

Criterion - 1

Curricular Aspects

NAAC-SSR (2nd Cycle)



ETERNAL UNIVERSITY

BARU SAHIB, SIRMOUR-173101

HIMACHAL PRADESH

1.1.1(5)

Curricula have Relevance to the Global Developmental Needs



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List of the Courses have Relevance to the Global Developmental Needs

S.No.	Course Name	Course Code	Programme Name	Component have relevance to the Global developmental needs
1	Advance Human Resource Management	MGMT 604	Ph.D. Management	Advances Human Resource Management equips students to understand the diverse global workforce challenges and fosters a deep understanding about the cultural nuances and cross-border management practices.
2	Advances in Marketing Management	MGMT 602	Ph.D. Management	This course fosters a deep understanding of market trends, consumer behaviour and emerging technologies, enabling students to devise robust marketing strategies that resonate across cultures and regions.
3	Global Business Environment	MGMT 605	Ph.D. Management	This course equips students with the knowledge and skills to navigate complexities, foster international collaborations and understand the opportunities in an increasingly interconnected world.
4	Environmental Economics	ECON 512	M.Sc. Economics	This course allows to use economic techniques to analyse environmental problems and to assess environmental policies around the world.
5	Agriculture Marketing	ECON 514	M.Sc. Economics	This course foster a deep insight of practises involved in agriculture marketing and its impact on world economy.
6	Globalization and Development	ECON 508	M.Sc. Economics	This course provides understanding of the economic causes and consequences of globalisation and development

7	Contemporary Issue in Indian and World Economy	ECON 510	M.Sc. Economics	This course develops a chronological understanding of the development of economic thought Relate the developments in different schools of thought with contemporary issues.
8	Taxation Policy	COM 607	Ph.D. Commerce	This course develops a understanding of compute taxable income and tax liabilities of companies related to national and international level.
9	labor law	BC 308	B.Sc. Commerce	This course develops an understanding of constitutional provisions and industrial relations legislation relating to Labour at National and International level.
10	Renewable Energy Lab-I	MSRE 516	M.Sc. Renewal Energy	This course develops an understanding of all the renewable energy sources available at National and International level.
11	Renewable Energy Lab-II	MSRE 526	M.Sc. Renewal Energy	This course develops an understanding of all the renewable energy sources available at National and International level.
12	Fuels Cells & Hydrogen Energy	MSRE 524	M.Sc. Renewal Energy	This course develops an understanding of identifying different routes for hydrogen production and its storage.
13	Renewable Energy & Sustainable Development	MSRE 534B	M.Sc. Renewal Energy	This course develops an understanding of all the renewable energy sources available at National and International level.
14	Energy Conservation and Management	MSRE 534E	M.Sc. Renewal Energy	This course foster a knowledge about apply energy conservation policy, regulations in industrial practices.
15	Renewable Energy and Green Technology	RE-202	B.Sc. (Hons.) Agriculture	This course develops an understanding of all the renewable energy sources available at National and International level.

16	Energy and Environment	PGDRE 101	PG Diploma in Renewable Energy (PGDRE)	Understand the relationships between natural resources, consumption, population, economics of consumerism, etc in an environmental context.
17	Environmental Education	EDU- 441	B.Ed.	Fosters awareness, behavior change, interdisciplinary learning, problem-solving skills, stewardship values, resilience, and advocacy, addressing global environmental needs effectively.
18	Life Skills Education	EDU- 442	B.Ed.	Equips individuals with essential abilities such as critical thinking, communication, decision-making, and resilience, enabling them to navigate challenges and lead fulfilling lives.
19	Health and Physical Education	EDU- 444	B.Ed.	Promotes physical fitness, healthy lifestyles, and well-being through exercise, nutrition education, and stress management, fostering lifelong habits for optimal health.
20	Industrial Microbiology	MICRO-221	B.Sc. (Hons.) Microbiology	The syllabus teaches industrial microbiology, including microbe sourcing, fermentation, and downstream processing. It equips students to meet local, national, and global biotech needs, preparing them for roles in food, healthcare, and other industries.
21	Pharmaceutical Microbiology	MICRO-318	B.Sc. (Hons.) Microbiology	The syllabus covers pharmaceutical microbiology, including microbial products, production processes, antibiotics, and drug development. Through practical experiments like isolating antibiotic-producing bacteria and studying drug sterilization, students gain hands-on experience in pharmaceutical production, preparing them for roles in drug discovery and regulatory compliance.

