




**Criteria I Curricular Aspects**

**1.1 Curriculum Design & Development**

**1.1.1 (QIM):** *Curricula developed and implemented have relevance to the local, regional, national and global developmental needs, which is reflected in the Programme Outcomes (POs) and Course Outcomes (COs) of the programmes offered by the Institution.*



  
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<b>B. A</b>				
<b>ECONOMICS</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BUAECO101	Economics – I (Microeconomics-I)	National	Introduction of advanced microeconomic concepts
2.	BUAECO201	Economics – II (Microeconomics-II)	National	Understanding of market operations and cost-revenue analysis
3.	BUAIA301	Investment Analysis – I	National	Study of Financial Instruments, Indian Capital Market and Securities Market Analysis
4.	BUAECO302	Economics – II (Macroeconomics-I)	Global	Study of advanced macroeconomic concepts, Keynesian and Post-Keynesian developments in Macroeconomics
5.	BUAECO303	Economics – III (Indian Economy – II)	Regional/ National	Study of Indian Economy, its demographic characteristics, and important economic indicators such as, National Income, Unemployment, Poverty and Inequality.
6.	BUAECOIA401	Investment Analysis – II	Global	Exposure to various investment theories and underpinning of the technical and fundamental analysis of securities.

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Sr.No.	Course Code	Title of Course	Focus	Description
7.	BUAECO402	Economics - II (Macroeconomics - II)	Global	Study of macroeconomic variables and impact of public policies
8.	BUAECO403	Economics - III (Indian Economy - II)	Regional/ National	Study of different sectors of Indian Economy, their growth, problems and remedial measures for improvement.
9.	BUAECO504	Economics Paper IV : Micro Economics III	National	Study of advanced concepts of microeconomics and behavior of firms under a different market structure
10.	BUAECO505	Economics Paper V : Economics of Development	Global	Critical understanding of key economic theories, essential tools and concepts of development economics.
11.	BUAECO506	Economics Paper VI : Industrial & Labour Economics	National	Study of Indian Industrial Sector, its policies, productivity, performance and locational theories.
12.	BUAECO507	Economics Paper VII : Research Methods in Economics	Local	Comprehensive study of theory and practice of doing applied research in economics, with special emphasis on primary and secondary data uses
13.	BUAECO508	Economics Paper VIII : Environmental Economics	Local/ Regional	Study of Environmental Economics to understand the global Environmental problems and Environmental awareness programs.
14.	BUAECO509	Economics Paper IX : History of Economic Thought	Global	Study of development of economic theory of Classical, Marxian Keynesian & Post Keynesian economists & Understanding their view point

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Sr.No.	Course Code	Title of Course	Focus	Description
15.	BUAECO604	Economics Paper IV : Macro Economics III	Global	Study of the macroeconomic theories of short-term fluctuations and long-term growth in the economy.
16.	BUAECO605	Economics Paper V : International Economics	Global	Study of International Trade Development theories, International Capital Flows and International Trade Blocs.
17.	BUAECO606	Economics Paper VI : Industrial & Labour Economics	National / Global	Study of Indian Labour Market, problems and disputes of labour and their settlements. Role of trade unions at national and international levels.
18.	BUAECO607	Economics Paper VII : Research Methods in Economics	Local	Study of most common research methods that enable students to acquire and review basic analytical skills.
19.	BUAECO608	Economics Paper VIII : Indian Economic Thought	National	Study of Economic history of India. Understanding the policies & ideas of Indian thinkers in the field of economics. Study of India's economic history from pre British period to current time.
20.	BUAECO609	Economics Paper IX : Money and Banking	National	To understand the role of RBI, SEBI and Monetary policy.

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<b>M.A</b>				
<b>BUSINESS ECONOMICS</b>				
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<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BPABECO101	Micro Economic Analysis I	Global	To understand the core microeconomic concepts, production and cost analysis and game theoretic framework.
2.	BPABECO102	Macro Economic Analysis - I	Global	To overview the major developments in macroeconomic theory, interrelationships among the various macro economic variables and Keynesian vs Monetarist policy formulations.
3.	BPABECO103	Indian Economic Planning & Policy - I	Regional/ National	To study the Economic Planning in India, NEP 1991, different aspects of growth and development on Indian Economy.
4.	BPABECO104	Statistics for Business Economics	National	To use the statistical techniques for business data analysis while focusing on univariate and bi-variate analysis.


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Sr.No.	Course Code	Title of Course	Focus	Description
5.	BPABECO201	Micro Economic Analysis - II	Global	Study of Microeconomic theories of a firm, of distribution, of welfare economics and capital techniques.
6.	BPABECO202	Macro Economic Analysis - II	Global	To understand the goods and money market equilibrium along with the monetary and fiscal policy measures. Economics of Recession, Depression and business cycle theories.
7.	BPABECO203	Indian Economic Planning & Policy – II	Regional/ National	To familiarize issues associated with agriculture, industry, service, and external sector and make students understand how to link various economic policies with plan objectives.
8.	BPABECO204	Mathematics for Business Economics	National	To train the students to use the techniques of mathematical analysis, which are commonly applied to understand and analyze economic problems.
9.	BPABECO301	Economics of Growth & Development - I	Global	To familiarize students with the wide-ranging policy issues and theories in growth economics, neo-classical growth models and applications

  
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Sr.No.	Course Code	Title of Course	Focus	Description
10.	BPABECO302	International Trade & Policy - I	Global	To understand the historical perspectives of India's International Trade and theories governing international trade and policies pursued by various economic bodies in international economics.
11.	BPABECO303	Public Economics - I	National	To understand the nature and working of fiscal policy and the rationale for the existence of modern governments.
12.	BPABECO304	Financial Institutions & Market – I	National	To make students familiarize with nature and role of financial system in India and Banking in India.
13.	BPABECO401	International Trade & Policy - II	Global	To study about the various international institutions, international trade relations, India's top trading partners and International Macroeconomic policy.
14.	BPABECO402	Public Economics - II	Global	To develop an understanding of various aspects of public choice theory, fiscal federalism, fiscal policy and debt management.

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Sr.No.	Course Code	Title of Course	Focus	Description
15.	BPABECO403	Financial Institutions & Markets – II	National/ Global	Develop the understanding of Financial Markets and Non Banking Financial Institutions in India and International Financial Market
16.	BPABECO404	Project Report	Local	To develop research project through primary and secondary data collection methods.

## SUMMARY OF ECONOMICS COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	08	10	03	03
PG	09	07	02	01

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**B. A****ENGLISH**

**Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) \*List out the papers that have relevance to local/national/regional/global needs**

Sr.No.	Course Code	Title of Course	Focus	Description
1.	BUAENG101	F.Y.B.A Paper-I (Opt. Eng.)	Global	Study the Basics of English Literature to acquaint with introductory part of Indian as well as the British Literature.
2.	BUAENG201	F.Y.B.A Paper-I (Opt. Eng.)	Global	Study the Basics of English Literature to acquaint with introductory part of Indian as well as the British Literature.
3.	BUAENG301	S.Y.B.A (Indian Literature in English)	Global	The Indian literature and its global relevance with English Literature.
4.	BUAENG401	S.Y.B.A (Indian Literature in English)	Global	The Indian literature and its global relevance with English Literature.
5.	BUAENG302	American Literature	Global	Study of the brief genesis of American Literature.
6.	BUAENG402	American Literature	Global	Study of the brief genesis of American Literature.
7.	BUAENG501	16 <sup>th</sup> to 18 <sup>th</sup> Century English Literature	Global	Study of the British Literary Era.
8.	BUAENG601	16 <sup>th</sup> to 18 <sup>th</sup> Century English Literature	Global	Study of the British Literary Era.

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Sr.No.	Course Code	Title of Course	Focus	Description
9.	BUAENG502	Literary Criticism	Global	Study of the Literary Theories and its application in analyzing literary texts.
10.	BUAENG602	Literary Criticism	Global	Study of the Literary Theories and its application in analyzing literary texts.
11.	BUAENG503	Grammar and the Art of Writing	Global	Study of Grammar with all the Intricacies, Discourse Writing and Analysis.
12.	BUAENG603	Grammar and the Art of Writing	Global	Study of Grammar with all the Intricacies, Discourse Writing and Analysis.
13.	BUACS101	Communication Skills of English (Core Paper)	Global	Study of basic grammar, comprehension of English and Language skills.
14.	BUACS201	Communication Skills of English (Core Paper)	Global	Study of basic grammar, comprehension of English and Language skills.
15.	BUCBC101	Business Communication	Global	To Study Language and its various channels in the commercial world.
16.	BUCBC201	Business Communication	Global	To Study Language and its various Channels in the commercial world.

## SUMMARY OF ENGLISH COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	19			

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<b>B. A</b>				
<b>GEOGRAPHY</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BUAGEO101	F.Y.B.A.- Human Geography	Global/National	To introduce the broader aspects of the Study of Human Geography
2.	BUAGEO201	F.Y.B.A.- Geography of Environment	Global/National	To stress the importance of Environmental sustainability and Human development
3.	BUAGEO301	S.Y.B.A. – Geography of Maharashtra	Regional	To acquaint student with the location, administrative and physical environment of Maharashtra.
4.	BUAGEO302	S.Y.B.A. – Agricultural Geography	Global/National	To acquaint student with the importance of agriculture in human civilization
5.	BUAGEO401	S.Y.B.A. – Geography of India	National	To acquaint student with the location, administrative and physical environment of the country.
6.	BUAGEO402	S.Y.B.A. – Geography of Tourism	Global/National	To introduce the importance of tourism and its geographical relevance
7.	BUAGEO501	T.Y.B.A.- Geography of Settlements	Global/National	To acknowledge the origin, evolution and spread of Human Settlements
8.	BUAGEO502	T.Y.B.A.- Population Geography	Global/National	To discuss the Qualitative and Quantitative aspects of Human Population

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Sr.No.	Course Code	Title of Course	Focus	Description
9.	BUAGEO503	T.Y.B.A.- Tools and Techniques in Geography for Spatial Analysis-I	Global/National	To enable students to read, understand and utilize Topographical and Thematic maps
10.	BUAGEO504	T.Y.B.A.- Regional Planning and Development	National	To introduce the concept and need of regional planning in the Socio-Economic development of India.
11.	BUAGEO505	T.Y.B.A.- Geography of Resources	Global/National	To introduce the various resources necessary for Human development.
12.	BUAGEO506	T.Y.B.A. - Geospatial Technology	Global/National	To introduce students to the latest technology used in Geography.
13.	BUAGEO601	T.Y.B.A.- Environmental Geography	Global/National	To increase awareness about environment, resources, environmental issues and protection
14.	BUAGEO602	T.Y.B.A.- Tourism and Recreation	Global/National	To introduce the importance of tourism and its geographical relevance
15.	BUAGEO603	T.Y.B.A.- Tools and Techniques in Geography for Spatial Analysis-II	Global/National	To familiarize students with traditional and contemporary techniques of surveying
16.	BUAGEO604	T.Y.B.A.- Economic Geography	Global/National	To introduce the concepts of Economic development based on spatial distribution of resources
17.	BUAGEO605	T.Y.B.A.- Biogeography	Global/National	To introduce the concept of habitat, biomes and migration of plants and animals
18.	BUAGEO606	T.Y.B.A.- Research Methodology	Global/National	To introduce students to the nuances of research in social sciences, data collection, data analysis and interpretation

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<b>GEOGRAPHY</b>				
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<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BPGE101	Semester I- Principles of Geomorphology	Global	an overview of Geomorphology, the interior of the earth, earth movements, landform development processes, and practical component based on it
2.	BPGE 102	Semester I- Principles of Climatology	Global	The course provides an overview of the climatology, insolation, temperature, air pressure and air masses
3.	BPGE 103	Semester I- Perspectives in Human Geography	Global/National	The course explains an overview of Human Geography, Demographic characteristics, human settlements, migration, and practical components based on it
4.	BPGE 104	Semester I- Spatial Organization of Economic Activities	Global/National	The course provides an overview of the interlink between Geography and various economic activities
5.	BPGE 105	Semester I- Practical components based on BPGE 101 and BPGE 102 Tools and Techniques of Spatial Analysis – I	Global/National	This practical course is designed to provide the students ability to use practical techniques related to the study of Geomorphology and Climatology
6.	BPGE 106	Semester I- Practical components based on BPGE 103 and BPGE 104 Tools and Techniques of Spatial Analysis-II	Global/National	This practical course is designed to provide the students ability to use practical techniques related to the study of Human Geography and Economic Geography

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7.	BPGE 201	Semester II - Oceanography and Hydrology	Global	to give an overview of the science of oceanography and how it is practiced
8.	BPGE 202	Semester II - Geo-informatics	Global/National	To prepare the students in identifying, analysing and solving geospatial problems
9.	BPGE 203	Semester II - Socio-cultural and Political Geography	Global/National	To understand what Social geography and cultural geography are and enable the students to know Social Space and Elements of Society
10.	BPGE 204	Semester II - Urban Geography	Local/Regional	For those who plan careers in planning, design, urban environments, urban governance and/or policy it is important they are familiar with major theories about why cities grow relative to each other, how the internal spatial structure of cities shifts due to changes over time, and what theories are driving policies which attempt to alter urban dynamics
11.	BPGE 205	Semester II - Practical components based on BPGE 201 and BPGE 202 Tools and Techniques of Spatial Analysis – III	Global/National	This practical course is designed to provide the students ability to use practical techniques related to the study of Geoinformatics
12.	BPGE 206	Semester II - Practical components based on BPGE 203 and BPGE 204 Tools and Techniques of Spatial Analysis-IV	Global/National	This practical course is designed to provide the students ability to use practical techniques related to the study of population and urban geography
13.	BPGE301	Semester III - Research Methodology in Geography	Global/National	To give Researchers a general understanding of the Methodology of Geography

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14.	BPGE302	Semester III - Fluvial Geomorphology	Global	Confidently read any riverscape and be able to map its core characteristics
15.	BPGE303	Semester III - Population Geography	Global/National	To discuss the Qualitative and Quantitative aspects of Human Population
16.	BPGE304	Semester III - Geography of Tourism and Recreation	Global/National	Will be able to describe the tourism geography and cognitive framework related to the tourism geography and will be able to explain the importance of strategy and planning to improving sustainable tourism
17.	BPGE305	Semester III - Tools and Techniques of Spatial Analysis - V (Practical Component based on BPGE301 and BPGE302)	Global/National	Will be able to use statistical techniques for geographical analysis
18.	BPGE306	Semester III - Tools and Techniques of Spatial Analysis - VI (Practical Component based on BPGE303 and BPGE304)	Global/National	Will be able to read and understand topographical maps for geographical analysis
19.	BPGE401	Semester IV- Application of Remote Sensing Techniques in Geographical Studies	Global/National	To introduce students to the latest technology used in Geography
20.	BPGE402	Semester IV- Geography of Soils with special reference to Tropics	Global/National	To understand the concepts and principles of soil formation.

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Sr.No.	Course Code	Title of Course	Focus	Description
21.	BPGE403	Semester IV- Cultural Geography	Global/National	To study and identify the philosophical base, problems associated with society & its culture
22.	BPGE404	Semester IV- Geography of Hazards and Disaster Management	Global/National	To provide students an understanding the need for studying the disaster management
23.	BPGE405	Semester IV- Dissertation	Local	Preparation and dissemination of research output having scientific and/or social relevance

## SUMMARY OF GEOGRAPHY COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	15	17	01	-
PG	21	17	01	02Sr.No.

  
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Sr.No.	Course Code	Title of Course	Focus	Description
1.	BUAHINC101	अनिवार्य हिंदी SEM -I	Global	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा
2.	BUAHINC201	अनिवार्य हिंदी SEM -II	Global	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा
3.	BUAHIN101	ऐच्छिक हिंदी Paper -I	National and Local	रोजगारों के कौशल का विकास होगा   ज्ञानात्मक आधार पुष्ट होगा
4.	BUAHIN201	ऐच्छिक हिंदी Paper -I	National and Local	रोजगारों के कौशल का विकास होगा   ज्ञानात्मक आधार पुष्ट होगा
5.	BUAHIN203	मध्यकालीन एवं आधुनिक काव्य Paper 2	National	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा   रोजगारों के कौशल का विकास होगा   ज्ञानात्मक आधार पुष्ट होगा
6.	BUAHIN204	मध्यकालीन एवं आधुनिक काव्य Paper 2	National	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा   रोजगारों के कौशल का विकास होगा   ज्ञानात्मक आधार पुष्ट होगा
7.	BUAHIN303	प्रयोजनमूलक हिंदी SEM I Paper 3	Global	रोजगारों के कौशल का विकास होगा   ज्ञानात्मक आधार पुष्ट होगा

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Sr.No.	Course Code	Title of Course	Focus	Description
8.	BUAHIN304	प्रयोजनमूलक हिंदी SEM II Paper 3	Global	रोजगारों के कौशल का विकास होगा   ज्ञानात्मक आधार पुष्ट होगा
9.	BUAHIN405	हिंदी साहित्य का इतिहास Paper IV	National	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा
10.	BUAHIN406	हिंदी साहित्य का इतिहास Paper IV	National	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा
11.	BUAHIN505	स्वातंत्रोत्तर हिंदी साहित्य Paper V	National	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा
12.	BUAHIN506	स्वातंत्रोत्तर हिंदी साहित्य Paper V	National	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा
13.	BUAHIN605	प्रयोजनमूलक हिंदी (सूचना प्रौद्योगिकी और हिंदी )	Global	रोजगारों के कौशल का विकास होगा   ज्ञानात्मक आधार पुष्ट होगा
14.	BUAHIN606	प्रयोजनमूलक हिंदी (सोशल मिडिया और हिंदी )	Global	रोजगारों के कौशल का विकास होगा   ज्ञानात्मक आधार पुष्ट होगा
15.	BUAHIN705	साहित्य समीक्षा छंद और अलंकार	Global/National	रोजगारों के कौशल का विकास होगा   ज्ञानात्मक आधार पुष्ट होगा
16.	BUAHIN706	साहित्य समीक्षा छंद और अलंकार	Global/National	रोजगारों के कौशल का विकास होगा   ज्ञानात्मक आधार पुष्ट होगा
17.	BUAHIN805	भाषा विज्ञान, हिंदी भाषा और हिंदी व्याकरण	Global/National	रोजगारों के कौशल का विकास होगा   ज्ञानात्मक आधार पुष्ट होगा
18.	BUAHIN806	भाषा विज्ञान, हिंदी भाषा और हिंदी व्याकरण	Global/National	रोजगारों के कौशल का विकास होगा   ज्ञानात्मक आधार पुष्ट होगा

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Sr. No.	Course Code	Title of Course	Focus	Description
19.	BUAHIN905	आधुनिक हिंदी साहित्य की वैचारिक पृष्ठभूमि	Global/National	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा
20.	BUAHIN906	आधुनिक हिंदी साहित्य की वैचारिक पृष्ठभूमि	Global/National	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा

  
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	<b>M.A</b>			
	<b>HINDI</b>			
	<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>			
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BPAHIN101	हिंदी साहित्य का इतिहास पेपर – १	National	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा
2.	BPAHIN103	काव्यशास्त्र एवं साहित्यालोचन पेपर 3	National	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा
3.	BPAHIN105	भाषा विज्ञान एवं हिंदी भाषा पेपर 5	National	ज्ञानात्मक आधार पुष्ट होगा
4.	BPAHIN107	प्राचीन एवं मध्यकालीन काव्य पेपर 7	National	ज्ञानात्मक आधार पुष्ट होगा
5.	BPAHIN202	हिंदी साहित्य का इतिहास पेपर – 2	National	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा
6.	BPAHIN204	काव्यशास्त्र एवं साहित्यालोचन पेपर 4	National	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा
7.	BPAHIN206	भाषा विज्ञान एवं हिंदी भाषा पेपर ६	National	ज्ञानात्मक आधार पुष्ट होगा
8.	BPAHIN208	प्राचीन एवं मध्यकालीन काव्य पेपर 8	National	ज्ञानात्मक आधार पुष्ट होगा





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9.	BPAHIN309	आधुनिक काव्य	Local/Regional	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा
10.	BPAHIN310	आधुनिक काव्य	Local/Regional	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा
11.	BPAHIN311	विविध विमर्श एवं साहित्य	Global	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा
12.	BPAHIN312	मराठी संतों का हिंदी काव्य	Local/Regional	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा
13.	BPAHIN313	विशेष अध्ययन चित्रा मुद्रल	National	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा
14.	BPAHIN 414	मराठी से हिंदी में अनुदित साहित्य का तुलनात्मक अध्ययन	Global	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा
15.	BPAHIN405	जनसंचार माध्यम	Global	रोजगारों के कौशल का विकास होगा   ज्ञानात्मक आधार पुष्ट होगा
16.	BPAHIN406	PROJECT BASED COURSE	National	पाठ्यक्रम के माध्यम से विद्यार्थियों में राजनैतिक, धार्मिक व सांस्कृतिक विश्वदृष्टि का विकास होगा और रसास्वादन के कौशल का विकास होगा

## SUMMARY OF HINDI COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	12	12	--	02
PG	03	10	03	03

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B. A				
HISTORY				
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Sr.No.	Course Code	Title of Course	Focus	Description
1.	BUAHIS101	History Paper I - History of Modern India (1857 CE - 1947 CE)	Global and National	The course will make the student aware about the making of modern Indian History. To understand the struggle for independence. It develops skills to study places, people, and heritage of India.
2.	BUAHIS201	History Paper I - History of Modern India: Society and Economy	Global and National	The course will make the student aware about the modern Indian society and economic conditions. They will get acquainted with the social and cultural development in India and will enhance the knowledge in further developing their skills in social and cultural aspects of India.
3.	BUAHIS302	History Paper II - Landmarks in World History (1300 A.D.- 1945 A.D.)	Global and National	To make the students understand and comprehend the transition of Europe from medieval to modern times and its impact on the world history

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Sr.No.	Course Code	Title of Course	Focus	Description
4.	BUAHIS303	History Paper III - Ancient India from Earliest Times to 1000 A.D.	Global and National	To acquaint the students with different sources of Ancient Indian History. To enable to understand the political, socio-economic, and cultural developments in the period under study.
5.	BUAHIS402	History Paper II - Landmarks in World History, 1300 A.D.- 1945 A.D.	Global and National	To make the students acquainted with the history of West Asia and develop the skill to be aware about the transformation in the Political scenario in Europe to West Asia.
6.	BUAHIS403	History Paper III - Ancient India from Earliest Times to 1000 A.D.	Global and National	To familiarize the students with the important kingdoms ruling during the ancient period. To orient the students with the Classical Age of India.
7.	BUAHIS504	History Paper IV - History of Medieval India (1000 CE-1526 CE)	Global and National	Understand the Medieval Period of India and its impact on Indian History. The establishment of the Sultanate Period.
8.	BUAHIS505	History Paper V - History of Modern Maharashtra (1818 CE-1960 CE)	Global, National and Regional	To acquaint the students with regional history. To understand political and socio-economic developments of Maharashtra during the 19th and 20th centuries.
9.	BUAHIS506	History Paper VI - Introduction to Archaeology	National, Regional and Local	To understand the basic facets of Archaeology and evaluate the importance of Epigraphy. To understand the importance of Numismatics as an important source of history.

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Sr.No.	Course Code	Title of Course	Focus	Description
10.	BUAHIS507	History Paper VII - History of the Marathas (1630 CE – 1707 CE)	Local, Regional and National	To introduce the students with the regional history of Maharashtra. The students will familiarize with the literary sources of the history of the Marathas. To help students to understand the forces leading to the establishment of Maratha power under Chhatrapati Shivaji Maharaj.
11.	BUAHIS508	History Paper VIII - History of Contemporary World (1945 CE – 2000 CE)	Global and National	To trace some of the major events of the post-World War II period and understand the significance of these events. To comprehend the ways in which the events of the latter half of the twentieth century have influenced the present. The students get acquainted with the Contemporary World.
12.	BUAHIS509	History Paper IX - Research Methodology and Sources of History	Global, National, Regional and Local	To teach students basics of research methodology in history with a view to promote historical research. To understand the various kinds of sources of history and its interpretation. To acquaint students with the new trends and approaches in history writing. It will help the student to develop the skill in History.
13.	BUAHIS604	History Paper IV - History of Medieval India (1526 CE-1707CE)	Global and National	To acquaint the students with the history of India since the emergence of the Mughal rule. To understand administration of the Mughal Empire.  To study the rise of the Maratha Power.

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Sr.No.	Course Code	Title of Course	Focus	Description
14.	BUAHIS605	History Paper V - History of Contemporary India (1947 CE- 2000 CE)	National and Regional	To understand the process of making the Constitution and the Integration and Reorganization of Indian States.  To acquaint the students with the political developments in India after Independence. To comprehend the socio-economic changes and progress in science and technology in India.
15.	BUAHIS606	History Paper VI - Introduction to Museology and Archival Science	Global, National, Regional and Local	To inform the students about the role of Museums in the preservation of Heritage. To understand the importance of Archival Science in the study of History.
16.	BUAHIS607	History Paper VII - History of the Marathas (1707 CE – 1818 CE)	Global, National, Regional and Local	To enable the students to understand the processes that led to the expansion of the Maratha Power. To appreciate the contribution of the Marathas in the national politics of the 18th century. To develop an understanding of the society and culture in Maharashtra in the 18th century.
17.	BUAHIS608	History Paper VIII - History of Asia (1945 CE-2000 CE)	Global and National	To acquaint the students with some of the major changes that occurred in Asia after World War II. To understand the ways in which Asian nations resisted and defied the control of the West. To comprehend some of the trends that emerged in Asia.
18.	BUAHIS609	History Paper IX - Research Methodology and Sources of History	National, Regional and Local	To teach students basics of research methodology in history with a view to promote historical research. To understand the various kinds of sources of history and its interpretation.

