOBAL	This course develops the ability to analyse Women Writing according to socio-political and historical scenerio
402	BA (Hons) English	TDHE 502	Literature of the Indian Diaspora	NATIONAL	This course develops a global connection by understanding Indian Diasporic writers
403	BA (Hons) English	TBHE 601	Modern European Drama	GLOBAL	This course helps the students to understand the Modernism and its under currents through Modern European Drama
404	BA (Hons) English	TDHE 603	Autobiography	LOCAL/ NATIONAL/ REGIONAL/ GLOBAL	This course exposes and enlightens all possibilities of the lives of final figures that attempted to make the world a better place to live
405	MA English	TME 101	English Literature from Chaucer to Milton	GLOBAL	This course understands english as an Independent Language and Culture
406	MA English	TMEE 101	Ancient Greek and Latin Literature	GLOBAL	This course develops the ability to demonstrate the awareness of the chronology of classical literature of the west along with its origin and developments
407	MA English	TMEE 103	Literature and Gender	NATIONAL/ GLOBAL	This course develops the ability to study critically the various ideologies that established the notion and concepts of gender
408	MA English	TME 201	Shakespeare	GLOBAL	This course helps students to recognise Shakespeare's contribution in the history of English Literature
409	MA English	TMEE 201	American Literature	GLOBAL	This course helps students to understand the American Puritanism, Societal changes of Americanism
410	MA English	TMEE 203	Post Colonial Literatures and theory	NATIONAL/ GLOBAL	This course helps students to know major discourses of post colonial literature emerging from South Asia, Africa and the Caribbean
411	MA English	TME 301	Romantic Poetry	GLOBAL	This course develops the ability to understand Romantic Literature including Poetry
412	MA English	TMEE 301	Language and Linguistics	GLOBAL	This course introduces the concepts of semantics and semiotics in the world of philosophy of language

413	MA English	TMEE 304	Dalit Studies	LOCAL/ REGIONAL/ NATIONAL	This course enables interdisciplinary understanding of the fields of Dalit Studies
414	MA English	TMGE 302	Indian Society: Images and Realities	LOCAL/ NATIONAL/ REGIONAL	This course aim to introduce the students to various aspects and perception of Indian society
415	MA English	TMEE 401	Indian Literature in English	LOCAL/ NATIONAL	This course introduces students the emergence of literature in english by Indian writers
416	MA English	TMEE 403	Translation Studies	NATIONAL	This course exemplifies the storehouse of translation in the world of lierature
417	BAJMC	BAJMC 102	Indian Economy & Polity	NATIONAL/GLOBAL	The course develops ideas of the basic characteristics of Indian economy. It clears the concept of state, nation and civil society & and how government functions in India. Also it emphasises upon the international political economy.
418	BAJMC	BAJMC 201	Reporting & Editing for Print	NATIONAL	The course introduces students with the basic idea of reporting and writing for print media for the national issues. It increasres the understanding of news values and qualities required for reporters of India and hence the course is relevant for national level journalism.
419	BAJMC	BAJMC 202	History of Print & Broadcasting in India	REGIONAL/NATIONAL/GLOBAL	Media is the fourth pillar of National democracy and the course focuses on the history of its expansion in India. The course focuses on how media aided the freedom moment of India and what role it played after the independance.The course imparts knowledge regarding the prominent national & international News agencies which are really important for dissemination of news in India and worldwide. Also it tells about the growth of National Press (English & Hindi) & the emergence of regional language press.
420	BAJMC	BAJMC 301	Media & Cultural Studies	REGIONAL/NATIONAL	The course develops knowledge about media and Culture of India. It focuses on media text,types of audiences,representation of nation, class, caste and gender issues representation in Indian Media. In local & regional level the course comprises tradional and folk media for imparting an overview about the local culture of Uttarakhand and other states also. basically the course tries to explain the relationship between Indian media, Indian culture and Indian society and how all these three elements are impacting each other's existence.
421	BAJMC	BAJMC 303	Media Law Ethics and Policy	NATIONAL	The course analyzes the constitutional scope for the functions of media in India. It Recognize the nature of moral and ethical discourse in the mass media with special reference to Indian Media.The course focuses on imparting knowledge about Indian media & its ethical considerations also it tells about Indian Constitution and its elements.