22	Biofertilizers and Biopesticides	MICRO-327	B.Sc. (Hons.) Microbiology	The syllabus covers biofertilizers, their advantages over chemical fertilizers, and practical techniques for their production and application. Through hands-on experiments, students gain skills in isolating beneficial microbes and preparing biofertilizer formulations, equipping them for roles in sustainable agriculture locally and globally.
23	Research Methodology	RM-599	All M.Sc. Courses having thesis	The syllabus encompasses various aspects of research, including types, prioritization, ethics, and practical skills like literature review and data analysis. Students learn about good laboratory practices, statistical techniques, and computer applications relevant to research. Through practical exercises and guidance on research paper writing, they develop essential skills for a career in research, addressing current needs and future prospects in scientific inquiry.
24	Analytical Techniques in Plant Sciences	BOT-524	M.Sc. Botany	The syllabus covers diverse analytical techniques in plant sciences, including microscopy, spectroscopy, chromatography, and molecular biology methods. Through practical applications and safety protocols, students gain essential skills for plant research and biotechnology roles, meeting the demand for skilled professionals in this field worldwide.
25	Biofertilizer Technology	BOT-542	M.Sc. Botany	This course offers knowledge of eco-friendly alternatives to chemical fertilizers, crucial for national food security, revolutionization of agriculture and environmental sustainability.

26	Bioinformatics & Biostatics	BOT-534	M.Sc. Botany	This course equips students with the tools to analyse biological data, driving research breakthroughs crucial for addressing national and global challenges in plant genetics, agriculture practices and biodiversity conservation efforts.
27	Adult Health Nursing II with integrated pathophysiology including Geriatric Nursing + Palliative care module	N-AHN (II)225	B.Sc. Nursing (BSN)	The course content of adult health nursing with integrated pathophysiology including Geriatric Nursing and palliative care module have global importance and need of the society at globally.
28	Field Visit and Exploratory Physics	PHY-535	M.Sc. Physics	This is a practical course which include field visits and activities those have relevance to the Global needs
29	Medical Physics	PHY-547	M.Sc. Physics	The course content include the interaction of radiation with matter, Biological Effects of radiation, Nuclear Medicine, Nuclear Energy Power from Fission which have relevance to the Global needs
30	Nano Physics	PHY-544	M.Sc. Physics	The course content include types of Nanomaterials and their Properties, nanomagnetism, Quantum Wells, Wires, and Dots, Synthesis of nanomaterials which have relevance to the Global needs as per the practical importance of nanomaterials Globally.
31	Nuclear Technology	PHY-546	M.Sc. Physics	Understanding of Nuclear based technologies has relevance to the Global needs as per the practical importance of these technologies Globally.
32	Optoelectronics	PHY-542	M.Sc. Physics	Optoelectronics and technologies based on optoelectronics has relevance to the Global needs as per the practical importance of these technologies Globally.

33	Particle Accelerator Physics	PHY-543	M.Sc. Physics	Understanding of Particle Accelerator has relevance to the Global needs as per the practical importance of these technologies Globally.
34	Fiber Optics and Non-Linear Optics	PHY-548	M.Sc. Physics	The course content include optical fibre and its properties; Optics of anisotropic media; Electro-optic and acousto-optic effects and modulation of light beams and description of Non-linear optics/processes which have relevance to the Global needs
35	Project	PHY-550	M.Sc. Physics	This course is designed to provide practical exposure to the students about ongoing research in basic and applied areas of Chemistry globally. It will impart skills on planning, performing, analyzing and data interpretation of experiments.
36	Science of Renewable Energy Sources	PHY-541	M.Sc. Physics	The course content of science of Renewable energy sources include Global energy demand and needs. It also include various renewable technologies those are being used world wide.
37	Environmental Chemistry	CHEM-541	M.Sc. Chemistry	This course is designed to aware students for the importance of the environment, unhealthy practices that cause its depletion and remedial actions to protect it. Students are also sensitized about some global disasters like Bhopal gas tragedy, Chernobyl, Three-mile Island, Minamata disease, London smog etc.