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				To acquaint students with the new trends and approaches in history writing.
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<b>M.A</b>				
<b>HISTORY</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BPAHIS101	PAPER - I Research Methodology in History	National, Regional and Local	To teach students the basic scientific methodology and tenets as implemented in history writing.
2.	BPAHIS102	PAPER – II Social, Economics & Administrative History of Early India (Up to 1000 CE)	Global, National, Regional and Local	To enable students to understand with the evolution of socio-cultural, religious, and political processes in the early Indian past based on which the plural Indian society was formed.

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Sr.No.	Course Code	Title of Course	Focus	Description
3.	BPAHIS103	PAPER III Social, Economic & Administrative History of Medieval India (1200 CE – 1700)	Global, National, Regional and Local	To facilitate students with the evolution of socio-cultural, religious, and political processes in Medieval Indian past and introducing them to important social, cultural ideas and institutions.
4.	BPAHIS104	PAPER IV Social, Economic and Administrative History of Modern India (1757 CE – 1947 CE)	Global, National, Regional and Local	To facilitate students with the evolution of socio-cultural, religious, and political processes in Modern Indian History as well as impact of British rule in India.
5.	BPAHIS201	PAPER I - Philosophy of History	Global, National, Regional and Local	To make the students get acquainted with the trends of the comprehension of the past and to make them understand the relationship between Philosophy and History.
6.	BPAHIS202	PAPER –II History of Contemporary India (1947-2000 CE)	Global, National, Regional and Local	To equip students with main events and processes of Post Independence Indian history.
7.	BPAHIS203	PAPER – III Milestones in World History (1750 - 1960 CE)	Global and National	To make students understand the main events and processes of Modern World History. This will the students to understand the international events.
8.	BPAHIS204	PAPER – IV History of Emancipatory Movements in the Modern World	Global and National	To make students aware about social movements of the world and introducing her/him with main emancipatory movements of the modern world.

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Sr.No.	Course Code	Title of Course	Focus	Description
9.	BPAHIS301	PAPER –I History of Tribal Art and Literature	Global, National, Regional and Local	To understand Tribal Art as a visual art and material culture of indigenous people. To study the nuances of Tribal Art and Literature.
10.	BPAHIS302	PAPER –II Dr. B. R. Ambedkar and His Movements (1891 CE to 2000 CE)	Global, National, Regional and Local	To provide students with an overall view of Dr. B.R. Ambedkar and his contribution to the growth of social consciousness among the Depressed Classes, Indian nationalism, and changes after conversion to Buddhism among depressed classes.
11.	BPAHIS303	PAPER – III History of Modern Maharashtra (1818 CE – 1960 CE)	Global, National, Regional and Local	To understand the history of Modern Maharashtra. Enhancing the knowledge of the students has its impact during the freedom struggle.
12.	BPAHIS304	PAPER – IV History of Contemporary World (1939 - 2000 CE)	Global, National, Regional and Local	To acquaint Students about the main developments in the Contemporary World.
13.	BPAHIS305	PAPER – V History of Indian Archaeology   Principal B. K. Birla College of Arts, Science & Commerce (Autonomous), Kalyan.	Global, National, Regional and Local  	To introduce the students to basic concept of Indian Archaeology. To familiarize students with various cultures from pre-historic period onwards. To develop interest of students in Numismatics and Epigraphy.



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Sr.No.	Course Code	Title of Course	Focus	Description
14.	BPAHIS402	Source in Historical Research	Global, National, Regional and Local	To understand the historiography and theory related to historical research, writing, and presentation. The course focuses on building basic skills for conducting historical research including locating, utilizing, and analysing sources. Guidelines for Citation and Historical Writing are discussed.
15.	BPAHIS403	Evolution of Human Rights in the 20th Century	Global, National, Regional and Local	To acquaint Students about evolution and importance of Human Rights.
16.	BPAHIS404	Project Based Course	Global, National, Regional and Local	To develop research skills amongst the students.

## SUMMARY OF HISTORY COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	14	18	08	06
PG	15	16	14	14

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## B. A

### MARATHI

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Sr.No.	Course Code	Title of Course	Focus	Description
1.	BUAMARC101	अनिवार्य मराठी SEM -I	Global	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल.
2.	BUAMARC201	अनिवार्य मराठी SEM -II	Global	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल.
3.	BUAMAR101	ऐच्छिक मराठी Paper -I	National and Local	रोजगारद्वारे कौशल विकास होईल .ज्ञानात्मक आधार वाढीस लागेल.
4.	BUAMAR201	ऐच्छिक मराठी Paper -I	National and Local	रोजगारद्वारे कौशल विकास होईल .ज्ञानात्मक आधार वाढीस लागेल.
5.	BUAMAR302	कादंबरी — साहित्य प्रकार Paper 2	National/Regional	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल. रोजगारद्वारे कौशल विकास होईल . ज्ञानात्मक आधार वाढीस लागेल.
6.	BUAMAR402	आत्मकथन — साहित्य प्रकार Paper 2	National/Regional	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल. रोजगारद्वारे कौशल विकास होईल . ज्ञानात्मक आधार वाढीस लागेल.

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Sr.No.	Course Code	Title of Course	Focus	Description
7.	BUAMAR303	भाषा आणि भाषाभ्यास SEM I Paper 3	Global	रोजगारद्वारे कौशल विकास होईल .ज्ञानात्मक आधार वाढीस लागेल.
8.	BUAMAR403	आगरी कवितेचा अभ्यास SEM II Paper 3	Global	रोजगारद्वारे कौशल विकास होईल .ज्ञानात्मक आधार वाढीस लागेल.
9.	BUAMAR504	मध्य युगीन वाङ्मयाचा अभ्यास Paper IV	National	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल. आणि रसास्वाद कौशल विकास होईल.
10.	BUAMAR604	मध्य युगीन वाङ्मयाचा अभ्यास Paper IV	National/Regional	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल. आणि रसास्वाद कौशल विकास होईल.
11	BUAMAR505	भारतीय साहित्यशास्त्र Paper V	National/Regional	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल. आणि रसास्वाद कौशल विकास होईल.
12	BUAMAR605	पाश्चात्य साहित्यशास्त्र Paper V	National /Regional	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल. आणि रसास्वाद कौशल विकास होईल.
13	BUAMAR506	साहित्य आणि समाज Paper V I	Global	रोजगारद्वारे कौशल विकास होईल .ज्ञानात्मक आधार वाढीस लागेल.
14	BUAMAR606	साहित्य आणि समाज Paper V I	Global	रोजगारद्वारे कौशल विकास होईल .ज्ञानात्मक आधार वाढीस लागेल.

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Sr.No.	Course Code	Title of Course	Focus	Description
15	BUAMAR507	आधुनिक भाषा विज्ञान Paper V II	Global/National	रोजगारद्वारे कौशल विकास होईल .ज्ञानात्मक आधार वाढीस लागेल.
16	BUAMAR607	मराठी व्याकरणाची रूपरेषा Paper VII	Global/National	रोजगारद्वारे कौशल विकास होईल .ज्ञानात्मक आधार वाढीस लागेल.
17	BUAMAR508	आधुनिक मराठी साहित्य Paper V III	Global/National	रोजगारद्वारे कौशल विकास होईल .ज्ञानात्मक आधार वाढीस लागेल.
18	BUAMAR608	आधुनिक मराठी साहित्य Paper VIII	Global/National	रोजगारद्वारे कौशल विकास होईल .ज्ञानात्मक आधार वाढीस लागेल.
19	BUAMAR509	व्यासायाभिमुख मराठी Paper IX	Global/National	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल. आणि रसास्वाद कौशल विकास होईल.
20	BUAMAR609	व्यासायाभिमुख मराठी Paper IX	Global/National	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल. आणि रसास्वाद कौशल विकास होईल.

  
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2018-2023

**M.A**

**MARATHI**

**Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) \*List out the papers that have relevance to local/national/regional/global needs**

Sr.No.	Course Code	Title of Course	Focus	Description
1.	BPA MAR101	PAPER –I साहित्याचे स्वरूप आणि आस्वाद प्रक्रिया	Global	रोजगारद्वारे कौशल विकास होईल . ज्ञानात्मक आधार वाढीस लागेल . आणि रसास्वाद कौशल विकास होईल.
2.	BPAMAR102	PAPER –II उपयोजित समीक्षा	National	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल.
3.	BPAMAR103	PAPER – III मराठी वाङ्मयाचा इतिहास	Global/National	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल.
4.	BPAMAR104	PAPER –IV ऐतिहासिक भाषा विज्ञान व मराठी भाषेचा भाषा वैज्ञानिक अभ्यास	Global	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल.
5.	BPAMAR201	PAPER – V साहित्याची भाषा आणि मूल्य विचार	Global	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल.
6.	BPAMAR202	PAPER –VI उपयोजित समीक्षा	Global	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल.
7.	BPAMAR203	PAPER – VII मराठी वाङ्मयाचा इतिहास   Principal B. K. Birla College of Arts, Science & Commerce (Autonomous), Kalyan.	Global  	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल.



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Sr.No.	Course Code	Title of Course	Focus	Description
8.	BPAMAR204	PAPER –V III वर्णनात्मक भाषा विज्ञान , प्रमाणभाषा आणि बोली	National	रोजगारद्वारे कौशल विकास होईल . ज्ञानात्मक आधार वाढीस लागेल.
9.	BPAMAR309	PAPER –IX दलित साहित्य	Global	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल.
10.	BPAMAR310	PAPER – X प्राचीन कालखंडाचा अभ्यास : बहामनी काळ	Local/Regional	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल.
11.	BPAMAR311	PAPER – XI साहित्य प्रकाराचा अभ्यास नाटक	Global	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल.
12.	BPAMAR312	PAPER –X II आदिवासी मराठी साहित्य	Global	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल.
13.	BPAMAR313	PAPER-XI II महानगरीय साहित्य	National	रोजगारद्वारे कौशल विकास होईल . ज्ञानात्मक आधार वाढीस लागेल.
14.	BPAMAR 401	PAPER-X IV आदिवासी संस्कृती ,कला आणि साहित्य	Global	अभ्यास क्रमाद्वारे विद्यार्थ्यांमध्ये सामाजिक, धार्मिक व सांस्कृतिक दृष्टिकोनाचा विकास होईल.
15.	BPAMAR402	PAPER-X V भाषांतर कौशल्ये	Global/National	रोजगारद्वारे कौशल विकास होईल . ज्ञानात्मक आधार वाढीस लागेल.
16.	BPAMAR- PROJ-403	PAPER-X VI प्रकल्प लेखन	Local	रोजगारद्वारे कौशल विकास होईल . ज्ञानात्मक आधार वाढीस लागेल.

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*ISO 9001: 2015 Certified*

**NAAC SSR**

**Cycle IV**

**2018-2023**

## SUMMARY OF MARATHI COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	12	14	05	02
PG	11	05	01	02

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<b>B. A</b>				
<b>PHILOSOPHY</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BUAPHI101 & BUAPHI201	Philosophy I  Moral Philosophy	International	Study of definition of philosophy and the ancient and modern western ethics.
2.	BUAPHI302 & BUAPHI402	Philosophy II  Social and Political philosophy	International	Exposure of the study of the social issues faced by the world and their solutions.  Study of basic concepts of political philosophy such as freedom, equality, justice and recognition.
3.	BUAPHI303& BUAPHI403	Political Science – III  Classical Indian and Western Philosophy	Global	Introduction to the foundations of Indian and Western traditions.

**SUMMARY OF PHILOSOPHYCOURSES**

	<b>Global Needs</b>	<b>National Needs</b>	<b>Regional Needs</b>	<b>Local Needs</b>
<b>UG</b>	<b>01</b>	-	-	-

  
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B. A				
POLITICAL SCIENCE				
Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs				
Sr.No.	Course Code	Title of Course	Focus	Description
1.	BUAPOL101	Political Science – I (Indian Political System)	National	Study of India's Constitution and Government system
2.	BUAPOL201	Political Science – II (Indian Political Process)	National	Exposure of students to the various factors influencing India's political system.
3.	BUAPOL302	Political Science – II (Political Theory)	Global	Exposure of students to the universal concepts like Democracy, Socialism, Power etc
4.	BUAPOL303	Political Science – III (Public Administration)	Global	Study of Public Administration as practiced in most of the nations with its universal theories and principles of organizations, Leadership and Motivation.
5.	BUAPOL402	Political Science - II (Political values & Ideologies)	Global	Exposure of students to global values and ideologies which shapes the political systems of the nations.
6.	BUAPOL403	Political Science - III (Indian Administration)	National and Local	Exposure of students to the Indian Administrative set up with special focus on District Administration in India.
7.	BUAPOL504	Political Science Paper IV (World Politics)	Global	Exposure of students to the International Relations and International Politics.



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Sr.No.	Course Code	Title of Course	Focus	Description
8.	BUAPOL505	Political Science Paper V (Western Political Thought)	Global	Study of western political thought related to polity and governance.
9.	BUAPOL506	Political Science Paper VI (Politics of Modern Maharashtra)	Local/Regional	Exposure of students to the politics in Modern Maharashtra and regional developmental issues in the State.
10.	BUAPOL507	Political Science Paper VII (Concept in Political Sociology)	National	Study of role of political institutions in social development of India.
11.	BUAPOL508	Political Science Paper VIII (International Organisation)	Global	Exposure of students to the United Nations and its System.
12.	BUAPOL509	Political Science Paper IX (Rural Local Self Government)	Local/Regional	Study of Rural Maharashtra's Local Self Government institutions.
13.	BUAPOL604	Political Science IV (India in World Politics)	Global/National	Study of India's Foreign Policy and Diplomacy in the World.
14.	BUAPOL605	Political Science V (Indian Political Thought)	National	Study of political thoughts of great Indian Political Leaders and thinkers.
15.	BUAPOL606	Political Science VI (Political Process in Maharashtra)	Local/Regional	Exposure of students towards determinant of politics of Maharashtra.
16.	BUAPOL607	Political Science VII (Political Dynamism & Society)	Global/National	Study of society on political systems in India and the world.

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Sr.No.	Course Code	Title of Course	Focus	Description
17.	BUAPOL608	Political Science VIII (Regional Organizations and Trans-Continental Groups)	Global/National	Study of international level regional organizations and India's role in SAARC/ASEAN/BRICS etc.
18.	BUAPOL609	Political Science IX (Urban Local Government)	Local/Regional	Study of Urban Maharashtra's Local Self Government institutions.

<b>M.A</b>				
<b>POLITICAL SCIENCE</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
Sr.No.	Course Code	Title of Course	Focus	Description
1.	BPAPOL101	Paper –i political theory-i	Global	Study of the universal political theories.
2.	BPAPOL102	Paper –ii indian government and politics	National	Exposure to the study of Government and Politics in India.
3.	BPAPOL103	Paper – iii public administration	Global/National	Study of global concept of Public Administration vis-à-vis Indian Administration.
4.	BPAPOL104	Paper –iv international relations	Global	Study of World Politics and the concepts of international relations.

  
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Sr.No.	Course Code	Title of Course	Focus	Description
5.	BPAPOL201	Paper –i political theory-ii	Global	Study of universal political theories of Equality, Rights, Justice and Coercion.
6.	BPAPOL202	Paper –ii comparative politics	Global	Exposure of student to Comparative analysis of global political systems.
7.	BPAPOL203	Paper – iii approaches and emerging issues in international relations	Global	Study of world political issues and approaches.
8.	BPAPOL204	Paper –iv indian constitution	National	Study of Indian Constitution and its philosophy
9.	BPAPOL301	Paper –i international law	Global	Exposure of students to global international laws related to Seas, Open Seas, Space, Human Rights etc.
10.	BPAPOL302	Paper –ii political thought in maharashtra	Local/Regional	Study of political thinkers of Maharashtra.
11.	BPAPOL303	Paper – iii political ideologies	Global	Exposure of students to various universal political ideologies.
12.	BPAPOL304	Paper –iv foreign policy of india	Global	Study of India's Foreign Policy and its impact on world politics.
13.	BPAPOL305	Paper-v social movements in india	National	Study of social movements in India.
14.	BPAPOL I 401	Inter-disciplinary course-united nations	Global	Study of United Nations and its system.
15.	BPAPOLS402	Skill based course – introduction to psephology and elections studies	Global/National	Exposure of Students to the study of Psephology and Indian Elections System.

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Sr.No.	Course Code	Title of Course	Focus	Description
16.	BPAPOL-PROJ-403	Project based course	Local	To develop research project through primary and secondary data collection methods on National/Local/regional/global political issues.

## SUMMARY OF POLITICAL SCIENCE COURSES


	Global Needs	National Needs	Regional Needs	Local Needs
UG	09	08	04	05
PG	11	05	01	02

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<b>B.A.</b>				
<b>BACHELORS OF MULTIMEDIA AND MASS COMMUNICATION (FORMERLY KNOWN AS BMM)</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BAMMEC-101	Effective communication –I	Local	This paper Highlights one the basic communication skills of Students
2.	BAMMFC-102	Foundation course –I	Regional	The Awareness among the students related to different aspects of Society
3.	BAMMVC-103	Visual communication	Local	Gives knowledge about the technical aspect of Software
4.	BAMMFMC-104	Fundamentals of mass communication	Local	Aspects of relatable sector of Communication
5.	BAMMCA-105	Current Affairs	Global	Over all View of News Advertisements and relatable things
6.	BAMMHM-106	History of Media	Global	Introduction of Mass Medium sector
7.	BAMMEC-201	Effective communication –II	Global	The aspects of Communication skills is derived on advanced manner
8.	BAMMFC-202	Foundation course –II	Global	The acceptance of all the factors of society related issues
9.	BAMMCW-203	Content Writing	Global	Students will get to learn on Content development for Advertisements
10.	BAMMID-204	Introduction to Advertising	Local	Intro to Advertising World in better way

  
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Sr.No.	Course Code	Title of Course	Focus	Description
11.	BAMMIJ-205	Introduction to Journalism	Local	Intro to Journalism Field
12.	BAMMMGC-206	Media, Gender & Culture	National	The aspects of different issues in media about the representation of Gender and Culture
13.	BAMMC EM-301	Electronic Media-I	Global	Students learn things related to new media aspects
14.	BAMMC CCPR-302	Corporate Communication and PR	Global	Students get to know more about the given and important factor
15.	BAMMC MS-303	Media Studies	Global	The aspect of relatable and informative form
16.	BAMMC IP-304	Introduction to Photography	Global	Students learn skill and technique of Photography
17.	BAMMC FCO-305	Film Communication-I	National	The aspect of Various factors of Film Communication Theory
18.	BAMMC CMM-306	Computers and Multimedia-I	Global	The aspects of Different software's for technical use in Media Industry
19.	BAMMC EM-4011	Electronic media ii	Global	The aspects of Media industry in more elaborative manner
20.	BAMMC WEM-402	Writing and editing in media	National	The average way of Considering the aspects of different kind of structure in Writing and editing skills of Media Docket
21.	BAMMC MMR-404	Mass Media Research	Global	The aspect of Research in Media Field and its importance
22.	BAMMC FCO-405	Film Communication II	Global	The Film Appreciation with more and more effective values

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Sr.No.	Course Code	Title of Course	Focus	Description
23.	BAMMC CMM-406	Computer and Multimedia II	Global	For handling different kind of media software's in the most effective and creating way
24.	BAMMC DRGA-501	Copy writing	Global	The aspect of Advertising as a copy writer
25.	BAMMC DRGA-502	Advertising & marketing research	Regional	The market ratio in a better way of understanding
26.	BAMMC EABB 1502	Globalisation and international adver	Global	Developing any companies brand at its best
27.	BAMMC EADM 1506	Social media marketing	Regional	Handling the new age media especially social media for the better and effective format
28.	BAMMC EACB 1506	Direct marketing & e- commerce	Regional	The aspect of better understanding of market in Advertising World
29.	BAMMC EACB 1507	Documnetary and ad film making	Global	The aspect of various elements in the making of brand work well
30.	BAMMC DRGA-601	Digital media	Global	The Aspect of learning new things on Social Media Sector
31.	BAMMC EJCI 2B601	Contemporary issues	National	Focuses on Relevant Topics happening related to Nature, Ecology , Laws etc
32.	BAMMC DRGA-602	Advertising design (viva)	Global	Students tend to learn the various aspects of making and developing their own brand and media campaign of the same
33.	BAMMC EAAC 2601	Advertising in contemporary society	National	Describes more on the element and aspects of various changes in Adv world
34.	BAMMC EABM 2602	Brand management	Global	It describes the good and effective way of information with relevant case studies
35.	BAMMC EAAS 2604	Advertising & sales promotion	Regional	Advocates more about the development of Brand and its Promotion.

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Sr.No.	Course Code	Title of Course	Focus	Description
36.	BAMMC EAEM 2607	Entertainment & media marketing	Global	The aspects of various new age entertainment sector and evaluation of the same
37.	BAMMC RG-501	Reporting (compulsory)		
38.	BAMMC IJ- 502	Investigative journalism		
39.	BAMMC EJFW 1B501	Features and Writing for Social Justice		
40.	BAMMC EJNM 1B506	News Media Management		
41.	BAMMC EJJP 1B507	Journalism and Public Opinion		
42.	BAMMC EJML 1B508	Media Laws and Ethics		
43.	BAMMC DRG-602	NEWSPAPER and MAGAZINE DESIGN (PROJECT)		
44.	BAMMECMJ 604	Magazine journalism		
45.	BAMMC ELSJ B607	Lifestyle journalism		
46.	BAMMC ETVJB608	Television journalism		

## SUMMARY OF B.A. IN MULTIMEDIA & MASS COMMUNICATION COURSE



	Global Needs	National Needs	Regional Needs	Local Needs
UG	21	05	05	05

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	<b>B.Com.</b>			
	<b>ACCOUNTANCY</b>			
	<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>			
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BUCAFM101	Accounting and Financial Management-I	National Regional Local	Study of Accounting concepts and Accounting standards, Accounting of manufacture, departmental business, hire purchase business
2.	BUCAFM201	Accounting and Financial Management-II	National Regional Local	Study accounting of conversion of single entry to double entry system, branch accounting
3.	BUCAFM301	Accountancy & Financial Management III	National Regional Local	Study of Indian partnership act 1932 and latest amendments in it
4.	BUCMA302	Introduction to Management Accounting	Global National Regional Local	Study financial statement   Principal B. K. Birla College of Arts, Science & Commerce (Autonomous), Kalyan. 



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Sr.No.	Course Code	Title of Course	Focus	Description
5.	BUCAFM401	Accountancy & Financial Management IV	Global National Regional Local	Study Companies act 2013 and latest amendments relating to shares and debentures
6.	BUCMA402	Financial Accounting and Auditing-Auditing	Global National Regional Local	Study auditing of company accounts
7.	BUCFA501	Financial Accounting & Auditing Paper VII- Financial Accounting	Global National Regional Local	Study companies act 2013 ,final accounts as well as change in constitution and professional ethics
8.	BUCCA502	Financial Accounting & Auditing Paper VIII- Cost Accounting	Global National Regional Local	Study of cost center, total cost and profit and sales as well as in units
9.	BUCAFM505	Direct & Indirect Taxes I	National Regional Local	Study Income tax act 1961   Principal B. K. Birla College of Arts, Science & Commerce (Autonomous), Kalyan. 

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Sr.No.	Course Code	Title of Course	Focus	Description
10.	BUCFA601	Financial Accounting IX	Global National Regional Local	Amalgamation, External Reconstruction, absorption and liquidation of company, Underwriting of Shares and Debentures
11.	BUCCA602	Cost Accounting X	National Regional Local	Study accounting of industry and techniques in cost accounting
12.	BUCDIT605	Direct & Indirect Taxes II	National Regional Local	Study GST act2017 and its application

M.Com.(Advanced Accountancy)				
Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs				
Sr.No.	Course Code	Title of Course	Focus	Description
1.	BPCSM101	Strategic Management	Global National Regional Local	This course enables the learners to understand new forms of Strategic Management concepts and their use in business, develops learning and analytical skills of the learners to enable them to solve cases and to provide strategic solutions.

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Sr.No.	Course Code	Title of Course	Focus	Description
2.	BPCECO102	Economic for Business Decision	Global National Regional Local	The course aims at familiarizing the students with the understanding of the economic aspects of current affairs and thereby prepares them to analyse the market behaviour with economic way of thinking and provides insight into application of economic principles in business decisions.
3.	BPCCMA103	Cost and Management Accounting	Global National Regional Local	This course enables the learners to understand the basics of Cost and management accounting and to understand, develop and apply the 5 techniques of costing in the decision making in the business corporate.
4.	BPCBE104	Business Ethics and Corporate Social Responsibility	Global National Regional Local	The main objective of this course is to familiarize the learners with the concept and relevance of Business Ethics in the modern era and to enable learners to understand the scope and complexity of CSR.
5.	BPCRM201	Research Methodology for Business	Global National Regional Local	This course facilitates with basics of Research and the major tools and techniques for development of research abilities of learners.
6.	BPCME202	Macro Economic Concepts and Applications	National Regional Local	This course enables the learners to understand the basic theoretical framework underlying the field of Macro Economics and interpret the various allied components.