422	BAJMC	BAJMC 404	Development Communication	NATIONAL/ REGIONAL	The course focuses on the concept of development and development communication in India. It talks about various developmental issues and its representation in Indian Media. It Describes media as a tool in development communication & how traditional and community journalism is done. It talks about media as tool for regional community development Content like development Journalism and rural reporting in India, rural Journalism, use of traditional media for development in rural areas, information needs in tribal setting, poverty, women empowerment of local areas, panchayati raj system focuses on regional and local development.
423	BAJMC	BAJMC 501	Global Media & Politics	GLOBAL	The course demonstrates the relation of global, international, national and intercultural problems, trends and issues. It focuses on understanding global problem solving process. Also it takes out information from various global media sources.
424	BAJMC	BAJMC 601	Intercultural Communication	REGIONAL/NATIONAL	The course helps in recognizing variations in culture and communication styles of India. It explains how different cultural values might decide and expose different behavioral patterns of society. Creates awareness on how one can adapt in intercultural interactions and gradually understand the cultural reforms of their own region.
425	MAJMC	MAJMC:102	Development of Media	REGIONAL/NATIONAL/GLOBAL	Media is the fourth pillar of National democracy and the course focuses on the history of its expansion in India. The course focuses on how media aided the freedom movement of India and what role it played after the independence. The course imparts knowledge regarding the prominent national & international News agencies which are really important for dissemination of news in India and worldwide. Also it tells about the growth of National Press (English & Hindi) & the emergence of regional language press.
426	MAJMC	MAJMC:103	Print Media (S.E)	NATIONAL	The course introduces students with the basic idea of reporting and writing for print media for the national issues. It increases the understanding of news values and qualities required for reporters of India and hence the course is relevant for national level journalism.
427	MAJMC	MAJMC:203	Media Laws and Ethics	NATIONAL	The course analyzes the constitutional scope for the functions of media in India It Recognize the nature of moral and ethical discourse in the mass media with special reference to Indian Media. The course focuses on imparting knowledge about Indian media & its ethical considerations also it tells about Indian Constitution and its elements.

428	MAJMC	MAJMC:402	Intercultural Communication	REGIONAL/NATIONAL	The course helps in recognizing variations in culture and communication styles of India. It explains how different cultural values might decide and expose different behavioral patterns of society. Creates awareness on how one can adapt in intercultural interactions and gradually understand the cultural reforms of their own region.
429	B.Sc. (Hons.) Agriculture	AHS-111	Fundamentals of Horticulture	LOCAL	Visits to commercial nurseries/orchards
430	B.Sc. (Hons.) Agriculture	ASS-111	Fundamentals of Soil Science	LOCAL	Case study of soil pollution in Uttarakhand
431	B.Sc. (Hons.) Agriculture	AGF-111	Introduction to Forestry	LOCAL	Forest cover in Uttarakhand
432	B.Sc. (Hons.) Agriculture	AGA-111	Fundamentals of Agronomy	LOCAL	Develop the ability to cultivate crops using all locally available recourses.
433	B.Sc. (Hons.) Agriculture	AEE-111	Rural Sociology & Educational Psychology	LOCAL	<ul style="list-style-type: none"> • Social stratification, social institution, cultural concept, meaning and significance of agriculture extension and social groups. • Rural society: Important characteristics, differences; Relationship between Rural and Urban societies
434	B.Sc. (Hons.) Agriculture	ARC-111	Agriculture Heritage	LOCAL	Hill agriculture
435	B.Sc. (Hons.) Agriculture	AEM-121	Fundamentals of Agricultural Economics	LOCAL	Agricultural and public finance: meaning, micro v/s macro finance, need for agricultural finance, public revenue and public expenditure
436	B.Sc. (Hons.) Agriculture	AEM-221	Agricultural Marketing Trade & Prices	LOCAL	Visit to a local market to study various marketing functions performed by different agencies
437	B.Sc. (Hons.) Agriculture	AHS-311	Landscaping	LOCAL	Landscaping of schools, public places like bus station, railway station, townships, river banks, hospitals, play grounds, airports, industries, institutions
438	B.Sc. (Hons.) Agriculture	AEE-313	Drone Technology in Agriculture	LOCAL	Visit to local crop field and demonstration of drone application