38	Pesticides & Fertilizers	CHEM-542	M.Sc. Chemistry	This course is designed to lay emphasis on adapting greener pesticides in agricultural practices like use of plants like neem water extract for plant protections, use of Neem extract for pest control, natural organic manures such as Farmyard manure, compost and vermicompost, methods of applications of organic manures to increase soil fertility. These all practices are essential for the Global Sustainability
39	Project Work	CHEM-549	M.Sc. Chemistry	This course is designed to provide practical exposure to the students about ongoing research in basic and applied areas of Chemistry globally. It will impart skills on planning, performing, analyzing and data interpretation of experiments.
40	Botanical Excursion & Field Botany	BOT 525	M.Sc. Botany	This course offers hands-on experience in taxonomic identification of plant species and their ecological roles. It also empowers with knowledge to appreciate and protect natural floral heritage, fostering a deeper connection to the environment.
41	Biodiversity and Conservation	BOT EC 543	M.Sc. Botany	This elective course provides essential knowledge and skills to safeguard ecosystems and protect endangered species, raise awareness about conservation issues, addressing both national and global biodiversity crises.

42	Project Report	BOT EC 593	M.Sc. Botany	Project report allows students to consolidate their learning, apply theoretical knowledge to practical situations, and demonstrate their understanding of the subject matter. By tackling real-world problems through these projects, students contribute to addressing national and global challenges, fostering innovation, and generating solutions that benefit society at large.
43	Dissertation	BOT EC 600#	M.Sc. Botany	This elective course allows students to conduct in-depth research through scientific inquiry and innovative solutions on current botanical issues, contributing valuable insights to address both national and global challenges in plant science.
44	Plant Resource Utilization	BOT-515	M.Sc. Botany	This course optimizes botanical resources for economic growth, food security, medicine, and industry, benefiting both national prosperity and global resource management initiatives.
45	Project Work	ZOO-500*	M.Sc. Zoology	Project allows students to consolidate their learning, apply theoretical knowledge to practical situations, and demonstrate their understanding of the subject matter. By tackling real-world problems through these projects, students contribute to addressing national and global challenges, fostering innovation, and generating solutions that benefit society at large.

46	Life Skill & Mental Health	PSYD 604	Ph.D. Psychology	The global need for courses focusing on life skills and mental health is driven by the increasing prevalence of mental health concerns, the demands of modern lifestyles and the workforce, globalization, and the recognition of the importance of preventative measures for overall well-being and quality of life.
47	Ethics in Research & Publication	PSYD 607	Ph.D. Psychology	Ethics in research and publication are essential for upholding the principles of integrity, honesty, and respect in the pursuit of knowledge. By adhering to ethical guidelines, researchers contribute to the credibility, reliability, and impact of scientific inquiry on a global scale.
48	Computer Application	PSYD 608	Ph.D. Psychology	Computer applications are essential tools that drive innovation, efficiency, connectivity, and global access to information. They empower individuals, businesses, and organizations to succeed in the digital age.
49	Geriatric Psychology-Implications of Old Age	PSYH 204	Ph.D. Psychology	Geriatric psychology focuses on meeting older adults' psychological, social, and emotional needs for successful aging and improved quality of life. By offering targeted interventions and understanding the implications of aging, geriatric psychologists globally enhance the well-being and dignity of older adults and their families.

50	Policies and Programme for Elderly	PSYH 304	Ph.D. Psychology	Policies and programs for the elderly are crucial for addressing diverse needs, promoting healthy aging, and upholding rights worldwide. Prioritizing their well-being fosters age-friendly environments and enables older individuals to thrive and contribute to communities.
51	Insect and Environment	ZOO-525	M.Sc. Zoology	The syllabus covers entomology, focusing on insects' diverse roles in agriculture, ecology, and public health. It addresses national and global needs by teaching students about insect management techniques like apiculture and biological control, as well as their significance in food production and pollution control.
52	Environmental Botany	BOT-524	M.Sc. Botany	The syllabus covers environmental issues like solid waste management, biodiversity conservation, ozone depletion, and global warming. Students learn about conservation strategies, weed ecology, and environmental laws, preparing them to address local and global environmental challenges effectively.
53	Environmental Microbiology	MICRO-534	M.Sc. Microbiology	The syllabus covers microbiota, microbial interactions, biogeochemical cycling, waste management, and water quality, addressing national and global environmental sustainability needs.