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Sr.No.	Course Code	Title of Course	Focus	Description
7.	BPCCF203	Corporate Finance	Global National Regional Local	This course facilitates abilities of learners to understand the objectives of Financial Management and to analyze the financial statements, to understand, develop and apply the techniques of investment in the financial decision making in the business corporate.
8.	BPCECOM204	E-Commerce	Global National Regional Local	This course facilitates the learners to familiarize with the concept and relevance of Business Ethics in the modern era and enables them to understand the scope and complexity of Corporate Social responsibility in the global and Indian context.
9.	BPCAFA301	Advanced Financial Accounting	Global National Regional Local	This course facilitates the learners with accounting for specialized business and enables to understand conversion of foreign currency transactions.
10.	BPCDIT302	Direct Tax	National Regional Local	This course enables the learners to understand of basic concepts in Income Tax & make them aware about the process to compute Income from Different Sources of Income of Individual Assessee.
11.	BPCACA303	Advanced Cost Accounting	Global National Regional Local	This course provides advanced knowledge regarding methods of cost accounting with the concepts of Responsibility Accounting and Strategic Cost Management.

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Sr.No.	Course Code	Title of Course	Focus	Description
12.	BPCPR304	Project Work I	Global National Regional Local	This course promotes research ability of learners required in different business organizations for solving / analyzing / exploring a real life situation/ difficult problem.
13.	BPCCFA401	Corporate Financial Accounting	Global National Regional Local	This course introduces the concept of IFRS and facilitates the knowledge of financial reporting and preparation of consolidated financial statements.
14.	BPCIT402	Indirect Tax - Introduction of Goods and Service Tax	National Regional Local	This course introduces the learners with the basic concepts of GST, levy & collection of GST, Registration process and Payment of GST. .
15.	BPCFM403	Financial Management	Global National Regional Local	This course facilitates the learners about skill and knowledge of financial planning and decision making process in business and various sources of finance.
16.	BPCPW404	Project Work - II	Global National Regional Local	This course promotes research ability of learners required in different business organizations for solving / analyzing / exploring a real life situation/ difficult problem.

## SUMMARY OF ACCOUNTANCY COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	06	12	12	12
PG	13	16	16	16

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Cycle IV

2018-2023

B.Com.				
COMMERCE				
Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs				
Sr.No.	Course Code	Title of Course	Focus	Description
1.	BUCCOM102	Commerce-I	Local National	Exposure of students towards business environment, project planning and entrepreneurship
2.	BUCCOM202	Commerce-II	Local National	Exposure of students towards retailing and overview of service sector and E-commerce
3.	BUCCP303	Commerce III	International National	Exposure to management principles at global level.
4.	BUCLAW307	Business Law I	Local National	Exposure of students towards legal provision of contract drafting, legal rule regarding auction sale and drafting agreement relating to sales of goods, legal provision of promissory note, bill of exchange and cheque bouncing under sec 138 of Negotiable instruments act
5.	BUCADV305	Advertising I	Local National International	Exposure of students towards advertising concept, function advertising agency, economic and social aspect of advertising, brand building skills

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Sr.No.	Course Code	Title of Course	Focus	Description
6.	BUCCSP305	Company Secretarial Practice I	Local National	Exposure of students towards roles, duties, responsibilities, Secretarial standards of Company secretary.
7.	BUCOM403	Commerce IV	Local National	Exposure of students towards Understanding of Indian Production system and Financial Market.
8.	BUCADV405	Advertising II	Local National	Exposure of students towards role of media in advertising, advertising campaign, advertising budget, media planning, creativity skills in advertising
9.	BUCCSP405	Company Secretarial Practice II	Local National	Exposure of students towards statutory reports, development of communication and writing skills.
10.	BUCLAW407	Business Law II	Local	Exposure of students towards company formation and management law, adjudication mechanism under consumer protection law, noncompetitive practices and procedure for obtaining patent, copyright and trademark
12.	BUCCOM503	Commerce V	Local Global International	Exposure to marketing, marketing decision and key marketing dimension
13.	BUCPSK506	Purchasing & Store Keeping	Local Global	Exposure towards material research, E- material management, purchase procedure.

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Sr.No.	Course Code	Title of Course	Focus	Description
14.	BUCEM506	Export Marketing	Local Global international	Exposure of students towards export marketing, overview of global framework of export marketing, EXIM policy and promotion measures
15.	BUCCOM603	Commerce VI	Local Global international	Exposure to Human relation management and human resource development and trends in human resource management
16.	BUCPSK606	Purchasing & Store Keeping II	Local Global international	Exposure of students towards store keeping material handling, store accounting store record, overview of logistics and supply chain management
17.	BUCEM606	Export Marketing II	Local Global international	Exposure of students towards export marketing and promotion organization, overview of export document, export procedure

## SUMMARY OF COMMERCE COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	06	09		15

  
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<b>B.A.F.</b>				
<b>BACHELORS IN ACCOUNTING &amp; FINANCE</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BUCAFFAI101	Financial Accounting I	National	Students will be able to analyze and study financial statements.
2.	BUCAFCAI102	Cost Accounting I	National	Student will be able to understand, manage and optimize the elements of costing
3.	BUCAFFMI103	Financial Management I	National	Students will learn about different concepts relating financial management
4.	BUCAFBCI104	Business Communication I	Global	After completion of the syllabus students will be learn presentation, inter-personal and communication skills and apply them in their respective professional fields.
5.	BUCAFFCI105	Foundation Course I	National	Students will learn inter-personal skills and understand the diverse cultural variations in the organization
6.	BUCAFCEPBE106	Commerce (Business Environment I)	National	Students will be able to analyze the environment and various internal and external factors that affect the business.

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Sr.No.	Course Code	Title of Course	Focus	Description
7.	BUCAFECOI107	Business Economics I	National	After completion of the syllabus students will understand different function of a business which will equip them to become an entrepreneur.
8.	BUCAFFAII201	Financial Accounting II(Special Accounting Areas)	National	Students will learn to apply accounting principles and treatment in various areas of business
9.	BUCAFAUDI202	Auditing I (Introduction & Planning)	National	Subject will equip students with auditing and sampling techniques.
10.	BUCAFIFS203	Innovative Financial Services	National	Students will learn various concepts of finance and some practical aspects of credit cards and consumer finance
11.	BUCAFBCII204	Business Communication II	National	After completion Students will be able to apply writing skills for corporate communication.
12.	BUCAFFCII205	Foundation Course II	National	Students will be able to manage stress related issues and study effects of business activities on environment
13.	BUCAFBLI206	Business Law I (Business Regulatory Framework)	National	After thorough understanding of the course students will be able to understand the legal aspects of businesses
14.	BUCAFBM207	Business Mathematics	National	Students will learn implementation of mathematical models in business.

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Sr.No.	Course Code	Title of Course	Focus	Description
15.	BUCAFFAIII301	Financial Accounting III	National	Student will be able to analyse amalgamated financial statements and learn the accounting treatment of piecemeal distribution
16.	BUCAFCAII302	Cost Accounting II	National	It will help in analysing and preparing accounts of production process costing and contract costing
17.	BUCAFDTI303	Taxation II	National	Students will be able to file their own Income Tax Return after completion of this course
18.	BUCAFFITI304	Information Technology in Accountancy I	Global	Students will learn the basics of MS-Office
19.	BUCAFCAIII305	Foundation Course in Commerce (Financial Market Op)	National	Students will be well placed to comprehend the functioning of financial market.
20.	BUCAFBLII306	Business Law II	National	After thorough understanding of the course students will be able to understand about the business laws which can lead them to become an effective entrepreneur.
21.	BUCAFECOII307	Business Economics II	National	Students will understand the importance of money supply in the economy and effects of various other macro level decisions on the economy.

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Sr.No.	Course Code	Title of Course	Focus	Description
22.	BUCAFFAIV401	Financial Accounting IV	National	Students will be equipped with skill of analysing and preparing the accounts of redemption of shares and foreign branch accounts
23.	BUCAFMAI402	Management Accounting I	National	Students will be able to learn various aspects of management accounting
24.	BUCAFDTHI403	Taxation III(Direct Taxation III)	National	The learner will be able to compute total income of partnership firms, learn concept of clubbing of income.
25.	BUCAFITHI404	Information Technology in Accountancy II	Global	Student will learn about the concepts relating Management Information System and types of reports to be prepared in MIS
26.	BUCAFFCIV405	Foundation Course in Commerce IV	National	Learner will be able to understand the functions of management and different styles of leadership that will help in better management of business
27.	BUCAFBLIII406	Business Law III (Company Law)	National	After thorough understanding of the course students will be able to understand about the company laws which can lead them to become an effective manager and compliance officer

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Sr.No.	Course Code	Title of Course	Focus	Description
28.	BUCAFRM407	Research Methodology in Accounting and Finance	National	This subject will inculcate research skills in the learners
29.	BUCAFFAV501	Financial Accounting V	National	The Learner will be able To analyse accounting procedures required for Financial accounting.
30.	BUCAFCAIII502	Cost Accounting-III	National	It will help in preparing and analysing different aspects of costing
31.	BUCAFFMII503	Financial Management II	National	Students will be able to management and allocate financial resources in business
32.	BUCAFIDTII504	Taxation- IV Indirect Tax	National	The learner will be able to prepare, analyse, interpret and file GST returns
33.	BUCAFMGMA505	Management Paper- II	National	Students will learn about marketing, Production, Human resource and financial aspects of business.
34.	BUCAFPW506	Project Work	Global	Project work will inculcate research skills
35.	BUCAFCAV601	Cost Accounting-V	National	It will help in preparing and analysing different aspects of costing

  
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Sr.No.	Course Code	Title of Course	Focus	Description
36.	BUCAFFMIII602	Financial Management III	National	The learner will be able to understand the conceptual framework and approaches and apply the same in business valuation, analyze changes in capital formation after a merger & acquisition and evaluate working capital financing decisions and application of the same.
37.	BUCAFIDTIII603	Taxation V(Indirect Taxation III)	National	Students will learn about different regulations pertaining to Goods & Services Tax
38.	BUCAFSAPM604	Security Analysis and Portfolio Management	National	Students will be able to make investments decision with the help of computation of various risk and return parameters. They will also learn how to create a portfolio
39.	BUCAFFAVII605	Financial Accounting VII	National	Students will be to analyse and interpret final accounts of electricity company and cooperative society. They will also learn the procedure for investment accounting
40.	BUCAFFA606	Financial Accounting VI	National	The Learner will be able to analyse accounting procedures and final accounts of banking, Insurance companies and Limited Liability Partnership

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<b>M.COM (ACCOUNTING AND FINANCE)</b>				
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<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	(BPCAFACS101)	Accounting Conventions & Standards	National	Students will learn to apply the accounting conventions and standards
2.	(BPCAFDT102)	Direct Tax	National	Students will be able to file their own Income Tax Return after completion of this course
3.	(BPCAFMF103)	Managerial Finance	Global	Students will learn about different concepts relating management of finance
4.	(BPCAFAFA104)	Advanced Financial Accounting	National	Students will learn to apply accounting principles and treatment in various areas of business
5.	(BPCAFCIA201)	Contemporary Issues in Accounting	National	Students will learn the contemporary issues in accounting and will be able to apply the same
6.	(BPCAFIDT202)	Indirect Tax	National	Students will be able to file their own Goods and Services Tax Return after completion of this course
7.	(BPCAFACM203)	Advanced Cost and Management Accounting	National	It will help in analysing and preparing ABC, Budgetary Control, Pricing Decisions

  
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Sr.No.	Course Code	Title of Course	Focus	Description
8.	(BPCAFPFP204)	Personal Financial Planning	Global	Students will learn to apply financial planning in his personal life
9.	(BPCAFFABV301)	Financial Analysis and Business Valuation	National	Students will be able to do the Financial analysis and business valuation
10.	(BPCAFFD302)	Forex and Derivatives	Global	Students will learn various concepts of forex and derivatives and the practical aspects of the same
11.	(BPCAFRM303)	Research methodology	National	This subject will inculcate research skills in the learners
12.	(BPCAFI304)	Internship	National	Students will be able to get the practical experience of work
13.	(BPCAFIA401)	International Accounting	Global	Students will be to prepare the International accounting and special issues in accounting
14.	(BPCAFIFM402)	International Financial Management	Global	Students will learn implementation of financial management
15.	(BPCAFAA403)	Advanced Auditing	National	Subject will equip students with advanced auditing skills ,techniques, investigation and audits.
16.	(BPCAFPW404)	Project Work	National	Project work will inculcate research skills

## SUMMARY OF ACCOUNTING & FINANCE

	Global Needs	National Needs	Regional Needs	Local Needs
UG	04	36	--	--
PG	05	11		

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<b>B.B.I</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BUCBIEMFS101	Environment and Management of Financial Services	National	Students will be able to understand the significant concepts of financial services.
2.	BUSBIQMI107	Quantitative Methods-I	National	Students will be able to understand and gained central tendency, mean, median & mode and concept of deviation
3.	BUCBIFAI103	Financial Accounting – I	National	Learner will understand and analyze various accounting statement.
4.	BUSBIPOM102	Principles of Management	National	Learner will be able to apply various management theories and concepts and functions in the organization.
5.	BUSBIBC1104	Business Communication- Paper I	Globally	Learner will be able to read, write and speech professionally.
6.	BUCBIFCI105	Foundation Course – I   Principal B. K. Birla College of Arts, Science & Commerce (Autonomous), Kalyan.	National  	Learners will understand the concept of diversity, structure of Indian constitution, fundamental rights, and significant process of political process in India and also to understand role of women in Indian politics.



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Sr.No.	Course Code	Title of Course	Focus	Description
7.	BUSBIBEI106	Business Economics-I	Globally	Students will be able to understand and apply demand and supply forecast demand.
8.	BUCBIPP201	Principles and Practices of Banking & Insurance	Globally	The study that encompasses the fundamental concepts, principles an operational aspect of banking and insurance.
9.	BUCBIBL202	Business Law	National	It deals with various legal aspects that arise in the context of commercial activities and transactions. Here are some key areas typically covered under business law:
10.	BUCBIFAI203	Financial Accounting – II	Globally	Its primary purpose is to provide relevant and reliable financial information to external users, such as investors, creditors, regulators, and other stakeholders
11.	BUCBIBCI204	Business Communication- II	Global	Effective business communication is essential for the smooth functioning of a company, fostering collaboration among employees, building relationships with customers and clients, and conveying a professional image to the outside world.
12.	BUCBIFC205	Foundation Course – II	National	Students learn to outline the content, objectives, and learning outcomes of the course. It serves as a roadmap for both students and instructors, providing a clear structure and direction for the teaching and learning process.

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Sr.No.	Course Code	Title of Course	Focus	Description
13.	BUCBIOB206	Organizational Behaviour	National	Students will be able to understand interdisciplinary field of study that explores the behaviour of individuals and groups within organizations and how it affects the organization's effectiveness and overall performance
14.	BUCBIQM207	Quantitative Methods-II	National	Students typically offered in various academic disciplines, including social sciences, business, economics, psychology, engineering, and natural sciences.
15.	BUCBIFMI301	Financial Management – I	National	Students able to understand of financial concepts and equips individuals and organizations with the tools and skills needed to make informed financial decisions, manage resources effectively, and achieve financial success.
16.	BUCBIMA302	Management Accounting	National	Management accounting is a branch of accounting that focuses on providing financial information and analysis to support managerial decision-making within an organization
17.	BUCBIMFM303	Mutual Fund Management	National	It is designed to provide students with the knowledge and skills necessary to understand, analyze, and manage mutual funds effectively.

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Sr.No.	Course Code	Title of Course	Focus	Description
18.	BUCBIITI304	Information Technology in Banking & Insurance-I	National	It has strong focus on technology-related roles. Upon completion of the course, students should be well-equipped to understand and leverage IT solutions to address the unique challenges and opportunities in the dynamic and evolving banking and insurance sectors.
19.	BUCBIFCIII305	Foundation Course –III (An Overview of Banking Sector)	National	It provides students with a comprehensive understanding of the banking industry, its functions, operations, and role in the economy.
20.	BUCBIFMKT306	Financial Markets (Equity, Debt, Forex, Derivatives)	Global	It helps to explore the dynamics of equity markets, debt markets, foreign exchange markets, and derivatives markets, covering their structure, functions.
21.	BUCBIDT307	Direct Taxation	National	Direct Taxation is designed to provide students with a comprehensive understanding of the principles, concepts, and practices related to direct taxes.
22	BUCBIFMII401	Financial Management –II	National	Students will learn more advanced capital budgeting methods, such as the internal rate of return (IRR), modified internal rate of return (MIRR), and the profitability index.

  
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Sr.No.	Course Code	Title of Course	Focus	Description
23.	BUCBIFCIV405	Foundation Course (An Overview on Insurance Sector)	National	Students will learn about different types of insurance, including life insurance, health insurance, property insurance, casualty insurance, and liability insurance. They will understand the unique characteristics and coverage offered by each type
24.	BUCBICA404	Cost Accounting of Banking & Insurance	National	It plays a crucial role in understanding the cost structure of these financial institutions and making informed managerial decisions.
25.	BUCBIRM402	Research Methodology	National	Students will gain a comprehensive understanding of the research process, including formulating research questions, developing hypotheses, and designing research studies.
26.	BUCBICSL406	Corporate Laws & Laws Governing Capital Market	National	Students will gain a thorough understanding of corporate laws, including the formation, management, and dissolution of companies. They will learn about the legal structure of corporations, corporate governance, and the rights and responsibilities of shareholders, directors, and officers.
27.	BUCBIEM403	Entrepreneurship Management	National	Students will learn how to create a comprehensive business plan that outlines the venture's vision, mission, target market, marketing strategies, financial projections, and operational plans.

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Sr.No.	Course Code	Title of Course	Focus	Description
28.	BUCBIBEI407	Business Economics-II	National	Students will gain insights into the business cycle, economic fluctuations, and the significance of macroeconomic indicators like GDP, inflation, and unemployment for business planning and decision-making.
29.	BUCBIFRA501	Financial Reporting & Analysis	National	Students will gain a comprehensive understanding of financial statements, including the income statement, balance sheet, and cash flow statement.
30.	BUCBIIBF505	International Banking & Finance	National	Students able to with a comprehensive understanding of the complexities and challenges involved in international financial transactions and the management of global financial institutions.
31.	BUCBIBECG503	Financial Services Management	National	Students will gain an understanding of the structure and functioning of the financial services industry, including banking, insurance, investment management, and other financial institutions.
32.	BUCBIFSM504	Strategic Management	Global	Students with the knowledge and skills to formulate and execute effective strategies that align with an organization's goals and create a competitive advantage.
33.	BUCBIAUD506	Auditing- I	National	students with a comprehensive understanding of the auditing process and equip them with the necessary skills to perform effective and independent audits.

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Sr.No.	Course Code	Title of Course	Focus	Description
34.	BUCBIPW502	Project Work	National	The project work for finance students aims to provide an opportunity for students to apply theoretical concepts and knowledge gained in their finance courses to real-world scenarios.
35.	BUCBISAPM601	Security Analysis and Portfolio Management	National	Students will be focusing on understanding the principles, techniques, and strategies for evaluating and managing securities and investment portfolios.
36.	BUCAUDII602	Auditing	National	Techniques for planning the audit engagement, including risk assessment and audit strategy development.
37.	BUCBIHRM603	Human Resource Management in Banking & Insurance	Global	Techniques for attracting and selecting skilled professionals for various roles in banking and insurance companies
38.	BUCBITAM604	Turnaround Management	National	It helps in developing negotiation skills to reach favourable agreements with creditors and suppliers.
39.	BUCBICB605	Central Banking	National	Understanding the objectives and tools of monetary policy used by central banks to control inflation, interest rates, and money supply.
40.	BUCBIIT606	Information Technology in Banking and Insurance	National	Students explore digital banking solutions, mobile banking apps, and fintech innovations that are transforming the way financial services are delivered.

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**Cycle IV**

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**SUMMARY OF BACHELORS IN BANKING & INSURANCE COURSES**

	Global Needs	National Needs	Regional Needs	Local Needs
UG	08	32	--	--

  
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**B.M.S.**

**Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) \*List out the papers that have relevance to local/national/regional/global needs**

Sr.No.	Course Code	Title of Course	Focus	Description
1.	BUCMSFA 101	Introduction to Financial Accounting	National	Students will be able to analyze and study financial statements.
2.	BUCMSBL102	Business Law - I	National	After thorough understanding of the course students will be able to understand the legal aspects of businesses
3.	BUCMSBS103	Business Statistics	National	Students will be able to analyze stock market and pick stock using statistical measures which will land them a Job.
4.	BUCMSBCI104	Business Communication Part-I	National	After completion of the syllabus students will be learn presentation, inter-personal and communication skills and apply them in their respective professional fields.
5.	BUCMSFCI105	Foundation Course -I	National	Students will learn inter-personal skills and understand the diverse cultural variations in the organization

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Sr.No.	Course Code	Title of Course	Focus	Description
6.	BUCMSFHS106	Foundation of Human Skills	National	Students will be able to handle human behavioural dynamics in a working environment and psychological factors that contribute to a better work environment.
7.	BUCMSBE107	Business Economics - I	National	After completion of the syllabus students will understand different function of a business which will equip them to become an entrepreneur.
8.	BUCMSPM201	Principles of Marketing	National	After completion students will be equipped with various marketing concepts and theories that will help in marketing the products well.
9.	BUCMSIL202	Industrial Law	National	After thorough understanding of the course students will be able to understand about the labour laws which can lead them to become an effective HR Managers.
10.	BUCMSBM203	Business Mathematics AJ	National	Students will learn implementation of mathematical models in business.
11.	BUCMSBSII204	Business Communication -II	National	After completion Students will be able to apply writing skills for corporate communication.
12.	BUCMSFCII205	Foundation Course -II	National	Students will be able to manage stress related issues and effects of business activities on environment

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Sr.No.	Course Code	Title of Course	Focus	Description
13.	BUCMSBE206	Business Environment	National	Students will be able to analyze the environment and various internal and external factors that affect the business.
14.	BUCMSPOM207	Principles of Management	National	Students will be able to understand the functions of management and different aspects that will help in better management of the organization.
15.	BUCMSFICA301 (Fin)	Introduction to Cost Accounting	National	Develop the skill of Analysing and providing recommendations to improve the operations of organisations through the application of Cost and Management accounting techniques
16.	BUCMSFCF302 (Fin)	Corporate Finance	National	Learners will evaluate finance in business and mobilization of funds, RBI and SEBI regulations and Foreign Direct Investment
17.	BUCMSMCB301 (MKT)	Consumer Behaviour	National	Learners will acquire basic knowledge about issues and dimensions of Consumer Behaviour.
18.	BUCMSMAD302 (MKT)	Advertising	National	The student is able to assess the techniques of execution & evaluation of advertising and related terms
19.	BUCMSHRS301 (HR)	Recruitment and Selection	National	To acquaint learners with the concepts of recruitment , sources and procedure of recruitment

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Sr.No.	Course Code	Title of Course	Focus	Description
20.	BUCMS HOB302 (HR)	Organisation Behaviour & HRM	National	To explain the various aspects of individual behavior. They will be able to analyze the benefits of working in groups and teams
21.	BUCMSITI303	Information Technology in Business Management	National	To explain outsourcing concepts, BPO/KPO industries, their structures, Cloud computing.
22.	BUCMSEM304	Foundation Course - III (Environmental Management )	National	To inform students about sustainable business practices that can benefit both the organisation and the environment.
23.	BUCMSBPEN305	Business Planning and Entrepreneurial Management	National	To discuss the steps in venture development and new trends in entrepreneurship
24.	BUCMSAMD306	Accounting For Managerial Decisions	National	To demonstrate usage of accounting data in critical management situations
25.	BUCMSM307	Strategic Management	National	To explain students on how to integrate and apply their prior learning to various business situations
26.	BUCMSFFIM401 (Fin)	Financial Institutions and Markets	National	To acquaint the functioning of Money Market and Capital Market
27.	BUCMSFSCM402 (Fin)	Strategic Cost Management	National	Understanding of use of modern Strategic Cost Management Techniques would fuel analytical and decision-making skills of students in this current competitive environment.

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Sr.No.	Course Code	Title of Course	Focus	Description
28.	BUCMSMIMC401 (MKT)	Integrated Marketing Communication	National	Structure an integrated marketing communications campaign plan based on the application of marketing concepts, principles, and practices within an organization.
29.	BUCMSMRM402 (MKT)	Rural Marketing	National	Explore the various aspects of rural marketing and develop an insight into rural marketing regarding different concepts and basic practices in this area.
30.	BUCMSHHRPIS 401 (HR)	Human Resources Planning and Information System	National	Develop HRIS software with a focus on Recruitment, Selection, Performance Management, Employee Tracking, Payroll, and Employee Separation
31.	BUCMSHTD402 (HR)	Training and Development in HRM	National	Develop, analyze and apply advanced training strategies and specifications for the delivery of training programs
32.	BUCMSITII 403	Information Technology in Business Management -II	National	Learners will comprehend basic concepts of Email, Internet and websites, domains and security therein
33.	BUCMSEG404	Foundation Course IV (Ethics and Governance)	National	Learners will acquaint the applicability of ethics in functional areas like marketing, finance and human resource management

  
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Sr.No.	Course Code	Title of Course	Focus	Description
34.	BUCMSBEII405	Business Economics - II	National	Learners will comprehend foreign investments, the balance of payments and international trade
35.	BUCMSABRM406	Business Research Methods	National	The course helps student to understand statistical analysis in Research Methodology
36.	BUCMSPTQM407	Production and Total Quality Management	National	Learners will recognize the Basics of Productivity and TQM and various Product and Service Quality, SERVQUAL.
37.	BUCMSFIAPM501	Investment Analysis & Portfolio Management (PP)	National	Students will be able to practice the tools and techniques of individual securities and portfolio analysis
38.	BUCMSFCDM502	Commodity & Derivatives Market	National	It will enable the student to understand the derivative trading in commodities and its risk management
39.	BUCMSFWM503	Wealth Management	National	The students will learn managing investments, taxes, estate planning, insurance, cash flow, and retirement planning.
40.	BUCMSFDIT504	Direct Tax	National	The students will compute income from salaries, house property, business/profession, capital gains and income from other sources.
41.	BUCMSMSM501	Services Marketing	National	Students will learn concepts and techniques that will help in taking decisions relating to various services marketing situations.