439	B.Sc. (Hons.) Agriculture	APH-211	Environmental Studies and Disaster Management	LOCAL	Biodiversity at global,National and local levels.
440	B.Sc. (Hons.) Agriculture	AGA-111	Fundamentals of Agronomy	REGIONAL	Crop management technologies in problematic areas study of agroclimatic zones
441	B.Sc. (Hons.) Agriculture	AEN-121	Fundamentals of Entomology	REGIONAL	Biotic potential and environmental resistance and causes for outbreak of pests in agro-ecosystem.
442	B.Sc. (Hons.) Agriculture	APH-211	Environmental Studies and Disaster Management	REGIONAL	Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values.
443	B.Sc. (Hons.) Agriculture	AFS-221	Food Safety and Standards	REGIONAL	Food laws and Standards- Indian Food Regulatory Regime, FSSAI. Global Scenario CAC.
444	B.Sc. (Hons.) Agriculture	AGA-223	Introductory Agro- meteorology & Climate Change	REGIONAL	Climate change, climatic variability, global warming, causes of climate change and its impact on regional
445	B.Sc. (Hons.) Agriculture	AGA-111	Fundamentals of Agronomy	NATIONAL	Acquaint with the agronomy and its scope, outlines of crops in India Develop understanding of growth and development of crops in different agro climatic zones of India.
446	B.Sc. (Hons.) Agriculture	AEE-111	Rural Sociology & Educational Psychology	NATIONAL	<ul style="list-style-type: none"> • Nature and structure of Indian Rural Society • Social Ecology: Definition, objectives, history, challenges and social ecology in Indian context
447	B.Sc. (Hons.) Agriculture	AEM-211	Agricultural Finance and Cooperation	NATIONAL	Insurance and Credit Guarantee Corporation of India.
448	B.Sc. (Hons.) Agriculture	ARC-111	Agriculture Heritage	NATIONAL	<ul style="list-style-type: none"> • Introduction of Indian agricultural heritage • Journey of Indian agriculture • Crop voyage in India and world. • National agriculture setup in India; Current scenario of Indian agriculture; Indian agricultural concerns and future prospects
449	B.Sc. (Hons.) Agriculture	AEM-121	Fundamentals of Agricultural Economics	NATIONAL	<ul style="list-style-type: none"> • National income: Meaning and importance • Agricultural planning and development in the country

450	B.Sc. (Hons.) Agriculture	APP-121	Fundamentals of Plant Pathology	NATIONAL	History of Plant Pathology with special reference to Indian work
451	B.Sc. (Hons.) Agriculture	AEN-121	Fundamentals of Entomology	NATIONAL	History of Entomology in India
452	B.Sc. (Hons.) Agriculture	AGA-211	Crop Production Technology- I (Kharif crops)	NATIONAL	Its importance in agriculture and National Economy
453	B.Sc. (Hons.) Agriculture	APH-211	Environmental Studies and Disaster Management	NATIONAL	<ul style="list-style-type: none"> • India as a mega-diversity nation.Hot-spots of biodiversity. • Biodiversity at global, National and local levels. • Climate change, climatic variability, global warming, causes of climate change and its impact on regional and national Agriculture.
454	B.Sc. (Hons.) Agriculture	AHS-312	Protected Cultivation	NATIONAL	Status of protected cultivationin Indiaand World
455	B.Sc. (Hons.) Agriculture	AFS-221	Food Safety and Standards	NATIONAL	Food laws and Standards- Indian Food Regulatory Regime, FSSA. Global Scenario CAC.
456	B.Sc. (Hons.) Agriculture	AHS-211	Production Technology for Vegetables and Spices	NATIONAL	Importance of vegetables & spices in human nutrition and national economy.
457	B.Sc. (Hons.) Agriculture	AAH-211	Livestock and Poultry Management	NATIONAL	Role of livestock in the national economy.
458	B.Sc. (Hons.) Agriculture	AHS-221	Production Technology for Ornamental Crops, MAP and Landscaping	NATIONAL	Importance of medicinal and aromatic plants in national economy, etc.
459	B.Sc. (Hons.) Agriculture	AEM-221	Agricultural Marketing Trade & Prices	NATIONAL	Agreement on Agriculture (AoA) and its implications on Indian agriculture
460	B.Sc. (Hons.) Agriculture	AGA-223	Introductory Agro-meteorology & Climate Change	NATIONAL	Climate change, climatic variability, global warming, causes of climate change and its impact on regional and national Agriculture.
461	B.Sc. (Hons.) Agriculture	AIT-311	Intellectual Property Rights	NATIONAL	Acquaint with the agronomy and its scope, outlines of crops in India Develop understanding of growth and development of crops in different agro climatic zones of India.