54	Environmental Science	EVS-301	B.Sc. Medical B.Sc. Non-Medical B.A. Humanities B.Sc. Psychology B.Tech CSE B.Sc. (Hons) Microbiology B.A. Music B.Com (Hons) B.Sc. Economics	The syllabus covers crucial environmental topics like resource management, pollution control, biodiversity conservation, and disaster management, emphasizing individual and collective action for sustainable practices, addressing national and global environmental challenges.
55	Natural Resource & Environmental Economics	AGECON-506	M.Sc. Agricultural Economics	The syllabus of this course allows the student to understand the importance of natural resource and their valuable impact around the globe.
56	Business Environment	BC-106	B.Com (Hons)	The syllabus of this course enable the students to deal and understand the dynamics of business and its environment at national and global level.
57	Environmental Microbiology	MICRO-223	B.Sc. (Hons) Microbiology	The syllabus covers microbiota, microbial interactions, biogeochemical cycling, waste management, and water quality, addressing national and global environmental sustainability needs.
58	Plant Ecology and Environment	BOT-314	B.Sc. Medical	The syllabus covers ecosystem dynamics, biogeochemical cycles, population and community ecology, ecological succession, and adaptations. It also explores freshwater, marine, and estuarine ecology, aiding in environmental monitoring and contributing to global conservation efforts.

59	Resource and Environmental Economics	ECON 304	B.Sc. (Hons) Economics	The syllabus of this course allows the student to understand the importance of natural resource and their valuable impact around the globe.
60	Environmental Biotechnology	BT-523	M.Sc. Biotechnology	The course content include the applications of biotechnology to environmental conservation and management worldwide
61	Ecology and Environment Biology	ZOO-111	B.Sc. Medical	The syllabus covers ecosystem dynamics, biogeochemical cycles, population and community ecology, ecological succession, and adaptations. It also explores freshwater, marine, and estuarine ecology, aiding in environmental monitoring and contributing to global conservation efforts.
62	Business Environment	MBA-504	MBA	The syllabus of this course enable the students to deal and understand the dynamics of business and its environment at national and global level
63	Environment and Occupational Health	PH-533	MPH	Addresses global needs by mitigating environmental risks, promoting workplace safety, and safeguarding public health through policies, research, and interventions.
64	Global Business Environment	MGMT-605	Ph.D. Management	The syllabus of this course design I such a way that student will learn about the importance and significance of global trade and also students will learn about the foreign direct investment.
65	Business Environment	BC-106	B.Com. (Hons.)	The syllabus of this course enable the students to deal and understand the dynamics of corporate culture and business environment at national and global level

66	Business Environment	BBA-103	BBA	The syllabus of this course enable the students to deal and understand the dynamics of business and its environment at national and global level
67	Transgenic Plants	BT-517	M.Sc. Biotechnology	The objective of this course is to introduce students to the basic biological concepts, methodologies and issues associated with transgenic crop plants.
68	Biosystematics and Biodiversity	BT-525	M.Sc. Biotechnology	The course content include historical background about classification, nomenclature, ecosystem and biodiversity.
69	Renewable Energy and Green Technology	RE-202	B.Sc. (Hons) Agriculture	The course content of science of Renewable energy and green technology include various renewable and green technologies those are being used world wide for sustainable development.
70	Science of Renewable Energy Sources	PHY-534	M.Sc. Physics	The course content of science of Renewable energy sources include Global energy demand and needs. It also include various renewable technologies those are being used world wide.
71	Agronomy of Cereals, Pulses, Fodder and Green Manure Crops	AGRON-504	M.Sc. Agronomy	The course content of Agriculture Microbiology allows the students to experience hands on training on production of cereals and pulses. The students will also know the use of fodder and green manure crops.
72	Agricultural Microbiology	MICRO-101	B.Sc. (Hons) Agriculture	The course content of Agriculture Microbiology allows the students to experience hands on training on various agriculture products that can meet national and international requirement.

73	Industrial Microbiology	FT-523	M.Sc. Food Technology	The course content of Industrial Microbiology allows the students to experience hands on training on production of various global products that mske huge impact on economy.
74	Medical and Diagnostic Microbiology	MICRO-526	M.Sc. Microbiology	The syllabus covers medical microbiology, including infectious disease history, diagnostic methods, and antibiotic resistance. It addresses national and global needs by preparing students to diagnose and treat bacterial, viral, fungal, and parasitic diseases, contributing to public health efforts locally and globally.
75	Prokaryotic Microbiology	MICRO-521	M.Sc. Microbiology	By studying bacteria and archaea, the syllabus addresses key environmental challenges by exploring microbial roles in nutrient cycling, bioremediation, and ecosystem functioning, contributing to our understanding of ecological processes and sustainable environmental management practices on both national and global scales.
76	Soil Microbiology and Bioremediation	MICRO-222	B.Sc. (Hons) Microbiology	The syllabus covers soil microbiology, including microbial roles in nutrient cycles, nitrogen fixation, and bioremediation. It addresses national and global needs by preparing students to understand and harness soil microbes for sustainable agriculture practices and environmental remediation efforts, contributing to food security and ecological restoration initiatives.
78	Food Microbiology	FST-502	M.Sc. Food Science & Technology	The course content of Food Microbiology allows the students to experience hands on training on quality assessment of food that allows them to stand as food analyst at global level.