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Sr.No.	Course Code	Title of Course	Focus	Description
42.	BUCMSMEDM502	E-Commerce & Digital Marketing	National	Identify the component parts of e-commerce. Identify the benefits of selling online.
42.	BUCMSMSDM503	Sales & Distribution Management	National	It will impart skills and knowledge needed to <i>manage sales</i> force and <i>distribution</i> function so as to gain competitive advantage.
43.	BUCMSMCRM504	Customer Relationship Management	National	It will help the student to identify and target the best customers, generate quality sales, and help organizations to plan and implement marketing campaigns with clear <i>goals</i> ...
44.	BUCMSHFHR501	Finance for HR Professionals & Compensation Management	National	To learn basic compensation concepts and the context of compensation practice and illustrate different ways to strengthen the pay-for-performance link.
45.	BUCMSHSHRM502	Strategic Human Resource Management & HR Policies	National	Learners will perceive the human resource management from a strategic perspective and will get information about linking the HRM functions to corporate strategies in order to understand HR as a strategic resource.

  
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Sr.No.	Course Code	Title of Course	Focus	Description
46.	BUCMSHPNCP503	Performance Management & Career Planning	National	The learners will be able to understand how employee goals are aligned with departmental and overall organizational goals and objectives and to develop, recognize, and incentivize desired behavior and performance.
47.	BUCMSHIR504	Industrial Relations	National	The learners will be acquainted with the concepts, principles and issues connected with trade unions, collective bargaining, workers participation, grievance redressal, and employee discipline and dispute resolution.
48.	BUCMSLSCM505	Logistics & Supply Chain Management	Global	The learners will gain a sound foundation in the technical knowledge necessary in the field of logistics and <i>supply chain management nationally and globally</i> .
49.	BUCMSPW506	Project Work	National	The Learner will develop the analytical ability, problem solving skill with the help of necessary statistical tools and techniques to solve the organizational problems.
50.	BUCMSIF 601	International Finance	Global	Students will be aware of the different kinds of foreign exchange management techniques including hedging, currency arbitrage, etc. They will be in a position to manage multinational working capital in an efficiently and effectively.

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Sr.No.	Course Code	Title of Course	Focus	Description
51.	BUCMSIFS602	Innovative Financial Services	National	Students would acquaint themselves about financial service market and its constituents and would assess growth of financial services and the problems faced by financial services in India.
52.	BUCMSPM 603	Project Management	National	Understand project and project management as a way of working.
53.	BUCMSIDT 604	Indirect Taxes	National	To enable students to explain the basic concepts, definitions and terms related to Goods and Service tax. (GST).
54.	BUCMSBM601	Brand Management	National	Systematic understanding and comprehensive knowledge of brand theories and concepts, such as brand equity, identity, personality and brand architecture.
56.	BUCMSRM602	Retail Management	National	The students will be introduced to the fundamental concepts of Retail Management and the career opportunities available in this field and also various issues associated with store operation, visual merchandising, merchandising, inventory management, retail sales etc.
57.	BUCMSIM603	International Marketing	Global	Students explore all aspects of marketing from a global perspective to better respond to international opportunities and competitive situations.

  
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Sr.No.	Course Code	Title of Course	Focus	Description
58.	BUCMSMPM604	Media Planning & Management	National	Learners will perceive about Media Planning, Strategy and Management with reference to current business scenario
59.	BUCMSHRGP601	HRM in Global Perspective	Global	The students will gain knowledge, understanding and key skills required by HR professionals working in an international context with multinational organisations and to enable students to effectively contribute to dynamic organisations.
60.	BUCMSOD602	Organizational Development	National	The learners will be able to understand the forces that have been driving organizations to change and development, explore the dimensions of change and the approaches of the developmental process.
61.	BUCMSHRSSM603	HRM in Service Sector Management	National	The course will help students learn HRM practices in service sectors. The course will help them understand employee empowerment, satisfaction and performance management.
62.	BUCMSIEM604	Indian Ethos & Management	National	The students will Understand the various elements of Indian ethos and management lessons from Indian scriptures.
63.	BUCMSOR605	Operation Research	National	The learners will be able to recognize the importance and value of Operations Research and linear programming in solving practical problems in industry

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Sr.No.	Course Code	Title of Course	Focus	Description
64.	BUCMSCCPR606	Corporate Communication and Public Relations	National	The Learners will acquire the basic understanding of the concepts of corporate communication and Public Relations

## SUMMARY OF BACHELORS IN MANAGEMENT STUDIES COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	04	60	-	-


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**M. COM. (BUSINESS MANAGEMENT)**

**Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) \*List out the papers that have relevance to local/national/regional/global needs**

Sr.No.	Course Code	Title of Course	Focus	Description
1.	BPCBMSM101	Strategic Management	National	Students will be able to analyze and study Business Strategies.
2.	BPCBMEBD102	Economics for Business Decisions	National	After thorough understanding of the course students will be able to understand and apply economics concepts and theories.
3.	BPCBMCMA103	Cost and Management Accounting	National	Students will be able to learn and apply Cost management strategies.
4.	BPCBMBECSR104	Business Ethics and Corporate Social Responsibility	National	After completion of the syllabus students will be learn the ethical values and CSR
5.	BPCBMRMB201	Research Methodology for Business	National	Students will learn and apply the research techniques
6.	BPCBMMECA202	Macro Economics concepts and Applications	National	Students will be able to understand and apply Marco economics principles in practice.
7.	BPCBMCF203	Corporate Finance	National	Students will understand the sources of fiancé, Students identify the foreign direct investments and policies for FDI

  
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Sr.No.	Course Code	Title of Course	Focus	Description
8.	BPCBMEC204	E-Commerce	Global	After completion students will be equipped with skills to do business online.
9.	BPCBMHRM301	Human Resource Management	National	After thorough understanding various functions of HR like Recruitment, Selection , training, etc.
10.	BPCBMMSP302	Marketing Strategies and Practices	National	Students will learn implementation of marketing strategies.
11.	BPCBMOB303	Organizational Behaviour	National	After completion Students will be able to understand organization structure.
12.	BPCBMPW304	Project Work – I	National	Students will be able to conduct the research and learn things with practical experience.
13.	BPCBMSCML401	Supply Chain Management and Logistics	National	Students will be able to study the concepts and practices of supply chain management.
14.	BPCBMRM402	Retail Management	National	Students will be able to understand the functions of retailers and management of retail business.
15.	BPCBMMBR403	Management for Business Relations	National	Students will learn the tactics of managing relations in business and getting things done from channel partners.
16.	BPCBMPW404	Project Work – II	National	Student will develop the analytical ability, problem solving skill with the help of necessary statistical tools and techniques to solve the organizational problems.

**SUMMARY OF M.COM BUSINESS MANAGEMENT COURSES**

	Global Needs	National Needs	Regional Needs	Local Needs
PG	01	15	-	-

  
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<b>M.Com.</b>				
<b>BANKING &amp; FINANCE</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BPCBFSM101	Strategic Management	International National	Understanding new forms of Strategic Management concepts and their use in business
2.	BPCBFEBD102	Economics for Business Decisions	International National	Understanding Perfect competition and Monopoly structure
3.	BPCBFCMA103	Cost and Management Accounting	International National	Understanding new forms of Cost and management accounting.
4.	BPCBFBE104	Business Ethics and Corporate Social Responsibility	International National	Understanding Business Ethics, Corporate & Social responsibility in the global context.
5.	BPCRM201	Research Methodology for Business	International National	Use of statistical tools and techniques applicable for research

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Sr.No.	Course Code	Title of Course	Focus	Description
6.	BPCME202	Macro Economic Concepts and Applications	International National	Understanding macroeconomic concepts, International Aspects of Macroeconomic Policy
7.	BPCCF203	Corporate Finance	International National	Understanding techniques and tools of investment in the financial decision making in the business corporate
8.	BPCECOM204	E-Commerce	International National	Understanding functioning of Electronic Commerce and E-enterprise, Electronic Payment Security issues of E-commerce System
9.	BPCBFCBM301	Commercial Bank Management	International National	Understanding functioning of Commercial Banking in India, Evolving Trends in Modern Banking
10.	BPCBFFM302	Financial Markets	International National	Understanding functioning of Capital Market, Derivatives Market, Globalization of Financial Market
11.	BPCBFABS303	Accounting of Banking Sector	International National	Understanding Accounting Systems & Provisions in Banks, Disclosures requirement under BASEL norms
12.	BPCBFPW304	Project Work- I		To develop research skills amongst the students
13.	BPCBFIF401	International Finance	International National	Understanding functioning Exchange rate regime, & Global Financial Management International Monetary Fund.

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Sr.No.	Course Code	Title of Course	Focus	Description
14.	BPCBFFS402	Financial Services	International National	Understanding Evolution of Financial Services, Portfolio Management and Other Financial Services
15.	BPCBFABS403	Auditing of Banking Sector	International National	Understanding Audit Working Papers, Audit Note Book, Audit Evidence, Guidance Note on Audit of Banks by ICAI
16.	BPCBFPW404	Project Work II	International National	To develop research skills amongst the students.

## SUMMARY OF M.COM BANKING & FINANCE COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
PG		15		

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**B.Voc****FINANCIAL MARKET AND TRADING OPERATIONS**

**Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) \*List out the papers that have relevance to local/national/regional/global needs**

Sr.No.	Course Code	Title of Course	Focus	Description
1.	BUCFMTOBC101	Business Correspondent (SSC)	National	Students will be able to understand the banking sector and the job role of Business Correspondent and Business Facilitator.
2.	BUCFMTOIFS102	Introduction to Financial System	National	Students will be able to know the flow of funds in the financial system and role of Reserve Bank of India as a regulator in India.
3.	BUCFMTOBE103	Business Economics – I	Global	Students will be able to understand the use of demand and supply analysis and different type of market structures in the economy.
4.	BUCFMTOCP104	Commerce Paper -I	Global	Students will be able to identify and evaluate the complexities of the business environment and their impact on the business.
5.	BUCFMTOFD201	Mutual fund Distributor (SSC)	National	Students will develop the skills for the job role of Mutual Fund Distributor and also understand how to conduct market research to sell the products.

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Sr.No.	Course Code	Title of Course	Focus	Description
6.	BUCFMTOFC202	Foundation Course – I	National	Students will be able to understand the demographic composition in India and interpret fundamental duties of the Indian citizens.
7.	BUCFMTOBE203	Business Economics – II	National	Students will be able to use critical thinking skills about pricing methods are used in business world and evaluate capital projects to take correct decisions.
8.	BUCFMTOCP204	Commerce Paper-II	Global	Students will be able to analyse the emerging trends in the service sector and development of E-commerce in India and the world.
9.	BUCFMTOCL205	Corporate Laws	National	Students will be able to understand procedures for incorporation of companies, its amalgamation and winding up.
10.	BUCFMTOFIO301	Microfinance Executive (SSC)	National	Students will be able to develop skill for the job role of Microfinance Executive and understand process to acquire new customers.
11.	BUCFMTOGFM302	Global Financial Market	Global	Students will be able to understand equity markets, bond markets and various risks associated with the investments.
12.	BUCFMTOC30	Commerce -III	National	Students will be able develop skills in understanding the steps involved in management and its importance in any business.

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Sr.No.	Course Code	Title of Course	Focus	Description
13.	BUCFMTOBL304	Business Law	National	Students will be able to understand various laws relating to contract, sale of goods, negotiable instruments and protection of consumers.
14.	BUCFMTOBE305	Business Economics –III	National	Students will be able to learn concepts and developments in macro economics.
15.	BUCFMTOIA401	Insurance Agent (SSC)	National	Students will be able to develop skill for the job role of Insurance Agent and understand process to source new customers.
16.	BUCFMTOPT402	Practical Training 90 Hours (Covered in Viva Voce)	Global	Students will able to do internship and develop skills through practical experience of concepts learned and work as an insurance agent.
17.	BUCFMTOCM403	Commodity Market	Global	Students will able to understand emergence and role of commodity markets as well as commodity exchanges in India.
18.	BUCFMTOBL404	Business Law –II	National	Students will able to understand various laws and legal provisions for companies, partnership firms and limited liability partnerships.
19.	BUCFMTOBE405	Business Economics –IV	National	Students will able to develop skills in fiscal management including public revenue, public expenditure and public finance.

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Sr.No.	Course Code	Title of Course	Focus	Description
20.	BUCFMTOITF501	International Trade Finance (SSC)	Global	Students will be able to analyze different types of ratios and understand letters of credit and documentation required in international trade.
21.	BUCFMTOPT502	Practical Training 90 Hours (Covered in Viva Voce)	National	Students will be able to do internship and develop skills through practical experience of concepts learned.
22.	BUCFMTOMMIO503	Money Market Instruments and Operations	National	Students will be able to understand money market instruments, its regulatory framework and recent developments in money market.
23.	BUCFMTODM504	Derivative Market	National	Students will be able to analyze various derivative products, its trading and regulatory framework.
24.	BUCFMTOMFP505	Marketing of Financial Products	National	Students will be able to understand the service market segmentation, issues faced in it and importance of customer satisfaction.
25.	BUCFMTOCMM601	Credit Administration and Monitoring Manager (University/College)	National	Students will be able to identify project assessment, project evaluation and credit risk assessment techniques.
26.	BUCFMTORM602	Risk Management	National	Students will be able to evaluate foreign exchange risk, exchange rate risk and its impact on the stakeholders.

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Sr.No.	Course Code	Title of Course	Focus	Description
27.	BUCFMTOTM603	Treasury Management	National	Students will be able to classify treasury markets and treasury services and compute currency forwards, future and present value.
28.	BUCFMTOFPWM604	Financial Planning and Wealth Management	National	Students will be able to understand and use the concepts of insurance planning, investment planning and calculate post tax returns for the investments.
29.	BUCFMTOPT502	Securities Market Law	National	Students will be able to identify the role and function of Securities and Exchange Board of India and Depositories in India.

## SUMMARY OF FINANCIAL MARKET AND TRADING OPERATIONS COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	07	22	--	--


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<b>B.Voc.</b>				
<b>(BUSINESS MANAGEMENT AND ENTREPRENEURIAL DEVELOPMENT)</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BUCBMEDILS101	Introduction to Legal System	National	Students should gain a comprehensive understanding of the legal system in their country, including its structure, key institutions (e.g., courts, legislatures, executive branches), and how they interact.
2.	BUCBMEDCABM102	Computer Application in Business Management	National	Gain an understanding of various business functions, such as finance, marketing, operations, and human resources, and how computer applications can support and streamline these functions.
3.	BUCBMEDFC103	Foundation Course -I	National	Provide students with a foundational understanding of the subject area or academic discipline they are entering. Familiarize students with key concepts, terminology, and fundamental principles relevant to the field of study.

  
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Sr.No.	Course Code	Title of Course	Focus	Description
4.	BUCBMEDPM104	Principles of Management	National	Explore various management theories and models, such as classical, behavioural, contingency, and modern management theories. Study leadership styles, motivation theories, and strategies for effectively leading and motivating teams and individuals.
5.	BUCBMEDBE105	Business Economics	Globally	Explore both microeconomic principles (individual and firm-level decision-making) and macroeconomic principles (economy-wide issues like inflation, unemployment, and economic growth).
6.	BUCBMEDBC106	Business Communication -I	National	Enhance written communication skills, including writing clear and concise emails, memos, reports, and other business documents.
7.	BUCBMEDFE107	Fundamentals of Entrepreneurship	Globally	Develop an entrepreneurial mindset, which includes creativity, innovation, risk-taking, and a proactive approach to problem-solving. Comprehensive understanding of the concept of entrepreneurship, its history, and its role in the economy.
8.	BUCBMEDEM201	Environmental Management	Globally	Develop a comprehensive understanding of environmental issues, including ecosystems, biodiversity, climate change, pollution, and natural resource management.

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Sr.No.	Course Code	Title of Course	Focus	Description
9.	BUCBMEDFC202	Foundation Course-II	National	Foster an awareness of how the subject area connects to and intersects with other disciplines and fields of study.
10.	BUCBMEDFA203	Financial Accounting	Globally	Understand the valuation and measurement of assets, liabilities, and equity, including historical cost and fair value accounting. Gain insights into the importance of financial reporting and its role in providing information to investors, creditors, and other external stakeholders.
11.	BUCBMEDBE204	Business Environment	Global	Develop a comprehensive understanding of the concept of the business environment, including its components and dynamics.
12.	BUCBMEDBCII205	Business Communication-II	Global	Improve written communication skills for crafting professional emails, memos, reports, proposals, and other business documents.
13.	BUCBMEDILL206	Industrial & Labour Laws	National	Study the legal aspects of industrial relations, including trade unions, collective bargaining, and dispute resolution mechanisms.
14.	BUCBMEDPOM207	Principles of Marketing	National	Understand the four Ps of marketing: product, price, place, and promotion, and how they are used to create and deliver value to customers

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Sr.No.	Course Code	Title of Course	Focus	Description
15.	BUCBMEDIT301	Information Technology	Global	Develop a foundational understanding of information technology, its history, and its role in modern society. Explore the software development process, including programming languages, coding, testing, and debugging
16.	BUCBMEDHVPE302	Human Values & Professional Ethics	National	Reflect on personal values and virtues that guide ethical behaviour, including honesty, integrity, empathy, and respect
17.	BUCBMEDRDM303	Rural & Digital Marketing	National	Develop data analysis skills to assess the performance of digital marketing campaigns and make data-driven decisions
18.	BUCBMEDOB304	Organizational Behaviour	National	Develop a foundational understanding of what organizational behaviour is and why it is important in the workplace.
19.	BUCBMEDHRM305	HRM	National	Learn how to align HR strategies with organizational goals and forecast human resource needs. Learn how to set performance expectations, conduct performance appraisals, and provide feedback to employees.
20.	BUCBMEDSM306	Strategic Management	Global	Explore various strategic planning models and frameworks, such as SWOT, PESTEL, and Porter's Five Forces, to guide strategic decision-making.

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Sr.No.	Course Code	Title of Course	Focus	Description
21.	BUCBMEDPM401	Project Management	National	Learn how to define project objectives, scope, stakeholders, and deliverables during the project initiation phase. Understand how to allocate and manage project resources, including personnel, equipment, and materials.
22.	BUCBMEDCL402	Corporate Laws	National	Understand the laws and regulations related to the issuance, trading, and disclosure of securities in the financial markets.
23.	BUCBMEDBRM403	Business Research Methods	National	Explore ethical issues related to business research, including informed consent, privacy, and data handling.
24.	BUCBMEDCCPR404	Corporate Communication & Public Relations	National	Develop a foundational understanding of corporate communication, public relations, and their significance in the business context.
25.	BUCBMEDFM405	Financial Management	National	Learn how to analyze financial statements (income statement, balance sheet, and cash flow statement) to assess an organization's financial.

  
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Sr.No.	Course Code	Title of Course	Focus	Description
26.	BUCBMEDCB406	Consumer Behaviour	National	Explore the stages of the consumer decision-making process, including problem recognition, information search, evaluation of alternatives, purchase, and post-purchase evaluation.
27.	BUCBMEDTD501	Training and Development	National	Learn how to conduct training needs assessments to identify gaps in employee skills and performance.
28.	BUCBMEDMA502	Management Accounting	National	Learn cost concepts, such as fixed costs, variable costs, and direct and indirect costs, and how they impact financial performance
29.	BUCBMEDI503	Internship / Field Study	National	Apply theoretical knowledge gained in the classroom to real-world situations and challenges.
30.	BUCBMEDEG504	Ethics & Governance	National	Explore the principles and practices of corporate governance, including board structures, roles, and responsibilities.
31.	BUCBMEDPW505	Project Work	National	Develop a project proposal outlining the project's objectives, methodology, timeline, and resources required.
32.	BUCBMEDERP601	Enterprise resource Planning	Global	Understand the various components of an ERP system, including modules for finance, human resources, supply chain, manufacturing, and more.

*[Signature]*

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Sr.No.	Course Code	Title of Course	Focus	Description
33.	BUCBMEDIPCR602	Intellectual Property & Copy Rights	National	Study copyright laws, regulations, and principles, including what can and cannot be copyrighted.
34.	BUCBMEDRM603	Retail Management	National	Develop a foundational understanding of retail management concepts, principles, and practices.
35.	BUCBMEDCM604	Change Management	National	Explore various change models and theories, such as Kotter's 8-Step Model or Lewin's Change Model, to understand the process of change.
36.	BUCBMEDEC605	E-Commerce	National	Develop a foundational understanding of what E-Commerce is, its history, and its significance in modern business.

## SUMMARY OF BUSINESS MANAGEMENT AND ENTREPRENEURIAL DEVELOPMENT COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	09	27		

  
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**Cycle IV**

**2018-2023**

<b>B.M.S. (RETAIL MANAGEMENT)</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BUCMSPOM101	Principles of Management	Global	Students will be able to understand the functions of management and different aspects that will help in better management of the organization.
2.	BUCMSFOR102	Fundamentals of Retailing	Global	Students will be able to implement different aspects of merchandising, retail channels and process of selection of retail location.
3.	BUCMSPOMKT103	Principles of Marketing	Global	After completion students will be equipped with various marketing concepts and theories that will help in marketing the products well.
4.	BUCMSBC104	Business Communication	Global	After completion Students will be able to apply writing skills for corporate communication.

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Sr.No.	Course Code	Title of Course	Focus	Description
5.	BUCMSCAB105	Computer Application in Business	National	Students will learn the basics of MS-Office, Management Information System, E-Security systems and practical application of email and Internet.
6.	BUCMSBAT106	Basic Automobile Technology	National	Students will understand and learn about the various concepts relating to basic automobile technology, production process and systems of automobiles.
7.	BUCMSEM201	Environmental Management	Global	Students will be made aware of various environmental concepts. They will also learn the importance and impacts of environment on human life.
8.	BUCMSGBS202	Grooming and Behavioural Skills	National	Student will acquire inter-personal skills, presentation skills, communication skills. They will also learn different aspects of personality development and corporate etiquettes.

  
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Cycle IV

2018-2023

Sr.No.	Course Code	Title of Course	Focus	Description
9.	BUCMSFAR203	Financial aspects of Retail Business	National	Students will learn about different concepts relating financial management in retail business.
10.	BUCMSLAR204	Legal Aspects of Retail Business	National	After thorough understanding of the course students will be able to understand the legal aspects of Retail businesses
11.	BUCMSOBH205	Organisational Behaviour and Human Resource Management	Global	Students will understand different socio-cultural, Human resource related factors that affects an individual's behaviour within an organization.
12.	BUCMSMPS206	Maruti Products & Services	National	Students will be able to understand and distinguish between different products and services offered by Maruti Suzuki India Limited (MSIL). They will also learn about different areas and categories of MSIL business. Students will be in better position to sell the products of MSIL after studying the subjects.

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**NAAC SSR**

**Cycle IV**

**2018-2023**

## SUMMARY OF BMS (RETAIL MANAGEMENT) COURSES

		Global Needs	National Needs	Regional Needs	Local Needs
	UG	06	06	--	--

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<b>B. COM</b>				
<b>FINANCIAL MANAGEMENT</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BUCFMFAII201	Financial Accounting II	National	Students should learn basics of Financial Accounting and the procedure to maintain books of accounts.
2.	BUCFMBS202	Business Statistics	National	Students must learn how to solve the basic statistical problems and apply them in practical life.
3.	BUCFMFP203	Principles of Finance	National	To provide financial knowledge to the students and enable them to take financial decisions.
4.	BUCFMBCII204	Business Communication II	Global	To inherit good communication skills in students and have a better language speaking quality.
5.	BUCFMFCII205	Foundation Course II	National	To enable the students to manage stress related issues & study effects of business activities on environment.
6.	BUCFMEVS206	Environmental Science	Global	Students must inherit environmental related values and understand the importance of renewable resources.

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Sr.No.	Course Code	Title of Course	Focus	Description
7.	BUCFMCSI207	Computer Skills I	Global	It will enable the students to gain knowledge of computers and use them in productive manner.
8.	BUCFMCAII401	Corporate Accounts II	National	To make the students know and learn the system of accounts maintained in corporate firms.
9.	BUCFMDTII402	Direct Tax II	National	To give an insight of how the taxes are calculated and paid.
10.	BUCFMCAII403	Cost Accounting II	National	To make the students understand the calculation of cost for the product.
11.	BUCFMITM404	I.T. in Management	Global	Students will learn the usage of computers and its operations.
12.	BUCFMCF405	Corporate Finance	National	It will help help the student to have an idea of dividend decision & capital budgeting.
13.	BUCFMCL406	Corporate Law	National	To provide knowledge about legal framework within which business corporates need to operate.
14,	BUCFMRM407	Research Methodology	National	To create a research background for students and enable them to develop new research methods.
15.	BUCFMCAIV601	Corporate Accounting IV	National	Students must learn cash management skills, amalgamation & absorption, mutual funds etc.