462	B.Sc. (Hons.) Agriculture	AEM-211	Agricultural Finance and Cooperation	GLOBAL	An introduction to higher financing institutions – RBI, NABARD, ADB, IMF, world bank
463	B.Sc. (Hons.) Agriculture	AEE-111	Rural Sociology & Educational Psychology	GLOBAL	<ul style="list-style-type: none"> • Develop understanding on the significance of culture for the society, connotation of personality in the corporate/professional world • Developing personality for the professional world
464	B.Sc. (Hons.) Agriculture	ARC-113	Introductory Biology	GLOBAL	Introduction to the living world
465	B.Sc. (Hons.) Agriculture	APH-211	Environmental Studies and Disaster Management	GLOBAL	Biodiversity at global,National and local levels.
466	B.Sc. (Hons.) Agriculture	AHS-312	Protected Cultivation	GLOBAL	Status of protected cultivation in India and World types of protected structure based on site and climate.
467	B.Sc. (Hons.) Agriculture	AIT- 211	Agri- Informatics	GLOBAL	World Wide Web (WWW): Concepts and components.
468	B.Sc. (Hons.) Agriculture	AHS-312	Protected Cultivation	GLOBAL	Status of protected cultivation in India and World
469	B.Sc. (Hons.) Agriculture	AEE-313	Drone Technology in Agriculture	GLOBAL	GPS (Global Positioning System)
470	B.Sc. (Hons.) Agriculture	AGA-311	Geo-informatics and Nano- technology and Precision Farming	GLOBAL	Image processing and interpretation; Global positioning system (GPS)
471	B.Sc. (Hons.) Agriculture	AFS-221	Food Safety and Standards	GLOBAL	Indian and International Standards for food products.
472	B.Sc. (Hons.) Agriculture	AEM-221	Agricultural Marketing Trade & Prices	GLOBAL	Trade: Concept of International Trade and its need, theories of absolute and comparative advantage. Present status and prospects of international trade in agri-commodities; GATT and WTO
473	B.Sc. (Hons.) Agriculture	AGA-223	Introductory Agro- meteorology & Climate Change	GLOBAL	Climate change, climatic variability, global warming, causes of climate change and its impact on regional and national Agriculture.

474	M. Sc. Ag. (Plant Pathology)	MSAGP-501	Mycology	LOCAL	Isolation and identification of plant pathogenic fungi from the local crop fields.
475	M. Sc. Ag. (Plant Pathology)	MSAGP-503	Principles of Plant Pathology	LOCAL	Collection of diseased plant samples from the seasonal crops cultivated in local fields
476	M. Sc. Ag. (Plant Pathology)	MSAGP-511	Seed Health Technology	LOCAL	Localization and mechanism of seed transmission in relation to seed infection
477	M. Sc. Ag. (Plant Pathology)	MSAGE-501	Pest Management in Organic Farming	LOCAL	Role of crop rotation, crop isolation, soil management, crop residue management, weed management, field localization, tillage
478	M. Sc. Ag. (Plant Pathology)	MSAGP-520	Diseases of field and medicinal crops	LOCAL	Disease of millets cultivated in Uttarakhand.
479	M. Sc. Ag. (Plant Pathology)	MSAGP-513	Mushroom Production Technology	LOCAL	Common mushrooms cultivated in Uttarakhand.
480	M. Sc. Ag. (Plant Pathology)	MSAGA-515	Principles and Practices of Weed Management	LOCAL	Common weed of Uttarakhand
481	M. Sc. Ag. (Plant Pathology)	MSAGA-519	Agrostology and Agro-Forestry	LOCAL	Types of pastures and agro-forestrysystems in Uttarakhand
482	M. Sc. Ag. (Plant Pathology)	MSAGE-501	Pest Management in Organic Farming	REGIONAL	Agro ecosystem survey analysis
483	M. Sc. Ag. (Plant Pathology)	MSAGE-512	Principles of Integrated Pest Management	REGIONAL	Characterization of agro-ecosystems
484	M. Sc. Ag. (Plant Pathology)	NCRM-501	Agricultural Research, Research Ethics and Rural Development Programmes	REGIONAL	<ul style="list-style-type: none"> • Regional Agricultural Research Institutions • Strengthening capacities at national and regional levels
485	M. Sc. Ag. (Plant Pathology)	MSAGP-520	Diseases of field and medicinal crops	REGIONAL	Disease of millets cultivated in Uttarakhand.