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Sr.No.	Course Code	Title of Course	Focus	Description
16.	BUCFMAUDII602	Auditing II	Global	Students will have an insight of how the documents are audited and verified in business corporates.
17.	BUCFMOB603	Organisational Behaviour	National	To enable the students to know about the behavior of people working in the organization.
18.	BUCFMSAPM604	Security Analysis & Portfolio Management	National	Enables the students to learn and gain knowledge about stock market and how it works and the management of portfolio for the investors.
19.	BUCFMFMII605	Financial Management II	National	To enable the students, understand the concept of managing finance and how to use it effectively.
20.	BUCFMOM606	Office Management	National	Students will be able to understand the management of office and administration work.

## SUMMARY OF B.COM (FINANCIAL MANAGEMENT) COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	05	15	--	--

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B. Sc.				
BOTANY				
Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs				
Sr.No.	Course Code	Title of Course	Focus	Description
1.	BUSBO101	PAPER I: Plants: Life of Universe I	Local, National and Global	Study of microbes and cryptogams present in biogeographical regions of India and world.
2.	BUSBO102	PAPER II: Fundamentals of Plant Sciences I	Local, and National	Exposure of students to Plant Bionomics influencing National and global environment.
3.	BUSBO201	PAPER I: Life of Universe: Plants II	Local, National and Global	Learn the habitat, occurrence, and life cycle of vascular plants.
4.	BUSBO202	PAPER II: Fundamentals of Plant Sciences II	Local, National and Global	Acquire knowledge of plant physiology, anatomy, and medicinal importance.
5.	BUSBO301	PAPER I: Plant Diversity III	Local, National and Global	Develop critical understanding of the habitat, life cycles of cryptogams in local, National, and global context.
6.	BUSBO302	PAPER II: Forms & Functions III	Local, National and Global	Critically understand the cell biology and molecular biology and environmental botany.
7.	BUSBO303	PAPER III: Current Trends in Plant sciences- I	Local, National	Understand the industrial relevance of botanicals with respect to current demands of industry.

  
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Sr.No.	Course Code	Title of Course	Focus	Description
8.	BUSBO401	PAPER I: Plant Diversity IV	Local, National and Global	Develop an understanding of living and non-living vascular plants.
9.	BUSBO402	PAPER II: Forms & Functions IV	Local, National and Global	Learn basic metabolic pathway of plants.
10.	BUSBO403	PAPER III: Current Trends in Plant sciences- II	Local and National	Gain knowledge of Horticulture, Forestry and Gardening
11.	BUSBO501	PAPER I: Plant Diversity V	Local, National	Learn the applied skills of algal and fungal biotechnology.
12.	BUSBO502	PAPER II: Plant Diversity VI	Local/Regional and National	Understand the principals of plant taxonomy, systematics, paleobotany, and palynology in India
13.	BUSBO503	PAPER III: Form and Function V	Local/Regional and National	Comprehend different fundamental and applied aspects related to plant (cytogenetics, plant physiology, ecology and plant tissue culture).
14.	BUSBO504	PAPER IV: Current Trends in Plant Sciences III	Local/Regional and National	Develop an understanding of concepts and fundamentals of ethnobotany and its application
15.	BUSBO601	PAPER I: Plant Diversity VII	Local/Regional and National	Gain information on Applied aspects of Bryophytes, and Pteridophytes
16.	BUSBO602	PAPER II: Plant Diversity VIII	Local, National and Global	Understand concepts and fundamentals of plant taxonomy, anatomy, its significance, and role in adaptation.

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Sr.No.	Course Code	Title of Course	Focus	Description
17.	BUSBO603	PAPER III: Form and Function VI	Local, National and Global	Gain knowledge of plant biochemistry, gene structure and function and biodiversity and remote sensing
18.	BUSBO604	PAPER IV: Current Trends in Plant Sciences IV	Local, National	Learn the fundamentals of applied aspects of plant biotechnology, economic botany, and post-harvest technology.

<b>M. Sc.</b>				
<b>BOTANY</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
Sr.No.	Course Code	Title of Course	Focus	Description
1.	BPSBO101	PAPER I: Plant Diversity: Cryptogams I	Local, National	Understand commercial application of algae and Fungi
2.	BPSBO102	PAPER II: Plant Diversity - Spermatophyta I	Local, National and Global	Gain Knowledge of origin and evolution of vascular plants and comprehend the systematics of flowering plants.
3.	BPSBO103	PAPER III: Plant Physiology	Local, National and Global	Learn the fundamentals pf plant physiological pathway.
4.	BPSBO104	PAPER IV: Molecular Biology, Cytogenetics, and Plant Biotechnology I	Local, National and Global	Understand the mechanistic pathway of the cell division and recombinant DNA technology.

  
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Sr.No.	Course Code	Title of Course	Focus	Description
5.	BPSBO201	PAPER I: Plant Diversity: Cryptogams II	Local, National and Global	Learn the diversity, structural organization and reproduction and evolution of organs of bryophytes and pteridophytes.
6.	BPSBO202	PAPER II: Form and Function	Local, National and Global	Gain knowledge about the plant anatomy and developmental biology in general and different tissue systems in particular.
7.	BPSBO203	PAPER III: Plant Physiology and Environmental Botany	Local, National and Global	Accumulate the comprehensive view on biotic and abiotic stress to the plant and its after-effect in plant metabolic pathways and ultimately to the population and community ecology.
8.	BPSBO204	PAPER IV: Medicinal Botany and Dietetics	Local, National	Learn the cultivation process and harvest economically important medicinal plants in India.
9.	BPSBO301	PAPER I: Molecular Biology I	Local, National and Global	Understand the basic concept of functioning of plant cells.
10.	BPSBO302	PAPER II: Molecular Biology II	Local, National and Global	Understand the basic theoretical concepts and techniques of Cell Biology and Molecular Biology with special reference to plants.
11.	BPSBO303	PAPER III: Plant Biotechnology	Local, National	Learn both the theoretical and practical aspects of plant tissue culture.

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Sr.No.	Course Code	Title of Course	Focus	Description
12.	BPSBO304	PAPER IV: Molecular Biology and Cytogenetics II	Local, National and Global	Analyze the molecular mechanism of cell division and to interrelate the process of the normal and abnormal cell and tissue growth, and immunological pathway along with genetic disorder associated with it.
13.	BPSBO401	PAPER I: Techniques and Instrumentation I	Local, National and Global	Understand the techniques and application of centrifugation and chromatography, PCR, and nanotechnology.
14.	BPSBO402	PAPER II: Techniques and Instrumentation II	Local, National and Global	Understand the techniques and application of microscopy and spectroscopy and learn green synthesis of nanoparticles.
15.	BPSBO403	PAPER III: Plant Biotechnology & Biostatistics	Local, Regional, National and Global	Understand the issues and challenges of environmental biotechnology ; learn IPR and big data analysis using statistical and bio-informatics tools.
16.	BPSBO404	PAPER IV: Molecular Biology and Cytogenetics	Local, National and Global	Explore the modern and contemporary approaches in plant breeding and recombinant DNA technology.

**SUMMARY OF BOTANY COURSES**

	Global Needs	National Needs	Regional Needs	Local Needs
UG	09	18	04	18
PG	13	16	01	16

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<b>B. Sc.</b>				
<b>ZOOLOGY</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BUSZOO101	Systematics-I and Biodiversity	National	Study of classification of organisms with help of nationally and globally accepted methods.  Study of national biodiversity of fauna.
2.	BUSZOO102	Essentials in Biological Laboratories and Biostatistics	Local	Safety measures to be followed by students while working with hazardous chemicals in laboratory.
3.	BUSZOO1	Practical Based on BUSZOO101 and BUSZOO102	National	Practical relevant to universally accepted methods of classification.  Safe handling of hazardous chemicals and application of statistics to the biological data.
4.		1.Digital Literacy 2.English Language Proficiency	National	To acquire literacy in digital field.  English being the global language, acquiring

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Sr.No.	Course Code	Title of Course	Focus	Description
5.	BUSZOO201	Systematics-II and Ecosystem	National	Study of classification of organisms with help of nationally and globally accepted methods.  Study of environment and ecology.
6.	BUSZOO201	Genetics, Evolution and Ethology	National	Studies of classical genetics, theories of evolution and animal behaviour in their natural habitat.
7.	BUSZOOP2	Practical Based on BUSZOO201 and BUSZOO202	National	Practical relevant to universally accepted methods of classification.  To practically study genetics, evolution, and ethology.
8.		1.Digital Literacy 2.English Language Proficiency	National	To acquire literacy in digital field.  English being the global language, acquiring
9.	BUSZOO301	Chordate Systematics and Life Processes-I	National	Study of classification of organisms with help of nationally and globally accepted methods.  Study of comparative physiology and study of vital life processes.

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Sr.No.	Course Code	Title of Course	Focus	Description
10.	BUSZOO302	Molecular Biology, Biochemistry and Genetics	Global	Understanding importance of water in biological systems, important biochemical bonds, and biological buffers.  To study central dogma of life and its functions. Understanding advance principles of genetics.
11.	BUSZOO303	Parasitology, Fishery and Research Methodology	Regional,	Study of Indian marine and freshwater fishery and its economic importance. Understanding ecto and endoparasites, their pathophysiology and treatment. Deals with globally accepted methods used for undertaking research.
12.	BUSZOOP3	Practical based on BUSZOO301, BUSZOO302 and BUSZOO303	Global	Practical relevant to universally accepted methods of classification.  Structures and their use in various physiological processes. To understand practical relevance of molecular biology, parasitology, fishery etc.

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Sr.No.	Course Code	Title of Course	Focus	Description
13.	BUSZOO401	Chordate Life and Life Processes II and III	National	Study of classification of organisms with help of nationally and globally accepted methods.  Study of comparative physiology and study of vital life processes.
14.	BUSZOO402	Biotechnology, Cell biology and Embryology	Global	Understanding universal concepts in biotechnology, cell biology and embryology.
15.	BUSZOO403	Applied Entomology, Animal Husbandry, Wildlife management and Zoogeography	National	Study of economically important insects, cattles, sheeps, poultry birds and their role in Indian economy. Understanding concepts of wildlife management and its conservation with reference to India.
Sr.No.	Course Code	Title of Course	Focus	Description
16.	BUSZOOP4	Practical based on BUSZOO401, BUSZOO402 and BUSZOO403	National	Practical relevant to universally accepted methods of classification.  Study of gene manipulation methods and their significance. Understanding cell and various cell organelles and their functions. Structures and their use in various physiological processes. To understand practical relevance of entomology, animal husbandry and wildlife management and conservation etc.

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17.	BUSZOO501	Structural, Functional and Developmental Aspects of Animal Life-I	National	Understanding invertebrate system.  Developmental stages in frog. Study of various bones in man.
18.	BUSZOO502	Regulatory Aspects of Animal Life-I	National	Understanding regulatory methods of human systems such as hematology, immunology, enzymology etc.
19.	BUSZOO503	Modern Aspects of Biological Sciences-I	Global	Study of genetic engineering, toxicology, biotechnology, and molecular genetics.

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Sr.No.	Course Code	Title of Course	Focus	Description
20.	BUSZOO504	General Aspects of Zoology and Bio nanotechnology	National	Understanding aspects relevant to bio

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				nanotechnology and general aspects of zoology.
21.	BUSACEVS501	Environmental Science	National	Understanding various factors related to environment and its issues.
22.	BUSZOO5	Practical based on BUSZOO501, BUSZOO502, BUSZOO503 and BUSZOO504	National	Hands on training with experiments relevant to the concepts taught in theory.
23.	BUSACEVSP1	Practical based on Applied component: Environmental Science BUSACEVS501	National	Practically evaluating environmental factors and understanding their significance.
24.	BUSZOO601	Structural, Functional and Developmental Aspects of Animal Life-II	National	Understanding vertebrate system wrt Shark  Developmental stages in chick embryo. Study of various muscles in man and human endocrine system.
25.	BUSZOO602	Regulatory Aspects of Animal Life -II	National	Understanding regulatory methods of human systems such as hematology, immunology, enzymology etc.
26.	BUSZOO603	Modern Aspects of Biological Sciences-II	Global	Study of genetic engineering, toxicology, biotechnology, and molecular evolution.

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Sr.No.	Course Code	Title of Course	Focus	Description
27.	BUSZOO604	General Aspects of Zoology and Bioinformatics	National	Understanding aspects relevant to bioinformatics and general aspects of zoology.
28.	BUSACEVS02	Environmental Science	National	Understanding various factors related to environment and its issues.
29.	BUSZOO6	Practical based on BUSZOO601, BUSZOO602, BUSZOO603 and BUSZOO604	National	Hands on training with experiments relevant to the concepts taught in theory.
30.	BUACEVSP2	Practical based on Applied component: Environmental Science BUSACVES601	National	Practically evaluating environmental factors and understanding their significance.

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<b>M.Sc</b>				
<b>ZOOLOGY</b>				
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<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BPSZOO101	Essentials of Zoology-I	Global	Study of taxonomical methods, type study of invertebrate animals. Culture techniques of small animals for laboratory use.
2.	BPSZOO102	Biochemistry and Physiology-I	Global	Study of water biochemistry, making of biological buffers and important physiological processes
3.	BPSZOO103	Modern Concepts in Zoology-I	Global	Study of molecular biology of prokaryotic system, bioinformatics etc.
4.	BPSZOO104	Techniques and Methodologies in Zoology-I	Global	Use of techniques, instruments and methodologies commonly employed in biological laboratories.
5.	BPSZOO1	Practical based on BPSZOO101, BPSZOO102,	Global	Experiments relevant to the concepts taught in theory.



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		BPSZOO103 and BPSZOO104		
Sr.No.	Course Code	Title of Course	Focus	Description
6.	BPSZOO201	Essentials of Zoology-II	Global	Study of taxonomical methods, type study of vertebrate animals.  Developmental biology of vertebrates etc.
7.	BPSZOO202	Biochemistry and Physiology-II	Global	Study of bioenergetics and processes important for life
8.	BPSZOO203	Modern Concepts in Zoology-II	Global	Study of molecular biology of eukaryotic system.

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Sr.No.	Course Code	Title of Course	Focus	Description
9.	BPSZOO204	Techniques and Methodologies in Zoology-II	Global	Use of techniques, instruments and methodologies commonly employed in biological laboratories.
10.	BPSZOO2	Practical based on BPSZOO201, BPSZOO202, BPSZOO203 and BPSZOO204	Global	Experiments relevant to the concepts taught in theory.
11.	BPSZOOBIOT301	Basics of Industrial & Environmental Biotechnology - I	Regional	Study of applications of biotechnological processes relevant to industry, especially alcohol production, vitamin production using sugar industry waste. Environmental processes and remediation are governed by biotechnological processes.
12.	BPSZOOBIOT302	Genetic Engineering Techniques & Its Applications	Global	Study of recombinant DNA technology and its applications in the fields of environment, agriculture etc.
13.	BPSZOOENDO303	Invertebrate Endocrinology & Applications	National	Study of hormonal control in insects and other invertebrates, to apply the knowledge in the fields of pest control and management.

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Sr.No.	Course Code	Title of Course	Focus	Description
14.	BPSZOOENDO304	General & Vertebrate Endocrinology	National	Study of hormonal control in vertebrates, especially mammals, hormonal disorders seen in man etc.
15.	BPSZOOBIOTP3	Based on BPSZOOBIOT301 and BPSZOOBIOT302	National	Hands on training with experiments relevant to the concepts taught in theory.
16.	BPSZOOENDOP3	Based on BPSZOOENDO303 and BPSZOOENDO304	National	Hands on training with experiments relevant to the concepts taught in theory.
17.	BPSZOOBIOT401	Basic of Industrial & Environmental Biotechnology II	Reginal	Biotechnological processes used in the state industries.
18.	BPSZOOBIOT402	Genome management, manipulation, regulations, and patents in biotechnology	Global	Study of modern genetics with respect to gene manipulation.
19.	BPSZOOENDO403	Vertebrate Endocrinology and Reproductive biology	National	Hormonal studies relevant reproduction, reproductive disorders
20.	BPSZOOENDO404	Comparative and Molecular Endocrinology	Global	Study of molecular aspects of hormones and their uses in medical field.
21.	BPSZOOBIOTP4	Based on BPSZOOBIOT401 and BPSZOOBIOT402	National	Experiments relevant to the concepts taught in theory.

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Sr.No.	Course Code	Title of Course	Focus	Description
22.	BPSZOOENDOP4	Based on BPSZOOENDO403 and BPSZOOENDO404	National	Experiments relevant to the concepts taught in theory.
23.	BPSZOOECB301	Cell Biology–I	Global	Study of fundamental aspects of cell -its structure and function.
24.	BPSZOOECB302	Cell Biology–II	Global	Study of fundamental aspects of cell -its structure and function.
25.	BPSZOOECB303	Cytogenetics –I	Global	Study of structure of chromosomes, their alterations, karyotypes etc.
26.	BPSZOOECB304	Cytogenetics –II	Global	Study of structure of chromosomes, their alterations, karyotypes etc.
27.	OOCBP3	Practical based on BPSZOOECB301 BPSZOOECB302 BPSZOOECB303 BPSZOOECB304	Global	Experiments relevant to the concepts taught in theory.
28.	OOCB401	Cell Biology–III	Global	Study of Molecular aspects of cell biology
29.	OOCB402	Clinical Cytogenetics	Global	Study of medical aspects congenital diseases, methods of treating them etc.

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Sr.No.	Course Code	Title of Course	Focus	Description
30.	DOCB403	Tools and Techniques in Cell Biology and Cytogenetics	Global	Study of working principles of instruments and tools employed in the fields of cell biology and cytogenetics.
31.	DOCB404	Research Based Project	National	Development of skills required for research and problem solving.
32.	BPSZOOCP4	Practical based on BPSZOOCP401 BPSZOOCP402 BPSZOOCP403	Global	Experiments relevant to the concepts taught in theory.

**SUMMARY OF ZOOLOGY COURSES**

	Global Needs	National Needs	Regional Needs	Local Needs
UG	05	23	01	01
PG	22	08	02	00

  
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B. Sc.				
MICROBIOLOGY				
Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs				
Sr.No.	Course Code	Title of Course	Focus	Description
1.	BUSMB101	Fundamentals of Microbiology	local/national/regional/global	Basic understanding of the microbial world is of significance worldwide
2.	BUSMB102	Basic Techniques in Microbiology	local/national/regional/global	Techniques to be learnt for the use of the science
3.	BUSMBP-1	Practicals P1,2	local/national/regional/global	Skills and Techniques to be learnt for the use of the science
4.	BUSMB201	Basics of Microbiology	local/national/regional/global	Basic understanding of the microbial world is of significance worldwide
5.	BUSMB202	Exploring Microbiology	local/national/regional/global	Techniques to be learnt for the use of the science
6.	BUSMBP-2	Practicals P1,2	local/national/regional/global	Skills and Techniques to be learnt for the use of the science
7.	BUSMB301	Biomolecules and microbial taxonomy	local/national/regional/global	Fundamental biochemistry and taxonomy essential for global learning
8.	BUSMB302	Environmental Microbiology	local/national/regional/global	Knowledge of worldwide microbial niches is discussed
9.	BUSMB303	Introduction to clinical microbiology and basic immunology.	local/national/regional/global	Knowledge of diseases and immunology has relevance at all levels

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Sr.No.	Course Code	Title of Course	Focus	Description
10.	BUSMBP- 3	Practicals- P1,2,3	local/national/regional/global	Skills essential at all the levels.
11.	BUSMB401	Metabolism and basic analytical techniques	local/national/regional/global	Understanding of metabolism and analytical instruments and techniques is useful at all levels
12.	BUSMB402	Introduction to genetics and biofuel	local/national/regional/global	Conceptual knowledge of Genetics and biofuel generation is useful for green initiatives at local level and can be extrapolated to regional, national and global level
13.	BUSMB403	Fermented Foods and Food sanitation	local/national/regional/global	Conceptual knowledge of local, regional, national and global cuisine of fermented foods is essential for application of knowledge for employability and/ or entrepreneurial initiatives.
14.	BUSMBP-4	Practicals	local/national/regional/global	Skills useful at all the levels
15.	BUSMB501	Microbial Genetics	local/national/regional/global	Conceptual knowledge of Genetics is of use at all the levels of learning and application
16.	BUSMB502	Medical microbiology and immunology -1	local/national/regional/global	Understanding pathogenesis and therapeutics of various infections will be helpful at all the levels
17.	BUSMB503	Microbial Biochemistry-1	local/national/regional/global	Understanding the microbial biochemistry can be of use at all levels for deriving bioactives from microbial cells.

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Sr.No.	Course Code	Title of Course	Focus	Description
18.	BUSMB504	Bioprocess Technology -1	local/national/regional/global	Conceptual and skills of the Bioprocess technology will be useful for students at all the levels
19.	BUSMBP-05	Practicals	local/national/regional/global	Practical skills will be useful for students at all the levels
20.	BUSMB601	r-DNA Technology, Bioinformatics and Virology	local/national/regional/global	The r- DNA technology and Bioinformatics domain is providing solutions to various challenges like vaccines, therapeutic peptides, enzymes, globally.
21.	BUSMB602	Medical microbiology and immunology -2	local/national/regional/global	Understanding pathogenesis and therapeutics of various infections will be helpful at all the levels
22.	BUSMB603	Microbial Biochemistry-2	local/national/regional/global	Understanding the microbial biochemistry can be of use at all levels for deriving bioactives from microbial cells.
23.	BUSMB604	Bioprocess Technology -2	local/national/regional/global	Conceptual and skills of the Bioprocess technology will be useful for students at all the levels
24.	BUSMBP -06	Practicals	local/national/regional/global	Practical skills will be useful for students at all the levels

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<b>M.Sc.</b>				
<b>MICROBIOLOGY</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BPSMBP-101	<b>Cell Biology</b>	local/national/regional/global	In depth knowledge of procaryotic and eucaryotic cell cytology
2.	BPSMBP-102	Microbial Genetics- I	local/national/regional/global	
3.	BPSMBP-103	Medical Microbiology and Immunology- I	local/national/regional/global	
4.	BPSMBP-104	Microbial Biochemistry	local/national/regional/global	
5.	BPSMBP- 7	Practicals	local/national/regional/global	Practical skills
6.	BPSMBP-104B	Synthetic Biology and IPR	local/national/regional/global	Intellectual property owners, draft agents, process agents, etc.
7.	BPSMiB105	Research Methodology	local/national/regional/global	Research skills will be honed
8.	BPSMBP-201	Cell biology & Environmental Microbiology	local/national/regional/global	Understanding of the various types of cellular organization and their ecology helps one to optimize the microbial manipulation to derive bioactives

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Sr. No.	Course Code	Title of Course	Focus	Description
9.	BPSMBP-202	Microbial Genetics- II	local/national/regional/global	Understanding of microbial genetics and their applications
10.	BPSMBP-203	Medical Microbiology - II	local/national/regional/global	Medical health and diagnostics, therapeutics, and pharmaceuticals
11.	BPSMBP-204	Microbial Biochemistry- II	local/national/regional/global	Understand and manipulate metabolism of bacteria and humans to aid therapeutics
12.	BPSMBP- 8	Practicals	local/national/regional/global	Practical skills
13.	BPSMB301	Tools and Techniques: Research Methodology		
14.	BPSMB302	Food Microbiology		
15.	BPSMB303	Advances in Biotechnology		
16.	BPSMB304	Applied and Environmental Microbiology		
17.	BPSMB3P1	Literature Survey and Research Project Proposal		
18.	BPSMB3P2	Food Microbiology		
19.	BPSMB3P3	Advances in Biotechnology	Principal B. K. Birla College of Arts, Science & Commerce (Autonomous), Kalyan.	



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Sr. No.	Course Code	Title of Course	Focus	Description
20.	BPSMB3P4	Applied and Environmental Microbiology		

## SUMMARY OF MICROBIOLOGY COURSES


	Global Needs	National Needs	Regional Needs	Local Needs
UG	24	24	24	24
PG	12	12	12	12

  
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<b>B.Sc.</b>				
<b>PHYSICS</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BUSPH101	Classical Physics	National	Students will learn fundamental principles of Physics and will be able to suggest innovative solutions to problems in Applied Physics.
2.	BUSPH102	Modern Physics	National	Students will be able to opt for higher education including interdisciplinary fields and will be able to undertake competitive examinations.
3.	BUSPHP1	Practical –I	National	Students will develop an ability to use contemporary experimental apparatus, analytical tools, and virtual tools.
4.	BUSPH201	Mathematical Physics	National	To expose the students to novel mathematical techniques
5.	BUSPH202	Electricity and Electronics	National	To enhance the Problem solving skills.
6.	BUSPHP2	Practical –II	National	Understand the concept of Lissajous figures and how they can be used to represent the superposition of harmonic oscillators.

  
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Sr.No.	Course Code	Title of Course	Focus	Description
7.	BUSPH301	Theory of errors and mechanics	National	Develop the theory of damped and forced vibrations.
8.	BUSPH302	Analogue and Digital Electronics	National	Convert between different types of number systems. This includes using the rules of place value and bitwise operations.
9.	BUSPH303	Thermodynamics	National	Estimate the entropy change in various thermodynamic systems.
10.	BUSPHP3	Practical -III	National	Observe the temperature scale and absolute zero temperature. This includes understanding how the temperature scale is defined and what absolute zero temperature is.
11.	BUSPH401	Optics	National	Develop mathematical equations for different types of diffractions. This includes the diffraction grating equation and the Fresnel diffraction integral.
12.	BUSPH402	Quantum Mechanics	National	Understand the different types of electromagnetic waves, such as radio waves, microwaves, infrared light, visible light, ultraviolet light, X-rays, and gamma rays.
13.	BUSPH403	Applied Physics	National	To expose the students various areas of applied Physics such as telecommunication, ultrasonics and Nanotechnology
14.	BUSPHP4	Practical –IV	National	Understand the properties of nanomaterials and how they can be used in different applications.

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Sr.No.	Course Code	Title of Course	Focus	Description
15.	BUSPH501	Mathematical Methods in Physics	National	Apply probability concepts to solve problems involving random variables and continuous distributions.
16.	BUSPH502	Solid State Physics	National	Understand the basics of crystallography, Electrical properties of metals. Band Theory of solids, demarcation among the types of materials, Semiconductor Physics and Superconductivity.
17.	BUSPH503	Atomic Physics	National	To develop students' understanding of the Schrödinger equation and its applications to atomic structure.
18.	BUSPH504	Electrodynamics	National	Understand the basic concepts of magnetism, including diamagnets, paramagnets, and ferromagnets.
19.	BUSACEI 501	Applied Component- Analogue Circuits and Instruments	National	Understand the boundary conditions that apply to electromagnetic fields.
20.	BUSPHP505	Practical Course	National	Enable students to apply principles of Classical Physics.
21.	BUSPHP506	Practical Course	National	Understand the basic concepts of magnetism, including diamagnets, paramagnets, and ferromagnets.
22.	BUSACEI5P1	Applied Component- Practical-I	National	Apply Maxwell's equations to solve problems involving electromagnetic fields in matter.

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Sr.No.	Course Code	Title of Course	Focus	Description
23.	BUSPH601	Classical Mechanics	National	Understand the basic concepts of central force motion, including the Kepler problem and the Lagrange equations.
24.	BUSPH602	Electronics	National	Understand the basic concepts of operational amplifier: its prototype and applications as Instrumentation amplifier, active filters, comparators and waveform generation.
25.	BUSPH603	Nuclear Physics	National	To introduce the basic concepts of nuclear physics, including the structure of the nucleus, nuclear forces, and nuclear reactions.
26.	BUSPH604	Special Theory of Relativity	National	Explain Galilean and Newtonian relativity with necessary mathematical formulations and describe Michelson-Morley experiment.
27.	BUSACEI 601	Digital Electronics, Microprocessor and it's applications, Programming in C++	National	Describe basic concepts of special theory of relativity including basic postulates and derive Lorentz Transformation Equations
28.	BUSPHP605	Practical Course	National	Explain concepts like time dilation, length contraction twin paradox and solve problems based on these concepts
29.	BUSPHP606	Practical Course	National	To inculcate Circuit analysis ability among the students.

  
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M. Sc				
PHYSICS				
Curriculum with focus on employability/entrepreneurship/ skill development				
Sr. No.	Course Code	Title of Course	Focus	Description
1.	BPSPH101	Mathematical Methods	Global	To develop mathematical skills required to solve problems in various branches of Physics
2.	BPSPH102	Classical Mechanics	Global	To expose students to classical techniques required to solve problems in dynamics of many body systems.
3.	BPSPH103	Quantum Mechanics-I	Global	Apply advanced mathematical tools to solve well established realistic (3-D) cases of potentials
4.	BPSPH104	Solid State Physics	Global	To introduce origin of physical, chemical and magnetic properties of solids and to introduce various theories required.
5.	BPSPHP101	Practical I	Global	Exposure to measurement techniques and instrumentation
6.	BPSPHP102	Practical II	Global	To introduce advancements in electronics
7.	BPSPH201	Microprocessor and Microcontroller -I	Global	Students should be able to understand how to design circuits using microprocessors
8.	BPSPH202	Electrodynamics	Global	Explain relativistic covariant formulation of electrodynamics

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Sr.No.	Course Code	Title of Course	Focus	Description
9.	BPSPH203:	Quantum Mechanics-II	Global	Explain and apply quantum mechanical approach for scattering problems
10.	BPSPH204	Solid State Devices	Global	To introduce semiconductor physics.
11.	BPSPHP201	Practical I	Global	Remember fundamental concepts of statistical mechanics, identify and apply mathematical tools for statistical mechanical framework
12.	BPSPHP202	Practical II	Global	Exposure to advanced circuits
13.	BPSPH301:	Statistical Mechanics	Global	Remember fundamental concepts of statistical mechanics, identify and apply mathematical tools for statistical mechanical framework
14.	BPSPH302	Nuclear Physics	Global	To introduce properties of nucleus, radioactive decay and various nuclear models and elementary particles.
15.	BPSPHET303	Microprocessor and Microcontrollers	Global	To introduce programming of IC 8085,8086,8051 programming
16.	BPSPHET304:	C++ Programming and ARM 7	Global	To introduce algorithms and machine languages
17.	BPSPHET305	Fundamentals of Material Science	Global	Students will be able to understand mechanical Properties of Metals
18.	BPSPHET306	Nanotechnology and Semiconductor device Technology	Global	Students will be able to solve basic solid-state physics problems.

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Sr.No.	Course Code	Title of Course	Focus	Description
19.	BPSPH401	Experimental Physic	Global	To introduce various experimental techniques and methods of experimental data analysis.
20.	BPSPH402	Atomic and Molecular Physics	Global	To introduce principles of atomic and molecular physics
21.	BPSPHET403	VHDL and Communication Interface	Global	Students should be able to undertake projects based on VHDL.
22.	BPSPHET 406	Materials and their applications	Global	To develop the understanding of the principles of metallurgy, and explore the properties of polymers, plastic and ceramic materials.
23.	BPSPHET404	Research Methodology and Introduction to Intellectual Property Rights	Global	To expose students to research methodology and Intellectual Property Rights
24	BPSPHET405	Numerical Methods	Global	To introduce concept of numerical methods in Physics

## SUMMARY OF PHYSICS COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG		29		
PG	24			

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<b>B.Sc.</b>				
<b>CHEMISTRY</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BUSCH101	Chemistry Paper I	National	Lay the foundations of chemistry education within a science framework, in terms of fundamental knowledge.
2.	BUSCH102	Chemistry Paper II	National	Learners start to become informed about the part that science plays in the world around them.
3.	BUSCHP1	Chemistry Practical	Global	Exposure of students to developing essential skills and embedding a secure knowledge through practical.
4.	BUSCH201	Chemistry - I (General Chemistry)	Global	Develop ability to understand the concept of electrochemistry such as galvanic cell, anode, cathode electrode potential and EMF of cell.
5.	BUSCH202	Chemistry - II (General Chemistry)	Global	This course focuses on how learner can be able to derive expression of different types of Catalysis.
6.	BUSCHP2	Chemistry- (Practical-II)	National and Local	Exposure of students to the various practical procedures like preparation of inorganic, inorganic compounds and analysis.

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Sr.No.	Course Code	Title of Course	Focus	Description
7.	BUSCH301	Chemistry Paper 1	Global	Study of unimolecular and bimolecular reactions along with the concept of Energy of activation and can solve the numerical.
8.	BUSCH302	Chemistry Paper 2	Global	To establish an appreciation of the role of inorganic chemistry in the chemical sciences
9.	BUSCH303	Chemistry Paper 3	Local/Regional	Prepare learners for further study on academic or technical pathways and careers related to chemical reactions.
10.	BUSCHP3	S. Y. B.Sc.- Practical based on BUSCH301, BUSCH302 and BUSCH303	Global	Exposure of students to the various practical procedures like instrumental techniques, preparation of organic and inorganic compounds and analysis.
11.	BUSCH401	Chemistry - I (Physical & Analytical Chemistry)	National	Student will be able to calculate thermodynamics parameter of cell reaction and understand significance of chemical and conc. cell
12.	BUSCH402	Chemistry - II (Inorganic & Analytical Chemistry)	Global	To establish an appreciation of the role of inorganic chemistry in the chemical sciences
13.	BUSCH403	Chemistry - III (Organic & Industrial Chemistry)	Local/Regional	Giving emphasis to green chemistry by introducing renewable and nonrenewable sources of organic compound
14.	BUSCHP4	Practical based on BUSCH401, BUSCH402, and BUSCH403	Global	Exposure of students to the various practical procedures like instrumental techniques, preparation of organic and inorganic compounds and analysis.

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Sr.No.	Course Code	Title of Course	Focus	Description
15.	BUSCH501	Chemistry - I : Physical Chemistry	National/ Global	Spectroscopic studies IR and Raman spectroscopy and their applications are globally important in current research efforts in determining bond length force constant and shape of molecule.
16.	BUSCH502	Chemistry - II ; Inorganic Chemistry	National/ Global	Chemical methods of synthesis of Nanomaterials, and the importance of nanomaterials will develop scientific temperament in student fatrinity.
17.	BUSCH5P5	Practical of BUSCH501 & BUSCH502	National/ Global	Exposure of students towards skill development in the subject of physical and inorganic chemistry.
18.	BUSCH503	Chemistry - III : Organic Chemistry	Global	Study of natural products their classification structure, uses and structure determination by chemical tests will help globally to students to develop various processes.
19.	BUSCH504	Chemistry - IV : Analytical Chemistry	Global	Provide a broad and balanced chemistry education for all learners, including about the role of analytical instrumental study in the world around them.
20.	BUSCH5P6	Practical of BUSCHM503 & BUSCHM504	Global	Prepare learners who wish to pursue a practical skill in complex preparation and qualitative analysis of various compounds.
21.	BUSACDD501	Chemistry - V : Drugs & Dyes	Global	This course focuses on impart of theoretical knowledge of drugs and dyes.

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Sr.No.	Course Code	Title of Course	Focus	Description
22.	BUSACDD5P1	Chemistry - Practical II (Applied Component)	Global	This course focuses on impart of practical knowledge of drugs and dyes.
23.	BUSCHM601	Chemistry - I : Physical Chemistry	National/ Global	Various concept and its applications in applied electrochemistry are very essential.
24.	BUSCHM602	Chemistry - II : Inorganic Chemistry	National/ Global	To develop skills in the scientific method of planning, developing, conducting, reviewing and reporting experiments
25.	BUSCH6P5	Chemistry Practical I (BUSCH601 & BUSCH602)	National/ Global	Prepare learners who wish to pursue a practical skill in physical and Inorganic chemistry.
26.	BUSCHM603	Chemistry - III : Organic Chemistry	National/ Global	Solution of problems based on spectroscopy.
27.	BUSCHM604	Chemistry - IV : Analytical Chemistry	National	Study of Electro analytical technique
28.	BUSCH6P6	Chemistry Practical II (BUSCH603 & BUSCH604)	National/ Global	Prepare learners who wish to pursue a practical skill in inorganic and organic qualitative analysis.
29.	BUSACDD601	Chemistry - V : Drugs & Dyes	National/ Global	Understand the application of dyes other than textile area.
30.	BUSACDD6P1	Chemistry - Practical II (Applied Component)	National/ Global	This course focuses on impart of practical knowledge of drugs and dyes.

  
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M.Sc.				
CHEMISTRY				
Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs				
Sr.No.	Course Code	Title of Course	Focus	Description
1.	BPSCH101	Physical Chemistry	Global	Study and understand basic concepts of state function and exact differential, Maxwell thermodynamic relations and its applications.
2.	BPSCH102	Inorganic Chemistry	National	Study of chemical bonding and molecular symmetry globally.
3.	BPSCH103	Organic Chemistry	Global/National	Exposure to the study of concept of Aromaticity in detail.
4.	BPSCH104	Analytical Chemistry	Global/National	Apply the knowledge learned to all scientific data analyses during their studies  and future career-related activities.
5.	BPSCHP101	Practical I	Global	Prepare learners who wish to pursue a practical skill in physical and inorganic Chemistry.
6.	BPSCHP102	Practical II	Global	Prepare learners who wish to pursue a practical skill in organic and analytical Chemistry.
7.	BSPCH201	Physical Chemistry	Global	Analyse the effect of inhibitor on enzyme catalysed reaction.

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Sr.No.	Course Code	Title of Course	Focus	Description
8.	BSPCH202	Inorganic Chemistry	National	Recognize the general shape of the transition state using trans effect, steric effect and stereochemistry of the coordination complexes.
9.	BSPCH203	Organic Chemistry	Global	Make use of advanced application of UV, IR and NMR spectroscopy techniques in structural elucidation of molecules.
10.	BSPCH204	Analytical Chemistry	Local/Regional	Utilize GC & HPLC techniques for separation of the different components present in a sample.
11.	BSPCH2P1	Practical I	Global	Prepare learners who wish to pursue a practical skill in physical and inorganic Chemistry.
12.	BSPCH2P2	Practical II	Global	Prepare learners who wish to pursue a practical skill in organic and analytical Chemistry.
13.	BPSCHO301	Theoretical Organic Chemistry I	National	Understand photochemical reactions with special reference to cleavage of carbonyl compounds and photochemistry of olefins.
14.	BPSCHO302	Synthetic Organic Chemistry I	Global	Study of method for preparing synthetically important compounds involving radicals.

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Sr.No.	Course Code	Title of Course	Focus	Description
15.	BPSCHO303	Natural Products & Spectroscopy	Global/National	Understand the synthetic strategies towards the synthesis of important biologically active molecules.
16.	BPSCHO304	Medicinal Biogenesis & Green Chemistry	Local	To study twelve principles of Green Chemistry and study their applications in synthetic organic chemistry.
17.	BPSCHO3P1	Practical I	Global	To develop practical skill separation of organic mixture.
18.	BPSCHO3P2	Practical II	National	To develop practical skill in preparation and purification of organic compounds by various method.
19.	BSPCH401	Theoretical Organic Chemistry II	Global/National	Study of the types of Assymmetric Synthesis controlled by Chiral Auxiliary, chiral catalyst, chiral substrate and chiral reagent with examples .
20.	BSPCH402	Synthetic Organic Chemistry II	Global	Explore the applications of modern and greener methods of organic synthesis.
21.	BSPCH403	Natural Products & Heterocyclic Chemistry	Global	Study of the reactivity of various heterocyclic molecules and their importance towards synthesis of certain biologically active molecules.
22.	BSPCH404	Research methodology and introduction to Intellectual Property Rights.	Global	Gain knowledge about the application of the research-based tools.

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Sr.No.	Course Code	Title of Course	Focus	Description
23.	BPSCH4P1	Practical I	Global	Prepare learners who wish to pursue a practical skill in preparation of organic compounds.
24.	BPSCH4P2	Practical II	National	Study of interpretation of spectra and spectral data
25.	BPSCHEA301	Quality In Analytical Chemistry- I	Global	Elaborate on the concept of importance of Sampling, enhancement of signal to noise ratio, GMP and GLP.
26.	BPSCHEA302	Advanced Instrumental Techniques- I	Local/Regional	Develop a working knowledge of various Spectroscopical methods such as ESR, MB, Surface analytical techniques, ORD and CD.
27.	BPSCHEA303	Bioanalytical Chemistry & Food Analysis	Global	Apply the various analytical (microbiological techniques) learned for the analysis of these vitamins and biological macromolecules which in turn will help them in identification and diagnosis of diseases.
28.	BPSCHEA304	Environmental & Certain Industrially Important Materials	National	Evaluate the quality of potable water based on the guidelines laid down by the regulatory Bodies.
29.	BPSCHEA3P1	Practical-I	National/Global	To analyse, estimate and determine the various samples by instrumental methods.

  
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Sr.No.	Course Code	Title of Course	Focus	Description
30.	BPSCHEA3P2	Practical-II	National/Global	To analyse, estimate and determine the various samples such as ores alloys by non-instrumental /instrumental methods, water analysis.
31.	BPSCHEA401	Quality In Analytical Chemistry	National/Global	Study of appropriate method for the processing, extraction using different techniques  and standardization of the herbal materials as per WHO cGMP guidelines and concept of green chemistry, nano technology.
32.	BPSCHEA402	Advanced Instrumental Techniques- II	National/Global	Apply the basic working principles, instrumentation and application involved in the spectroscopic techniques learned  for carrying out identification and analysis of samples.
33.	BPSCHEA403	Selected Topics In Analytical Chemistry	Global	Apply the concept of recycling, reuse & reclamation in managing solid waste in real life.
34.	BPSCHEA404	Research Methodology And Introduction To Intellectual Property Rights	Global	Gain knowledge about the application of the research-based tools, patents and IPR.
35.	BPSCHEAP401	Practical I	National/Global	To analyse, estimate and determine the various samples by instrumental methods

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Sr.No.	Course Code	Title of Course	Focus	Description
36.	BPSCHEAP402	Practical II	National/Global	To analyse, estimate and determine the various samples by non-instrumental methods and research oriented project work.

## SUMMARY OF CHEMISTRY COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	23	15	02	03
PG	27	16	02	03

  
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B.Sc.				
MATHEMATICS				
Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs				
Sr.No.	Course Code	Title of Course	Focus	Description
1.	BUSMT101	Calculus-I	Global	A real number is a number that can be used to measure a continuous one-dimensional quantity such as a distance, duration or temperature.
2.	BUSMT102	Algebra-I	Global	Google Maps uses discrete 0 to determine fastest driving routes and times. There is a simpler version that works with small maps and technicalities involved in adapting to large maps.  Computers run software and store files. The software and files are both stored as huge strings of 1s and 0s. Binary math is discrete mathematics.
3.	BUSMT201	Calculus-II	Global	To calculate the profit and loss in business using graphs. To check the temperature variation. To determine the speed or distance covered such as miles per hour, kilometer per hour etc. Derivatives are used to derive many equations in Physics. In the study of Seismology, we like to find the range of magnitudes of the earthquake.
4.	BUSMT202	Linear Algebra-I	Global	Linear Algebra is used to check the distribution of microwave energy in a microwave oven.

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				<p>It is used to create ranking algorithms in search engines such as Google, Yahoo, etc.</p> <p>It is used to recover the codes that have been tampered with during processing or transmission.</p>
5.	BUSMT301	Calculus-III	Global	<p>It is used in partial differential equations and in representing functions by trigonometric series.</p> <p>It is used in measuring distance traveled by some body, as we can easily calculate the average velocity of the journey and total time by the velocity versus time graph.</p>
6.	BUSMT302	Linear Algebra-II	Global	<p>Vectors can be used by air-traffic controllers when tracking planes, by meteorologists when describing wind conditions, and by computer programmers when they are designing virtual worlds.</p>
7.	BUSMT303	Discrete Mathematics	Global	<p>It is more prevalent in numerous areas of academia, as much as industrial facets. Parts of encryption and decryption in areas of cryptography are highly applicable sections of discrete mathematics. Apart from that, computer graphics use linear algebra which is largely a vital part of discrete mathematics. It is also broadly used in storing electronic health care records.</p>
8.	BUSMT401	Calculus-IV	Global	<p>Multivariable calculus is used in many fields of natural and social science and engineering to model and study high-dimensional systems that exhibit deterministic behavior.</p> <p>In economics, for example, consumer choice over a variety of goods,</p>

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				and producer choice over various inputs to use and outputs to produce, are modeled with multivariate calculus.
9.	BUSMT402	Linear Algebra-III	Global	Eigenvalues and Eigenvectors are Stability analysis, Vibration analysis, Atomic orbitals, Facial recognition, Matrix diagonalization
10.	BUSMT403	Ordinary Differential Equation	Global	ODE is used in a variety of disciplines like biology, economics, physics, chemistry and engineering. It helps to predict the exponential growth and decay, population and species growth.
11.	BUSMT501	Multivariable Calculus	Global	Multivariable calculus is helpful in evaluating empirical data in regression analysis. In the field of finance, quantitative analysts use multivariable calculus which is helpful in predicting the future trends in the stock market. Multivariable calculus is also used to determine the 2D and 3D motion of fluid particles and streams in mechanical engineering.
12.	BUSMT502	Algebra-II	Global	Group theory algorithms are used to solve Rubik's cube. Many laws of Physics, Chemistry use symmetry and hence, uses group theory as it is symmetric. Group theory may be used to investigate any object or system attribute that is invariant under change because of its symmetry.
13.	BUSMT503	Topology of Metric Spaces	Global	Metric space methods have been employed for decades in various applications, for example in internet

  
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				search engines, image classification, or protein classification.
Sr.No.	Course Code	Title of Course	Focus	Description
14.	BUSMT5A4	Numerical Analysis I	Global	Numerical methods solve heat transfer problems by step-wise, iterative solution methods. Numerical methods can help in achieving sufficiently accurate approximate solutions for complex heat transfer equations in a faster, more accurate way.
15	BUSAC501	Computer Programming and System Analysis-I	Global/National	Scilab can be used for signal processing, statistical analysis, image enhancement, fluid dynamics simulations, numerical optimization, and modeling, simulation of explicit and implicit dynamical systems.
16.	BUSMT601	Basic Complex Analysis	Global	It is helpful in many branches of mathematics, including algebraic geometry, number theory, analytic combinatorics, applied mathematics; as well as in physics, including the branches of hydrodynamics, thermodynamics, quantum mechanics, and twistor theory. By extension, use of complex analysis also has applications in engineering fields such as nuclear, aerospace, mechanical and electrical engineering
17.	BUSMT602	Algebra-III	Global	Ring theory studies the structure of rings, their representations, or, in different language, modules, special classes of rings (group rings, division rings, universal enveloping algebras), as well as an array of properties that proved to be of interest both within the theory itself and for its applications, such as homological properties and polynomial identities.

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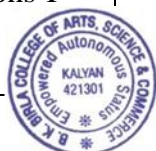
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18.	BUSMT603	Topology of Metric Spaces and Real Analysis	Global	To explore continuous functions in metric spaces and connected sets
19.	BUSMT6A4	Numerical Analysis II	Global	Numerical integration uses the same information to compute numerical approximations to the integral of the function. An important use of both types of methods is estimation of derivatives and integrals for functions that are only known at isolated points, as is the case with for example measurement data.
20.	BUSAC601	Computer Programming and System Analysis-I	Global/National	Python is known for its general-purpose nature that makes it applicable in almost every domain of software development. Python makes its presence in every emerging field. It is the fastest-growing programming language and can develop any application.
21.	BUBCOMFSI.6	Mathematics and Statistical Techniques-I	Global/National	To understand the share market and mutual funds and systematic investment plan.  To develop decision-making and problem solving skills.
22.	BUBCOMFSII.6	Mathematics and Statistical Techniques-II	Global/National	To develop problem solving skills which are useful for competitive exams, UPSC, MPSC, SSC exam and in finance.  To predict the future trend by using time series.
23.	BUCCAS506	Computer System and Applications-I	Global/National	To understand data communication and networking and Internet, My-SQL programming language and Basic of excel

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24.	BUCCAS606	Computer System and Applications-II	Global/National	To understand E-Commerce, Advance excel and Visual Basics Programming.
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<b>M.Sc.</b>				
<b>MATHEMATICS</b>				
<i>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</i>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BPSMT101	Applied Linear Algebra	Global	To understand basic concepts of Applied Linear Algebra.
2.	BPSMT102	Ordinary Differential Equations	Global	To prove Picard's theorem and solve Boundary Value problems.
3.	BPSMT103	Discrete Mathematics	Global	To define partitions of sets, partitions of numbers and permutations.
4.	BPSMT104	Real Analysis	Global	To prove Implicit function theorem and Inverse function theorem
5.	BPSMT105	Data Structure and Algorithms	Global/National	To describe substitution method, recursion-method, master method.
6.	BPSMT201	Algebra	Global	To define Ring and formal Construction of Integers and Polynomials.
7.	BPSMT202	Probability and Statistics	Global/National	To differentiate between discrete and continuous distribution function.
8.	BPSMT203	Numerical Analysis -I	Global	To explain Bisection method, Secant method, Regula-Falsi Method, Newton-

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				Raphson Method and convergence criteria for these methods.
9.	BPSMT204	Partial Differential Equations	Global	To classify second order Partial Differential Equations.
10.	BPSMT205	PYTHON Programming / C / JAVA	Global/National	To develop computer programmes to solve different types of mathematical and engineering problems.
11.	BPSMT301	Numerical Analysis-II	Global	To determine solution of boundary value problems (ODE) with finite difference scheme
12.	BPSMT302	Applied Statistics-II	Global/National	Classify hypothesis tests by type.
13.	BPSMT303	Optimization Techniques – I	Global	To understand the importance of optimization of industrial process management.
14.	BPSMT304	Foundations of Machine Learning	Global	To define “Machine Learning” and common terminology
15.	BPSMT305	Advanced Graph Theory	Global	To Evaluate Girth and Chromatic number.
16.	BPSMT401	Optimization Techniques – II	Global	To acquire a systematic understanding of optimization techniques
17	BPSMT402	Advanced Machine Learning	Global	To apply Neural Ordinary differential Equations to Strong Gravitational Lensing
18	BPSMT403	Graphs and Matrices	Global	To explore the connection between the combinatorial properties of a graph and numerical values associated with its matrix representations and vice versa.

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Sr. No.	Course Code	Title of Course	Focus	Description
19	BPSMT404	Elective V (Programming)	Global/National	Explain the use of data structure and loop functions
20	BPSMT405	Project	National	Explore practical knowledge.