486	M. Sc. Ag. (Plant Pathology)	MSAGP-512	Phyto Nematology	NATIONAL	Introduction – Brief history and development of Nematology at National and International level
487	M. Sc. Ag. (Plant Pathology)	MSAGP-521	Plant Quarantine	NATIONAL	Objectives of plant quarantine, quarantine – domestic and international.
488	M. Sc. Ag. (Plant Pathology)	NCIT-501	Intellectual Property and Its Management in Agriculture	NATIONAL	National Biodiversity protection initiatives
489	M. Sc. Ag. (Plant Pathology)	NCPH-501	Disaster Management	NATIONAL	<ul style="list-style-type: none"> • Disaster Management- Efforts to mitigate natural disasters at national and global levels • National disaster management framework
490	M. Sc. Ag. (Plant Pathology)	NCRM-501	Agricultural Research, Research Ethics and Rural Development Programmes	NATIONAL	<ul style="list-style-type: none"> • National Agricultural Research Systems (NARS) • Strengthening capacities at national and regional levels
491	M. Sc. Ag. (Plant Pathology)	NCIT-501	Intellectual Property and Its Management in Agriculture	GLOBAL	International Treaty on Plant Genetic Resources for Food and Agriculture
492	M. Sc. Ag. (Plant Pathology)	NCPH-501	Disaster Management	GLOBAL	Disaster Management- Efforts to mitigate natural disasters at national and global levels. International Strategy for Disaster reduction.
493	M. Sc. Ag. (Plant Pathology)	NCRM-501	Agricultural Research, Research Ethics and Rural Development Programmes	GLOBAL	Consultative Group on International Agricultural Research (CGIAR): International Agricultural Research Centers (IARC), partnership with NARS, role as a partner in the global agricultural research system, strengthening capacities at national and regional levels; International fellowships for scientific mobility.
494	M. Sc. Ag. (Agronomy)	MSAGA-515	Principles and Practices of Weed Management	LOCAL	Common weed of Uttarakhand
495	M. Sc. Ag. (Agronomy)	MSAGA-519	Agrostology and Agro-Forestry	LOCAL	Types of pastures and agro-forestry systems in Uttarakhand
496	M. Sc. Ag. (Agronomy)	MSAGA-529	Farm Journalism	LOCAL	Feature and special article- local agricultural Magazines.
497	M. Sc. Ag. (Agronomy)	MSAGA-523	Crop Ecology, Geography and Sustainable Land use System	REGIONAL	Climate regions of India

498	M. Sc. Ag. (Agronomy)	MSAGSS-503	Fertilizer Technology	REGIONAL	Production, consumption and future projections with regard to nutrient use in the country and respective states
499	M. Sc. Ag. (Agronomy)	NCIT-501	Intellectual Property and Its Management in Agriculture	NATIONAL	National Biodiversity protection initiatives
500	M. Sc. Ag. (Agronomy)	NCPH-501	Disaster Management	NATIONAL	<ul style="list-style-type: none"> • Disaster Management- Efforts to mitigate natural disasters at national and global levels • National disaster management framework
501	M. Sc. Ag. (Agronomy)	NCRM-501	Agricultural Research, Research Ethics and Rural Development Programmes	NATIONAL	<ul style="list-style-type: none"> • National Agricultural Research Systems (NARS) • Strengthening capacities at national and regional levels
502	M. Sc. Ag. (Agronomy)	MSAGA-518	Agronomy of Medicinal, Aromatic and Under-Utilized Crops	NATIONAL	National economy and related industries
503	M. Sc. Ag. (Agronomy)	MSAGA-527	Principles and Practices of Organic Farming	NATIONAL	<ul style="list-style-type: none"> • Organic states in India • Organic farming and national economy
504	M. Sc. Ag. (Agronomy)	MSAGA-530	Agricultural Insurance and Risk Management	NATIONAL	National Agricultural Insurance Scheme
505	M. Sc. Ag. (Agronomy)	MSAGA-523	Crop Ecology, Geography and Sustainable Land use System	NATIONAL	Climate regions of India
506	M. Sc. Ag. (Agronomy)	MSAGSS-503	Fertilizer Technology	NATIONAL	Production, consumption, and future projections with regard to nutrient use in the country and respective states
507	M. Sc. Ag. (Agronomy)	NCIT-501	Intellectual Property and Its Management in Agriculture	GLOBAL	International Treaty on Plant Genetic Resources for Food and Agriculture
508	M. Sc. Ag. (Agronomy)	NCPH-501	Disaster Management	GLOBAL	Disaster Management- Efforts to mitigate natural disasters at national and global levels. International Strategy for Disaster reduction.

509	M. Sc. Ag. (Agronomy)	NCRM-501	Agricultural Research, Research Ethics and Rural Development Programmes	GLOBAL	Consultative Group on International Agricultural Research (CGIAR): International Agricultural Research Centers (IARC), partnership with NARS, role as a partner in the global agricultural research system, strengthening capacities at national and regional levels; International fellowships for scientific mobility.
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