## SUMMARY OF MATHEMATICS COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	24	06	-	-
PG	19	06	-	-

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**B. Sc.****INFORMATION TECHNOLOGY**

**Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2023-24) \*List out the papers that have relevance to local/national/regional/global needs**

Sr.No.	Course Code	Title of Course	Focus	Description
1.		Database Management System	Global	A DBMS provides organizations a complete, clear view into the way data is shared, ensuring there aren't unnecessary copies of data.
2.		Computer Oriented Architecture	Global	Computer Oriented Architecture refers to the design and organization of a computer system's components and their interactions to facilitate efficient processing of information and execution of tasks.
3.		Database Management System practical	Global	A DBMS provides organizations a complete, clear view into the way data is shared, ensuring there aren't unnecessary copies of data.
4.		Computer Oriented Architecture Practical	Global	Hands-on Application of Architectural Concepts in Computing Systems.
5.		Mathematical foundations of Information Science	Global	Exploring the Theoretical Basis of Information Representation and Processing.
6.		E-Commerce Technologies	Global	Systems and Tools for Online Business Transactions and Operations.
7.		Data Classroom	Global	A Learning Environment Focused on Teaching and Applying Data Science Concepts and Techniques.
8.		Introduction to programming (C++)	Global	It's widely used in industries like game development, system software, and embedded systems, offering versatile skills

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2018-2023

				highly sought after by employers in the technology sector.
9.		Understanding e-Services	Global	Exploring the Concepts and Applications of Online Electronic Services.
10.		Indian Science and Technology	Global	Evolution, Achievements, and Current Trends in India's Scientific and Technological Landscape.
11.		Technical Communication Skill	Global	Effective Conveyance of Technical Information for Various Audiences.
12.		Environmental Technology	Global	Innovations and Solutions for Sustainable Resource Management and Pollution Control.
13.		OOP with Python Programming	Global	Applying Object-Oriented Concepts in Python Language for Software Development.
14.		Operating System	Global	It provides a platform for programmes to run in. It gives users the ability to run programmes more conveniently.
15.		Computer Network	Global	Recognize the technological trends of Computer Networking.
16.		Gaming using Unity	Global	Developing Interactive Games with the Unity Game Engine
17.		Website Designing	Global	Creating User-friendly and Aesthetically Pleasing Websites for Various Purposes.

  
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Sr.No.	Course Code	Title of Course	Focus	Description
18.		Mobile Application Development	Global	Demonstrate their ability to deploy software to mobile devices.
19.		Web Programming	Global	Knowing how to create websites can help you demonstrate your skills to potential employers and help you build your personal brand
20.		Free and Open-Source Software	Global	Learning Free and Open-Source Software (FOSS) Lab subjects cultivates essential skills in navigating, customizing, and contributing to a global ecosystem of free and collaborative tools, empowering individuals with cost-effective and sustainable technology solutions.
21.		Human Values & Ethics in IT	Global	Exploring Moral and Ethical Considerations in Information Technology Practices.
22.		Book Reading and reviewing	Global	Analyzing and Providing Feedback on Various Literary Works.
23.		OOP using Java	Global	To study segmented, pipelined architecture in microprocessors.
24.		Data Structures using Python	Global	Understanding the in-depth data structures using python
25.		Operating Systems	Global	Understand benefits of cloud and virtualization. Understand differences of three types of computing: multiprocessor, multicomputer and distributed systems.
26.		Computer Oriented Statistical Techniques	Global	Drawing valid conclusion using estimation theory and proper decision using decision theory
27.		Data Structures using Python Practical	Global	Application of Inheritance and abstraction.

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28.		Modern Operating Systems Case studies	Global	Installation of Linux operating system (RedHat / Ubuntu) on virtual machine.
29.		Computer Oriented Statistical Techniques Tutorial	Global	Using R import the data from Excel / .CSV file and calculate the standard deviation, variance, co-variance.
30.		Mobile App Development using android Practical	Global	Mobile Application Development with Android and Java Practical
31.		Embedded Systems	Global	To gain knowledge of hardware & software of microcontrollers & become familiar with programming environment used to develop embedded systems
32.		Computer Graphics & Animation	Global	To gain in-depth learning of various concepts and features such as: 2D viewing, 3D viewing, perspective, lighting, and geometry
33.		Advanced Java	Global	Able to implement the concepts of Hibernate, XML& EJB for building enterprise applications.
34.		Software Engineering and Software Testing	Global	Describe software engineering layered technology and Process framework.
35.		Applied Mathematics	Global	Application of mathematical concepts with real world scenarios
36.		Embedded Systems Practical	Global	To gain hands-on practicing of microcontrollers based embedded systems & become familiar with programming.
37.		Computer Graphics & Animation Practical	Global	Programs to implement Liang - Barsky Line Clipping Algorithm
38.		Advanced Java Practical	Global	Programs to perform the Matrix addition, Multiplication and Transpose Operation. [Menu Driven]

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Sr.No.	Course Code	Title of Course	Focus	Description
39.		Software Engineering Case studies and Software Testing Practical	Global	Study and implementation of Data Flow Diagrams.
40.		Applied Mathematics Tutorial	Global	Application of mathematical concepts with real world scenarios
41.		Software Quality Assurance	Global	Compute and use various testing metrics
42.		Internet of Things	Global	Thinking and analyse Prototyping; Able to realize the revolution of Internet in Sensor Networks
43.		ASP.Net with C#	Global	Design forms using IDE and Code behind
44.		Research Methodology	Global	Promotes students for the research culture
45.		Next Generation Technologies	Global	Understanding of the basics of how MongoDB stores data.
46.		Project Dissertation	Global	Detailed Implementation and demonstration on project based on all the recent technologies.
47.		Internet of Things Practical	Global	Assures the best knowledge in selenium and testing .
48.		ASP.Net with C# Practical	Global	Audio intensity control of Power LED using Arduino
49.		Research Methodology Practical	Global	Working with Object Oriented C# and ASP .NET
50.		Next Generation Technologies Practical	Global	Enhances students to undergo research practices

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Sr.No.	Course Code	Title of Course	Focus	Description
51.		Artificial Intelligence	Global	Introduces the concepts for application of human intelligence artificially.
52.		Security in Computing	Global	Determine and analyse software vulnerabilities and security solutions to reduce the risk of exploitation.
53.		Business Intelligence	Global	Introduces the need for computerized support for managerial decision making.
54.		Principles of Geographic Information Systems	Global	Relate GIS with remote sensing technologies.
55.		Linux Administration	Global	Understand the basic set of commands and editors in Linux Operating System
56.		Project Implementation	Global	Detailed Implementation and demonstration on project based on all the recent technologies.
57.		Security in Computing Practical	Global	Configuring a Zone-Based Policy Firewall
58.		Business Intelligence Practical	Global	Power BI Desktop and its application.
59.		Principles of Geographic Information Systems Practical	Global	Data Visualization GIS and Maps.
60.		IT Service Management Case Studies	Global	To understand the professional environment in industries & how to handle services.

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M.Sc. IT				
CLOUD COMPUTING				
Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2023-24) *List out the papers that have relevance to local/national/regional/global needs				
Sr.No.	Course Code	Title of Course	Focus	Description
1.		Introduction to cloud computing	Global	Understanding the Fundamentals of Cloud-Based Services and Technologies.
2.		Data science with python	Global	To understand the basic concepts of Data Science using python programming
3.		Advanced computer networking	Global	Recognize the technological trends of Computer Networking.
4.		Entrepreneurial skills and scientific writing	Global	Developing Business Acumen and Effective Communication for the Scientific Community.
5.		Soft computing	Global	Analyse various neural network architectures.
6.		Research methodology	Global	Promotes students for the research culture
7.		Data on cloud	Global	To process the data stored on cloud framework.
8.		Big data analytics	Global	Identifying big data and its applications with Hadoop.
9.		Machine learning	Global	Develop an appreciation for what is involved in learning from data.
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Sr.No.	Course Code	Title of Course	Focus	Description
10.		Blockchain technology	Global	To develop Ethereum application using solidity
11.		Edge computing	Global	Decentralized Data Processing at the Network Periphery for Reduced Latency and Enhanced Efficiency.
12.		Cloud Management	Global	Students acquire the skills such as Problem Solving, Automation, Security Management & Scaling which can be transferred to other areas of IT & Technology
13.		Data Centre Technologies	Global	Students will have specialised knowledge and expertise in managing, optimising, and securing IT infrastructure.
14.		Cloud Application Development	Global	Students will be able to create innovative cloud-based products and services.
15.		Storage as a Service	Global	Students gain the skills in managing the cloud storage.
16.		Cloud Management Practical	Global	It involves overseeing and optimising cloud-based resources and services to ensure efficient and cost-effective operations
17.		Data Centre Technologies Practical	Global	Students will gain expertise in managing and optimising critical infrastructure for modern organisations
18.		Cloud Application Development Practical	Global	It helps students to gain technical skills, foster entrepreneurship skills by enabling scalable and cost-effective business solutions

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Sr.No.	Course Code	Title of Course	Focus	Description
19.		Storage as a Service Practical	Global	It will help students to acquire and utilise technical competencies related to cloud storage management and data handling techniques
20.		Advance IoT	Global	IOT helps to design and build systems in varied sectors
21.		Server Virtualization on VMWare Platform	Global	This technology helps students to create virtual representation of servers, storage, networks, and other physical machines.
22.		Internship	National	Students will have hands on training with respect to related courses
23.		Project	National	It will help them to apply theoretical knowledge in real world scenarios fostering practical skills and critical thinking
24.		Advance IoT Practical	Global	Gaining hands on practice on IOT and real-life implementations
25.		Server Virtualization on VMWare Platform Practical	Global	To gain Hand on practice to create virtual servers, storage, networks, and other physical machines

## SUMMARY OF INFORMATION TECHNOLOGY COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	62	-	-	-
PG	23	02		

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**M.SC.****ARTIFICIAL INTELLIGENCE**

**Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2023-24) \*List out the papers that have relevance to local/national/regional/global needs**

Sr.No.	Course Code	Title of Course	Focus	Description
1.		Computational Statistics with R	Global	Computational statistics or statistical computing focuses on the bond between statistics and computer science to transform raw data into knowledge.
2.		Foundations of Artificial Intelligence	Global	AI can help you refine topic ideas, do basic research, and choose the best words.
3.		Data Analysis using Excel and Python	Global	Leveraging Spreadsheet Software and Programming for Effective Data Interpretation and Visualization.
4.		Entrepreneurial Skills and Scientific Writing	Global	Combining Business Acumen with Effective Communication for the Scientific Community.
5.		Research Methodology	Global	Promotes students for the research culture
6.		Design Thinking OR Database Systems for Big Data	Global	"Design Thinking: Applying a Human-Centered Approach to Problem Solving and Innovation." OR "Database Systems for Big Data: Managing and Analyzing Large-Scale Data Sets for Informed Decision-Making."
7.		Modern Algorithm Design	Global	To design the algorithm for real time problems.

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Sr. No.	Course Code	Title of Course	Focus	Description
8.		Decision Modeling	Global	To model decision making policies.
9.		Machine Learning	Global	To apply statistical machine learning concepts.
10.		RPA Foundation OR Generative AI	Global	"RPA Foundation: Introduction to Robotic Process Automation for Streamlining Business Processes." OR "Generative AI: Exploring Artificial Intelligence Techniques for Creative Content Generation."
11.		Internship with Project	National	Students will have hands on training with respect to related courses.
12.		Deep Learning and Neural Networks	Global	To apply deep learning and neural network models to solve complex situations. It provides base for AI products.
13.		Vision Intelligence	Global	To apply intelligent models on visual data. It generates skills of making AI models and selling them.
14.		Internship in industry	National	Students will have hands on training with respect to related courses.

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Sr.No.	Course Code	Title of Course	Focus	Description
15.		Deep Learning and Neural Networks Practical	Global	To apply deep learning and neural network models to solve complex situations.
16.		Vision Intelligence Practical	Global	Generating skills of making AI models and selling them.
17.		Reinforcement Learning	Global	To apply game theoretic techniques to improve the skills of decision making.
18.		Natural Language Processing	Global	To process natural languages to extract knowledge.
19.		Project	National	It will help them to apply theoretical knowledge in real world scenarios fostering practical skills and critical thinking.
20.		Reinforcement Learning Practical	Global	To apply game theoretic techniques to improve the skills of decision making.
21.		Natural Language Processing Practical	Global	To process natural languages to extract knowledge.

## SUMMARY OF ARTIFICIAL INTELLIGENCE COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
PG	18	03		

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**B. VOC.****CYBER SECURITY & FORENSICS**

**Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2023-24) \*List out the papers that have relevance to local/national/regional/global needs**

Sr.No.	Course Code	Title of Course	Focus	Description
1.	BUSBVCSF11	Business Communication Skills	Global	It is crucial for effective collaboration, as it enables clear, concise conveyance of ideas and fosters professional relationships, ultimately enhancing productivity and success in the corporate world.
2.	BUSBVCSF12	Basics of Computer and Hardware Maintenance	Global	It also empowers you to make informed decisions when upgrading or purchasing new equipment, optimizing your computing experience.
3.	BUSBVCSF13	Discrete Mathematics	Global	Discrete Mathematics sharpens problem-solving skills and lays a foundational understanding for computer science, cryptography, and algorithms, forming the backbone of modern technology and information systems.
4.	BUSBVCSF14	Computer Networking	Global	It provides essential skills for troubleshooting and securing networks, which are fundamental in various IT and technology-related careers.
5.	BUSBVCSF15	C++ Programming	Global	It's widely used in industries like game development, system software, and embedded systems, offering versatile skills highly sought after by employers in the technology sector.

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Sr.No.	Course Code	Title of Course	Focus	Description
6.	BUSBVCSF16	Fundamentals of Cyber Security	Global	It empowers individuals and businesses to navigate the digital world securely, mitigating risks and fostering trust in the online environment.
7.	BUSBVCSF1P1	C++ Programming Lab	Global	Learning C++ programming provides a solid foundation for software development, enabling efficient and high-performance application creation across various domains.
8.	BUSBVCSF1P2	Discrete Mathematics Lab	Global	Discrete Mathematics sharpens problem-solving skills and lays a foundational understanding for computer science, cryptography, and algorithms.
9.	BUSBVCSF1P3	Computer Networking Lab	Global	It is crucial for understanding how data is transmitted and shared across devices and networks, enabling efficient communication and collaboration in today's interconnected world.
10.	BUSBVCSF1P4	Fundamentals of Cyber Security Lab	Global	It protects personal and organizational data from cyber threats, ensuring privacy and safeguarding against financial losses or reputation damage.
11.	BUSBVCSF21	Digital Electronics	Global	Digital Electronics provides a fundamental understanding of how electronic devices and circuits process and manipulate digital information, forming the basis for modern computing and communication systems.
12.	BUSBVCSF22	Green Computing	Global	It not only promotes sustainability but also aligns with global efforts to combat climate change, making it an essential skill for future professionals.

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Sr.No.	Course Code	Title of Course	Focus	Description
13.	BUSBVCSF23	Human Rights	Global	It cultivates empathy, critical thinking, and a commitment to upholding the dignity and well-being of all people.
14.	BUSBVCSF24	Operating Systems	Global	It provides a platform for programmes to run in. It gives users the ability to run programmes more conveniently.
15.	BUSBVCSF25	Database Management System	Global	A DBMS provides organizations a complete, clear view into the way data is shared, ensuring there aren't unnecessary copies of data.
16.	BUSBVCSF26	Web Programming	Global	Knowing how to create websites can help you demonstrate your skills to potential employers and help you build your personal brand
17.	BUSBVCSF2P1	Database Management System Lab	Global	DBMS allows organizations to enforce data security and privacy policies to reduce the risk of a data breach.
18.	BUSBVCSF2P2	Web Programming Lab	Global	To be able to deliver visually appealing websites.
19.	BUSBVCSF2P3	Digital Electronics Lab	Global	Digital Electronics provides a fundamental understanding of how electronic devices and circuits process and manipulate digital information.
20.	BUSBVCSF2P4	Operating Systems Lab	Global	To gain hands on knowledge that gives users the ability to run programmes more conveniently.
21.	BUSBVCSF31	Computer Oriented and Statistical Techniques	Global	It helps in data analysis, data science & research activities

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Sr.No.	Course Code	Title of Course	Focus	Description
22.	BUSBVCSF32	Search Engine Optimization and Digital Marketing	Global	It will help students to work in marketing, content creation, web development or any sector that requires visibility and promotion
23.	BUSBVCSF33	Free and Open Source Software (FOSS)	Global	Students will enhance their coding, software development or IT Skills
24.	BUSBVCSF34	Software Engineering	Global	It helps in gaining proficiency in programming languages, algorithms, data structures and development methodologies
25.	BUSBVCSF35	Media Content Development	Global	Students will develop skills like writing articles, producing videos, designing graphics and any other form of engaging content
26.	BUSBVCSF36	Python Programming	Global	Its simplicity and readability make it an ideal choice for both beginners and experienced developers.
27.	BUSBVCSF3P1	Free and Open Source Softwares (FOSS) Lab	Global	Learning Free and Open-Source Software (FOSS) Lab subjects cultivates essential skills in navigating, customizing, and contributing to a global ecosystem of free and collaborative tools, empowering individuals with cost-effective and sustainable technology solutions.
28.	BUSBVCSF3P2	Software Engineering Lab	Global	They cultivate crucial skills like coding proficiency, teamwork, and problem-solving, essential for success in the dynamic field of software engineering.

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Sr.No.	Course Code	Title of Course	Focus	Description
29.	BUSBVCSF3P3	Media Content Development Lab	Global	Students will develop skills like writing articles, producing videos, designing graphics and any other form of engaging content
30.	BUSBVCSF3P4	Python Programming Lab	Global	opens doors to a versatile and in-demand skill set, enabling you to efficiently solve problems, automate tasks, and build a wide range of applications across various domains, from web development to data analysis and artificial intelligence.
31.	BUSBVCSF41	Cyber Criminology	Global	To understand the psychology of cyber criminals
32.	BUSBVCSF42	Entrepreneurship	Global	It equips individuals with the skills and mindset needed to innovate, create value, and navigate the challenges of starting and growing a business, fostering economic growth and personal empowerment.
33.	BUSBVCSF43	Android App Development	Global	It hones your problem-solving and programming skills, making you a versatile developer in the ever-evolving tech industry.
34.	BUSBVCSF44	Cryptography	Global	Cryptography is essential for securing sensitive information and communications, playing a critical role in safeguarding data privacy and integrity in today's digital age.

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Sr.No.	Course Code	Title of Course	Focus	Description
35.	BUSBVCSF45	Secure Programming Practices	Global	It empowers developers to proactively identify and mitigate potential security threats, reducing the risk of breaches and enhancing overall system reliability.
36.	BUSBVCSF46	Fundamentals of Computer Forensics	Global	It is crucial for investigating and analysing digital evidence, essential in solving cybercrimes and ensuring digital security.
37.	BUSBVCSF3P1	Android App Development Lab	Global	Lab setting provides hands-on experience, fostering practical skills crucial for building real-world mobile applications, enhancing employability, and enabling innovative contributions to the mobile tech ecosystem.
38.	BUSBVCSF3P2	Cryptography Lab	Global	It enables a deep understanding of secure communication and data protection, crucial in an increasingly digital world.
39.	BUSBVCSF3P3	Secure Programming Practices Lab	Global	Learning Secure Programming Practices is crucial for developing software that is resilient to attacks, safeguarding sensitive data, and ensuring the integrity of systems in an increasingly interconnected digital landscape.
40.	BUSBVCSF3P4	Fundamentals of Computer Forensics Lab	Global	It equips individuals with essential skills to investigate digital crimes, ensuring data security and integrity in an increasingly interconnected world.



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Sr.No.	Course Code	Title of Course	Focus	Description
41.	BUSBVCSF51	Game Development	Global	Learning game development opens the door to creating interactive experiences, fostering creativity, and honing problem-solving skills in a dynamic and rapidly evolving industry.
42.	BUSBVCSF52	Wireless Security	Global	It is crucial to safeguarding sensitive information and networks from unauthorized access, ensuring privacy and preventing cyberattacks in an increasingly connected world.
43.	BUSBVCSF53	IT and Related Laws	Global	It ensures a comprehensive understanding of digital rights, privacy, and ethical considerations in the ever-evolving tech landscape.
44.	BUSBVCSF54	Information Security	Global	It ensures the protection of sensitive data and systems, safeguarding against cyber threats in an increasingly digital world.
45.	BUSBVCSF55	Software Forensics and Vulnerability Analysis	Global	Software Forensics and Vulnerability Analysis, equip individuals with the skills to detect, investigate.
46.	BUSBVCSF56	Ethical Hacking	Global	Ethical Hacking, equip individuals with the skills to detect, investigate, and mitigate security breaches, crucial in maintaining a secure technological landscape.
47.	BUSBVCSF57	Internship	National	Students will have hands on training with respect to related courses
48.	BUSBVCSF61	Malware Analysis	Global	Malware analysis equips individuals with crucial skills to dissect and understand malicious software, enabling them to defend against cyber threats effectively.

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Sr.No.	Course Code	Title of Course	Focus	Description
49.	BUSBVCSF62	Security Audit	Global	It ensures the ability to identify and mitigate vulnerabilities in systems and networks, safeguarding against cyber threats and potential breaches.
50.	BUSBVCSF63	Artificial Intelligence in Security	Global	Learning Artificial Intelligence in Security enhances the ability to detect, analyse, and respond to sophisticated cyber threats, fortifying defences against evolving attacks.
51.	BUSBVCSF64	Security Operations Center	Global	It is crucial for effectively monitoring and responding to cyber threats, safeguarding critical systems, and ensuring organizational resilience against cyberattacks.
52.	BUSBVCSF65	Offensive Security	Global	It is crucial for understanding and defending against cyber threats, as it provides insights into the tactics and techniques used by attackers, enabling better protection of digital assets and networks.
53.	BUSBVCSF66	Operating System and Mobile Forensics	Global	Learning Operating System Forensics provides essential skills for analysing uncovering security breaches, crucial for cybercrime investigations. Mobile Forensics equips individuals with expertise in extracting and analysing data from mobile devices, vital for solving crimes, uncovering digital evidence.
54.	BUSBVCSF67	Project	National	Students have hands on training.

  
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**NAAC SSR**

**Cycle IV**

**2018-2023**

**SUMMARY OF B.VOC CYBER SECURITY COURSES**

	Global Needs	National Needs	Regional Needs	Local Needs
UG	52	02		

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M.Sc.				
DATA SCIENCE & BIG DATA ANALYTICS				
Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2023-24) *List out the papers that have relevance to local/national/regional/global needs				
Sr.No.	Course Code	Title of Course	Focus	Description
1.		Applied Statistics with Excel and R	Global	Practical Application of Statistical Concepts using Spreadsheet and Programming Language.
2.		Data Modelling and Visualization	Global	Transforming Raw Data into Understandable Patterns for Informed Decision-Making.
3.		Data on Cloud	Global	To process the data stored on cloud framework.
4.		Entrepreneurial Skills and Scientific Writing	Global	Combining Business Acumen with Effective Communication for the Scientific Community.
5.		Basics of Data Science with Python OR Design Thinking	Global	"Basics of Data Science with Python: Introduction to Data Analysis and Machine Learning using Python." OR "Design Thinking: Applying a Human-Centered Approach to Problem Solving and Innovation."
6.		Research Methodology	Global	Promotes students for the research culture
7.		Practical Approach to Data Mining & Analytics	Global	Hands-On Techniques for Extracting Insights and Patterns from Data.

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2018-2023

Sr.No.	Course Code	Title of Course	Focus	Description
8.		Machine Learning	Global	Develop an appreciation for what is involved in learning from data.
9.		Optimization and Simulation for Data Science	Global	Applying Mathematical Techniques and Simulated Scenarios to Enhance Data-Driven Decision-Making.
10.		Advance Data Structures and algorithm OR Sentiment, Web and Text Analytics	Global	"Structures and Algorithm: Fundamentals of Data Structures and Algorithmic Problem Solving."  OR "Sentiment, Web, and Text Analytics: Analyzing Sentiments and Extracting Insights from Web and Text Data."
11.		Internship with Project	National	Students will have hands on training with respect to related courses
12.		Deep Learning	Global	Implementation of Deep learning algorithm.
13.		SPSS Programming	Global	Understanding the application of SPSS software and developing skills of analytics
14.		Internship in industry	National	Students will have hands on training with respect to related courses
15.		Deep Learning Practical	Global	Hands on Practice on deep learning algorithm
16.		SPSS Programming Practical	Global	Understanding the application of SPSS software and developing skills of analytics.

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Sr.No.	Course Code	Title of Course	Focus	Description
17.		Ethics and Governance issues in Big Data	Global	It is crucial to ensure responsible and transparent handling of sensitive information, safeguarding privacy, and avoiding potential harm to individuals or communities while harnessing the power of data for societal benefit.
18.		Applied Artificial Intelligence	Global	Applied Artificial Intelligence empowers you to create practical solutions for real-world problems, from automating tasks to enhancing decision-making, revolutionizing industries, and driving innovation in the digital age.
19.		Project	National	Students have hands on training.
20.		Ethics and Governance issues in Big Data Case Study	Global	To apply and handle ethics and governance issues on Big Data
21.		Applied Artificial Intelligence Practical	Global	To develop skills of applying AI

**SUMMARY OF M.SC. DATA SCIENCES & BIG DATA ANALYSIS COURSES**


	Global Needs	National Needs	Regional Needs	Local Needs
PG	18	03		

  
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<b>B.Sc.</b>				
<b>COMPUTER SCIENCE</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BUSCS101	Computer Organization and Design	Local, Regional	Knowledge Enhancement about computer designing and structure.
2.	BUSCS102	Programming with Python	National, Global	Knowledge Enhancement about python programming
3.	BUSCS103	Programming with C	National	To prepare the students to learn code pf C
4.	BUSCS104	Database System	National, Global	Knowledge Enhancement about Database Management System
5.	BUSCS202	Programming with Python - II	National, Global	Knowledge Enhancement about python programming
6.	BUSCS203	Linux	National, Global	The study of specific operating system and knowledge enhancement
7/	BUSCS302	Core Java	National, Global	To develop problem solving skills in the field of programming
8.	BUSCS303	Fundamentals of Algorithm	Local	To develop problem solving skills in the field of programming
9.	BUSCS304	Database Management Systems	National, Global	Knowledge Enhancement about Database Management System

  
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Sr.No.	Course Code	Title of Course	Focus	Description
10.	BUSCS401	Advanced JAVA	National, Global	To prepare students with programming language JAVA
11.	BUSCS402	Computer Networks	Local	To get knowledge about networking
12.	BUSCS403	Software Engineering	Local, Regional	Knowledge enhancement about reworking the things
13.	BUSCS501	Artificial Intelligence	National, Global	To build the techniques of AI
14.	BUSCS502	Software Testing and Quality Assurance	Local, Regional	To learn the and enhance the testing techniques

<b>M.Sc.</b>				
<b>COMPUTER SCIENCE</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
Sr. No.	Course Code	Title of Course	Focus	Description
1.	BPSCS101	Analysis of Algorithms & Researching Computing	Local	Knowledge enhancement to help the students prepare for research
2.	BPSCS102	Advanced Networking Concepts	National, Global	The students are able to analyze networking concept
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Sr.No.	Course Code	Title of Course	Focus	Description
3.	BPSCS103	Advanced Database Systems	National, Global	Knowledge Enhancement about To develop analytical, technical, leadership skills, decision-making skill, amongst students to solve management issues
4.	BPSCS104	Robotics and Artificial Intelligence	National, Global	The study of concepts of robotics and enhancement inspiring the students to become analyst.
5.	BPSCS202	Design and Implementation of Modern Compilers	Local, Regional	Study of implementation of data set.
6.	BPSCS2031	Elective-I (Track A : Cloud Computing)	National, Global	To study the practical oriented subjects in field of technology.
7.	BPSCS2032	Elective-I (Track B : Cyber and Information)	National, Global	To study the practical oriented subjects in field of technology.
8.	BPSCS301	Ubiquitous Computing	Local	Exposure of Students to the study of
9.	BPSCS302	Social Network Analysis	Local, Regional	To develop networking skills amongst the students.
10.	BPSCS3031	Cloud Computing II	National, Global	To develop critical thinking skills about the process and To study the practical oriented subjects in field of technology.
11.	BPSCS3034	Machine Learning II	National, Global	To develop critical thinking skills about the process and To study the practical oriented subjects in field of technology.



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Sr.No.	Course Code	Title of Course	Focus	Description
12.	BPSCS401	Simulation and Modelling	Local	Learn the skill of simulation and modulation.
13.	BPSCS4021	Specialization - Track A: Cloud Computing - III	National, Global	To develop critical thinking skills about the process and To study the practical oriented subjects in field of technology.
14.	BPSCS4022	Specialization - Track B: Cyber and Information Security - II	National, Global	To develop critical thinking skills about the process and To study the practical oriented subjects in field of technology.

## SUMMARY OF COMPUTER SCIENCE COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	08	09	03	05
PG	09	09	02	05


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<b>B. Sc.</b>				
<b>BIOTECHNOLOGY</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr. No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BUSBT103	Basic Life Science-I	Global	Study of the importance of biodiversity and the various life forms on earth
2.	BUSBT104	Basic Life Science-II	Global	Elaborative study on sterilization, microbial cultivation, and visualization
3.	BUSBT105	Biotechnology-I	Global	Exposure of students to scope and applications of biotechnology
4.	BUSBT106	Biotechnology-II	Global	Exposure of students to genetics, chromosomal disorders, and basic biostatistics
5.	BUSBT 107	Ability Enhancement Course I	National	Studies related to Indian society and disparity associated with it and study of Indian constitution
6.	BUSBT203	Basic Life Science-I	Global	Study of prokaryotic and eukaryotic cell organization and division
7.	BUSBT204	Basic Life Science-II	Global	Studies related to plant and animal physiology along with studies associated with nutrient and biogeochemical cycles

  
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Sr.No.	Course Code	Title of Course	Focus	Description
8.	BUSBT205	Biotechnology-I	Global	Exposure of students with basic concepts of immunology, about different types of immunity and microbial genetics
9.	BUSBT206	Biotechnology-II	Global	Study of various model organisms in biology, prokaryotic and eukaryotic replication, DNA mutations and repair
10.	BUSBT207	Ability Enhancement Course II	National	Exposure of students the Indian society and the concepts of Human rights, Ecology and sustainable development
11.	BUSBT304	Cell biology and cytogenetics	Global	Study of of the cytoskeleton and cell membrane, structure of chromosomes
12.	BUSBT305	Molecular biology	Global	Study of the mechanisms associated with gene expression at the level of transcription and translation and its regulation
13.	BUSBT306	Applied Microbiology	Global	Study of different forms of air, soil and water pollutants and study soil ecosystem and different biogeochemical cycles
14.	BUSBT307	Food Nutrition, Food Adulteration and Food Preservation	Global	Exposure of students to the concept of nutrition and different ways to detect contaminants in food

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Sr.No.	Course Code	Title of Course	Focus	Description
15.	BUSBT404	Environmental Biotechnology	Global	Study of the causes, types and control methods for environmental pollution and concept of bioremediation
16.	BUSBT405	Bioprocess technology	Global	Study of principles underlying design of fermenter and fermentation
17.	BUSBT406	Applied Biotechnology	Global	Exposure of students to PTC and ATC, and to various statistical tools
18.	BUSBT407	Entrepreneurship development	Global	Study of the systematic process of selection and screening of a business idea
19.	BUSBT502	Medical Microbiology and Instrumentation	Global	Study of virus life cycle, concept of chemotherapeutic drugs, spectroscopy, and bioanalytical techniques
20.	BUSBT503	Genomics and Molecular Biology	Global	Exposure of students to the concept of transgenic plants and animals, and to the various molecular biology tools
21.	BUSBT504	Marine Biotechnology	Global	Exposure of students to the concept of marine biotechnology and bioprospecting
22.	BUSBT505	Applied component- EVS   Principal B. K. Birla College of Arts, Science & Commerce (Autonomous), Kalyan.	Global  	Study of various approaches of sustainable development, study of biodiversity and environmental management

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Sr.No.	Course Code	Title of Course	Focus	Description
23.	BUSBT602	Industrial Microbiology	Global	Study of fundamentals of dairy technology and downstream processing for various industrially important products
24.	BUSBT603	Agri-Biotechnology	Global	Study of construction & features of greenhouse technology, plant stress biology, molecular markers, biofertilizers and biopesticides
25.	BUSBT604	Environmental Biotechnology and bioinformatics	Global	Study of renewable sources of energy, wastewater treatment technology along with studies related to bioinformatics
26.	BUSBT605	Applied component - Biosafety	Global	Study of biosafety in labs and good laboratory practices

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Cycle IV

2018-2023

M. Sc.				
BIOTECHNOLOGY				
Curriculum with focus on employability/entrepreneurship/ skill development				
Sr.No.	Course Code	Title of Course	Focus	Description
1.	BPSBT103	Molecular biology	Global	Study of gene expression in prokaryotic and eukaryotic cells, concept of genomics and proteomics
2.	BPSBT104	Biochemical techniques and Biosafety	Global	Exposure of students with various microscopic, histochemical, and immunological techniques
3.	BPSBT203	Research Methodology and Biostatistics	Global	Exposure of students to the concept of research methodology, interpretation of report writing and biostatistics
4.	BPSBT204	Biophysical techniques and IPR	Global	Study of Intellectual property rights and exposure of students with various spectroscopic, chromatographic, and radiosopic techniques
5.	BPSBT301	Nanotechnology and Environmental Biotechnology	Global	Study of the concepts Nano and Nanobiotechnology
6.	BPSBT302	Bioinformatics	Global	Exposure of students with various bioinformatics tools
7.	BPSBT401	Plant Tissue Culture and Animal Tissue Culture	Global	Study the biology of cultured cells, media and vessels used, how contamination occurs and cryopreservation of cells.
8.	BPSBT402	Medical Microbiology and Developmental Biology	Global	Study the various chromosomal disorders and functions and applications of microbial biofilms
9.	BPSBT403	Clinical Studies	Global	Studies related to clinical trials, drug discovery and drug design
10.	BPSBT404	Applied biotechnology and Soft Skills Development	Global	Study of various industrial applications of enzymes, polysaccharide, nutraceuticals, antibiotics and vitamins along with preparation and quality control of vaccines and immunoglobulins, toxoids

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## SUMMARY OF BIOTECHNOLOGY COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	24	02		
PG	10			

  
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<b>M.Sc.</b>				
<b>BIOANALYTICAL SCIENCE</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2022-23) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BPSBN101	Medicinal systems, Pharmacology and Laboratory Safety	Global/National	Study of medicinal systems across the globe.  Study of the Laboratory working principles.
2.	BPSBN102	Indian Pharmaceutical Industry and its Quality Management -I	Global/National	Exposure pharmaceutical industry and guidelines related to it as per different countries.
3.	BPSBN103	Phytochemistry & Extraction techniques	National	Study of extraction techniques
4.	BPSBN104	Evaluation and identification of biomolecules	National	Study of techniques of proteins analysis.
5.	BPSBN201	IPR and Patenting, Spectroscopy	Global/National	Study of universal patent methods
6.	BPSBN202	Indian Pharmaceutical Industry and its Quality Management -II	Global/National	Exposure pharmaceutical industry and guidelines related to it as per different countries.

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Sr.No.	Course Code	Title of Course	Focus	Description
7.	BPSBN203	Analytical techniques	Global	Study of analytical techniques used in pharmaceutical industries all over the world.
8.	BPSBN204	Research methodology and Biostatistics	Global/National	Study of research problems and problem solving skills
9.	BPSBN301	Basic Microbiology & Genomics	National	Exposure of students to microbiological and molecular biology techniques.
10.	BPSBN302	Spectroscopy and Nanotechnology	Global/National	Study of techniques of sample analysis using mass spectroscopy. Nanotechnology drugs
11.	BPSBN303	Standardization of ASU drugs & Neutraceuticals	Global/National	Exposure of students to Quality control methods and testing of ASU Drugs
12.	BPSBN304	Toxicology & BA/ BE Studies	National	Understand BA BE studies protocol used in India.
13.	BPSBN401	Method Development , Techniques of Bioanalysis & Data Management	National	Study of techniques used in drug analysis and data management
14.	BPSBN402	Drug Development and clinical research	Global/National	Study of procedure of Drug development and clinical trials all over the world.
15.	BPSBN403	Industrial Training	Local	Exposure of Students to pharmaceutical working environment.
16.	BPSBN404	Industrial Training	Local	Exposure of Students to pharmaceutical working environment.

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## SUMMARY OF BIOANALYTICAL COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
PG	09	13		02

  
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<b>M.Sc.</b>				
<b>ENVIRONMENTAL SCIENCE</b>				
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<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BPSEVS101	Ecology and Ecosystem	Global/Regional/Local	Study of ecological systems.  Practical based on local and regional ecosystem analysis.
2.	BPSEVS102	Biodiversity	Global/National	Explore global and national status of biodiversity and its conservation measures
3.	BPSEVS103	Environment and Natural Resource	Global/National	Study of global climate patterns and status of resources
4.	BPSEVS104	Environmental Pollution	Global/National	Study of environmental pollution.
5.	BPSEVS201	Instrumentation and Biostatistics	National	Study of sampling of environmental samples and its biostatistical analysis
6.	BPSEVS202	Pollution Control Technology	National	Study of treatment of environmental pollutants
7.	BPSEVS203	Environmental Monitoring and Research Methodology	National	Study of sampling techniques used. Incorporation of research skills to solve environmental problem nationally.
8.	BPSEVS204	Environmental Policies and Regulations	Global/National	Study of environmental laws and regulations nationally.

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Sr. No.	Course Code	Title of Course	Focus	Description
9.	BPSEVS301	Environmental Toxicology and Health	National	Exposure of students environmental health and toxicology.
10.	BPSEVS302	Green Technology and Remote Sensing/Geographical Information System	Global/National	Study of techniques of RS/GIS and green technology
11.	BPSEVS303	Environmental Biotechnology	Global/National	Exposure of students to biotechnological and nanotechnological approach in remediating pollution.
12.	BPSEVS304	Industrial Hygiene and Chemical Safety	National	Understand industrial hygiene and safety used in India.
13.	BPSEVS401	Environmental Impact Assessment, Clearance and Auditing	National	Study of techniques used in environmental management
14.	BPSEVS402	Climate Change and Restoration	Global/National	Study of Climate Change and Restoration globally
15.	BPSEVS403	Sustainable Management	Global/National	Study of sustainable management globally
16.	BPSEVS404	Environmental Management	Global/National	Study of environmental management globally

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## SUMMARY OF ENVIRONMENTAL SCIENCE COURSE

	Global Needs	National Needs	Regional Needs	Local Needs
PG	10	15	01	01


  
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<b>B.Sc. (Hons.)</b>				
<b>INTERIOR DESIGN</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BUID102	Residential Interior Design	Regional	In this course, the students are introduced to planning and designing a small residence. They will get an understanding of different user needs for residential interiors, planning & design basics and learn drafting methods of interior spaces based on standard and optimum dimensions of interior elements with consideration to anthropometrics.
2.	BUID103	History of Design - Ancient Civilization	Regional	Through this course the students can relate how the evolution of civilization impacted modern civilizations and current trends. They will be able to evaluate the contribution of various civilizations and their influence on current trends in interior design today.
3.	BUID203	History of Design - Trends & Movements	Global	The course covers the design eras, examples of designers and architectures.
4.	BUID407	Environmental Studies	Local	The course enables the students to present field survey reports. The reports are created on visits to NGOs, Sanctuaries/National Parks, Ecotourism.

  
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Sr.No.	Course Code	Title of Course	Focus	Description
			National	The students will get an in-depth knowledge of climate Change and ecological imbalance, effects., policies related to climate change, health management in India. They will be able to define waste management including meaning, problems, and case studies of Indian metro cities like Mumbai, Pune, Bangalore, Delhi, Chennai.
			Global	The students will be able to get an understanding of climate change, ecological imbalance, effects, policies related to climate change and health management in India.
7.	BUID301	Interior Design for Boutique	Local	The student will be able to get an understanding of learning of different types of retail spaces, branding, merchandise & present findings in terms of users, activities, context etc
8.	BUID303	Technical Drawing for Villas & Bungalow	Local, Regional, National & Global	Students will focus on detailed drawings for furniture. staircase & service block that can be useful around the globe.
9.	BUID307	Selling Skills	Local	Unit IV focuses on learning to put forth ideas articulately in front of large groups and participation in debates on various topics.
10.	BUID401	Interior Design for Clubhouse	Local	The student will be able to get an understanding of learning and preparing design based on internal areas

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Sr.No.	Course Code	Title of Course	Focus	Description
11.	BUID403	Technical Drawing for Boutique	Local	Students will make working drawings for their Semester IV, Boutique design project showing furniture layout and integrated furniture details with all dimensions and proper presentation.
12.	BUID404	Basics of Plumbing & HVAC System	Local	Learning detailed mechanical services such as fresh air supply and ventilation for residential & commercial projects and calculate heat load will give them in-depth knowledge about the module.

## SUMMARY OF INTERIOR DESIGNING COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	03	02	03	07

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Cycle IV

2018-2023

B.M.S. (Hons.)				
EVENT MANAGEMENT & PR				
Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2022-23) *List out the papers that have relevance to local/national/regional/global needs				
Sr.No.	Course Code	Title of Course	Focus	Description
1.	BUEM102	Human Resource Management	Local, National, Regional	The unit focuses on industrial relations and trade unions that enhances the learning based on regional, local and national development.
2.	BUEM103	Introduction to Accounts & Finance	Local, Regional	It helps to maintain proper records of event and planning of budget
3.	BUEM105	Business Communication – I	National/Regional	It helps to do communication process easy at all the levels
4.	BUEM201	Event Planning & Venue Management	Local, National, Regional	In tis students can learn how to plan and manage event at all levels
5.	BUEM203	Marketing Management	National	Sports Laws in India helps to understand the national needs.
6.	BUEM302	Event Hospitality & Catering	Global/National	Learn about the world of hospitality and its evolution in various regions of the world
7.	BUEM306	Selling Skills	Local, National, Regional	It helps to understand selling skill at all levels
8.	BUEM401	Legal Aspects of Event Management	Local/Regional	Learn about the permissions required for open ground events and auditorium shows

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2018-2023

M.Sc				
EVENT MANAGEMENT				
Curriculum with focus on employability/ entrepreneurship/ skill development				
Sr.No.	Course Code	Title of Course	Focus	Description
1.	BPEM102	Event Management Planning	Local, Regional	In this students are learning how to plan an event at all levels , with proper guideline
2.	BPEM105	Human Resource Management	Local, National, Regional	The unit focuses on industrial relations and trade unions that enhances the learning based on regional, local and national development.
3.	BPEM204	Event Cost Accounting & Finance Management	Local, Regional	It helps to maintain propr records of event and planning of budget
4.	BPEM208	Selling Skills	Local, National, Regional	It helps to understand selling skill at all levels
5.	BPEM303	Event Hospitality & Catering	Global/National	Learn about the world of hospitality and its evolution in various regions of the world
6.	BPEM304	Legal Aspects of Event Management	Local/Regional	Learn about the permissions required for open ground events and auditorium shows
7.	BPEM305	E-Commerce & Digital Marketing	Local, National, Regional	It help to promot and sale he business at all levels
8.	BPEM401	Tourism Marketing	Global	The unit of Designing Sports Tourism Events assists the need of Global Development.

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## SUMMARY OF EVENT MANAGEMENT COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	01	06	06	05
PG	02	04	06	06

  
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BMS (Hons.)				
SPORTS MANAGEMENT				
Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs				
Sr.No.	Course Code	Title of Course	Focus	Description
1.	BUSM101	Fundamentals of Sports & New Age Dynamics	National, Global	The course covers a very important topic on Roles and Functions of National/ International Sports Organisations which supports National and Global Development needs.
2.	BUSM204	Human Resource Management	Local, National, Regional	The unit focuses on industrial relations and trade unions that enhances the learning based on regional, local and national development.
3.	BUSM202	Sports Facilities Planning & Management	Local, National, Regional, Global	<p>The two units of Facility Development and Planning &amp; Facility Site and Design assists the local and regional development needs. Planning for existing and future facilities enhances Global and National development.</p> <p>Development of sports arena, grounds, indoor stadiums, tents, camps etc &amp; critical phase of Facility Management helps in catering to local development needs.</p>
4.	BUSM201	Management of Sports Leagues & Teams	Local, Regional, National	<p>The unit focuses on the Non-profit Sector and Society, the sports club environment and issues of the non-profit sports sector. The students learn the factors influencing the structure and challenges of a Sports Organization.</p> <p>Governing Bodies of Sport</p>

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Sr.No.	Course Code	Title of Course	Focus	Description
5.	BUSM203	Sports Equipment & Technology Management	National	Sociological and financial influence and the role government
6.	BUSM301	Sports & Entertainment Marketing	Local, Regional	Key concepts of location- based entertainment.
7.	BUSM302	Sports Funding & Financial Management	Local	Unit of Business Structures in Sports covers topics like Non-profit organizations, Sole proprietorships, Limited liability partnerships, Private limited companies, Taxation issues in sports business focused on the needs of local development.
8.	BUSM304	Sports Event Management	Local, National, Regional, Global	Unit of Event Conceptualization and Planning Process- SWOT analysis, Event Planning Process, identifying sponsors; Event Management Commercials-Stages of Budgeting process, Cash flow and management, identifying revenue streams assists Local, Regional, National & Global Development needs.
9.	BUSM401	Sports Law & Risk Management	National, Global	Sports Law and Regulation in India and Indian Contract Act' 1872.
10.	BUSM402	Global Sports Tourism	Global	The unit of Designing Sports Tourism Events assists the need of Global Development.

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*(Conducted by Kalyan Citizens' Education Society)*

*Affiliated to University of Mumbai*

*'College of Excellence' status by UGC (2015 - 2020)*

*Reaccredited by NAAC (3<sup>rd</sup> Cycle) with 'A' Grade (CGPA - 3.58) (2014 - 2023)*

*ISO 9001: 2015 Certified*

**NAAC SSR**

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Sr.No.	Course Code	Title of Course	Focus	Description
11.	BUSM405	Brand Management	National, Global	Indianisation of Foreign brands & global issues & challenges faced by the brands.

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M.Sc.				
SPORTS MANAGEMENT				
Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs				
Sr.No.	Course Code	Title of Course	Focus	Description
1.	BPSM101	Fundamentals of Sports & New Age Dynamics	National, Global	The course covers a very important topic on roles and functions of National/ International Sports Organisations which supports National and Global Development needs.  Encouragement provided by the government to the poor for participating in sports at national level.
2.	BPSM102	Management of Sports Leagues & Teams	Local, Regional	The topic of the role of the state in sports development assists Regional development needs. The entire unit of the Non-Profit sector enhances and supports Local and Regional development needs.
3.	BPSM103	Sports Facilities Planning & Management	Local, National, Regional	The two units of Facility Construction and Planning & Facility Site and Design assists the local and regional and national development needs.
4.	BPSM105	Sports Equipment & Technology Management	National	Sociological and financial influence and the role of government. Adherence to NBC (national building code) that

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				focuses on development of national needs.
5.	BPSM201	Sports & Entertainment Marketing	National	Sports Laws in India helps to understand the national needs.
			Local, Regional and National	Location based entertainment helps to work towards Local, Regional and National needs.
6.	BPSM202	Sports Funding & Financial Management	Local	Unit of Business Structures in Sports covers topics like Non-profit organizations, Sole proprietorships, Limited liability partnerships, Private limited companies, Taxation issues in sports business focused on the needs of local development.
7.	BPSM205	Sports Event Management	Local, National, Regional, Global	Unit of Event Conceptualization and Planning Process- SWOT analysis, Event Planning Process, identifying sponsors; Event Management Commercials-Stages of Budgeting process, Cash flow and management, identifying revenue streams assists Local, Regional, National & Global Development needs.
			National	Sports Tourism and sports events in India including growth, challenges and future of sports events in India.
8.	BPSM303	Sports Law & Risk Management	National, Global	Sports Law and Regulation in India and Indian Contract Act' 1872 enhances National and Global Development needs.

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Sr. No.	Course Code	Title of Course	Focus	Description
9.	BPSM304	Global Sports Tourism	Global	The unit of Designing Sports Tourism Events assists the need of Global Development.
10.	BPSM403	International Sports Management	Global	The entire course focuses and assists the needs of Global Development with special focus on strategic management in international sports, sport in North America, sport in Europe, sport in Asia and Oceania and International sports events.

## SUMMARY OF SPORTS MANAGEMENT COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	06	08	05	06
PG	05	08	04	05

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<b>B.Sc. (Hons.)</b>				
<b>INTEGRATIVE NUTRITION &amp; DIETETICS</b>				
<b>Curriculum and its relevance to local/national/regional/global needs (under the revised curriculum of 2018-19) *List out the papers that have relevance to local/national/regional/global needs</b>				
<b>Sr.No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Focus</b>	<b>Description</b>
1.	BUIND103	Community Nutrition-I	Local, National, Regional	The students are taught about Nutritional Intervention Programmes that support local, regional and national needs.
			Global	The module makes the student aware of international organizations and voluntary services assisting the needs of global development
2.	BUINDP106	Community Nutrition II Practicals	Local	Visit local health centers
3.	BUIND203	Community Nutrition II	Local	Unit IV focuses on different activity conducted to benefit our community – eg Different organizations / clubs that can be open to benefit the community and pros of cons of each that the students come up with eg laughter clubs, gyms and park
4.	BUIND409	Environmental Studies	National	The modules make the students aware of the issues of waste management. It also gives an idea about meaning, problems and case studies of Indian metro cities like Mumbai, Pune, Bangalore, Delhi, Chennai. The students will conduct field survey by visiting NGOs, Sanctuaries/National Parks, ecotourism
			Local, Regional	Visits to NGOs, Sanctuaries, ecotourism.
			Global	It helps the students to understand the terms like energy, resource conservation and pollution.

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Sr.No.	Course Code	Title of Course	Focus	Description
5.	BUIND301	Introduction to Food Planning	Local, Regional	The students are taught about Meal planning for adult male and female using food exchange list, calorie and protein and carb counting. This will give them local and regional exposure.
6.	BUIND304	Food Processing & Preservation - I	National	The unit will give knowledge about the suitable methods of preservation with special reference to our country.
7.	BUIND305	Communication and Counselling Skills - II	Local, Regional	The module makes the learners understand the influence of counseling on disease management and identify components of counselling skills and to provide skills of counselling for specific disease conditions. The learners will be able to provide nutrition counseling and education to individuals and groups using a variety of communication strategies.
8.	BUIND308	Practical Training/Internship	Local	During this semester the learner will have to undergo training outside the institute, in such offices / organizations which will give the learner the necessary opportunity to improve and consolidate his/her knowledge in the marketing profession.
9.	BUIND407	Food Processing And Preservation -II	National, Global	The student gets in depth knowledge to examine the different preservation techniques used in the industry and understand food adulteration and international standards.
10.	BUINDP405	Food Processing And Preservation -II Practicals	Local	Visit to Food processing unit and food industry
11.	BUIND404	Nutrition across Lifecycle	Local, Regional	The module gives understanding of the growth and development and nutritional requirements during pregnancy and lactation to promote healthy living in the community, and nutritional requirement of school going children and adolescents
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Sr.No.	Course Code	Title of Course	Focus	Description

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12.	BUINDP406	Nutrition across Lifecycle Practicals	Local, Regional	Student should be able to apply the principles of meal planning for different health conditions to promote healthy living in the community
13.	BUIND408	Entrepreneurship & Management	National, Global	The modules helps the learners to identify stakeholders, and team members through networks to prioritize market in real-world projects

## SUMMARY OF INTEGRATIVE NUTRITION COURSES

	Global Needs	National Needs	Regional Needs	Local Needs
UG	04	05	06	10

  
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