79	General Microbiology	FST-452	M.Sc. Food Science & Technology	The course content of General Microbiology allows the students to know the basic concepts of general properties of microorganisms that can be utilize for the for important microbial products at global level.
80	General Microbiology	MICRO-101	B.Tech. Food Technology	The syllabus covers microbiology essentials, including microbial structure, growth, control methods, and antibiotic resistance. It addresses national and global needs by providing vital knowledge for healthcare, agriculture, and environmental management, aiding in disease control and ensuring food safety worldwide.
81	Industrial Microbiology	FT-204	B.Tech. Food Technology	Industrial microbiology plays a critical role in addressing national developmental needs by enhancing food production, safety, and sustainability. Through the application of beneficial microorganisms, it enables the large-scale fermentation processes essential for producing dairy products, beverages, and food additives, improving both quality and nutritional value. Additionally, industrial microbiology helps develop bio-preservatives and probiotics, extending shelf life and boosting food security.
82	General Microbiology	MICRO-511	M.Sc. Zoology M.Sc. Microbiology	The syllabus covers microbiology essentials, including microbial structure, growth, control methods, and antibiotic resistance. It addresses national and global needs by providing vital knowledge for healthcare, agriculture, and environmental management, aiding in disease control and ensuring food safety worldwide.

83	Industrial Microbiology	MICRO-531	M.Sc. Microbiology	The syllabus covers industrial microbiology, including fermentation processes, downstream processing, and enzyme immobilization. Students learn about microbial sources, fermentation parameters, and industrial products like ethanol and enzymes, preparing them for roles in biotechnology industries.
84	Food Microbiology	MICRO-532	M.Sc. Microbiology	The syllabus covers food microbiology, including factors affecting microbial growth in foods, food preservation methods, fermentations, and food-borne diseases. Students learn about physical and chemical methods of preservation, fermentation processes, and food safety laws, preparing them for roles in ensuring food quality and safety in the food industry.
85	Recent Advances in Microbiology and Biotechnology	MICRO-533	M.Sc. Microbiology	This course impart knowledge about the role of microbes in biotechnological applications and prepares students to tackle challenges related to microbes in healthcare, agriculture, and environment.
86	Recent Advances in Food and Industrial Microbiology	MICRO-534	M.Sc. Microbiology	This course provides knowledge about the role and applications of microbes in food industries, prepares students to address related risks and challenges at both national and global levels.
87	Agricultural Microbiology	MICRO-102	B.Sc. (Hons.) Agriculture	The course content of Agriculture Microbiology allows the students to experience hands on training on various agriculture products that can meet national and interntional requirement.

88	Food Microbiology	FT-102	B.Tech. Food Technology	The syllabus covers food microbiology, including factors affecting microbial growth in foods, food preservation methods, fermentations, and food-borne diseases. Students learn about physical and chemical methods of preservation, fermentation processes, and food safety laws, preparing them for roles in ensuring food quality and safety in the food industry.
89	Recent Advances in Applied Microbiology	MICRO-603	Ph.D. Microbiology	The syllabus covers key organizations and resources in microbiology, including ICNP, BMSAB, and LPSN. It explores extraordinary microbes, microbial cell factories, and novel microbial groups and processes, preparing students for roles in microbiological research and industry.
90	Advanced Medical Microbiology & Immunology	MICRO-606	Ph.D. Microbiology	The syllabus covers international and Indian health regulatory bodies like WHO and MoHFW. It explores antimicrobial resistance, vaccines, and therapies such as stem cell therapy and monoclonal antibodies. Students learn about detection systems, rapid diagnostic kits, and ongoing research in public health, preparing them for roles in healthcare and pharmaceutical industries.
91	Cropping System and Sustainable Agriculture	AGRON-505	M.Sc. Agronomy	This course focus on developing innovative practices to enhance agricultural productivity, resilience, and environmental sustainability worldwide.
92	Farming System & Sustainable Agriculture	AGRON-203	B.Sc. (Hons) Agriculture	This course focus on promoting integrated farming practices that enhance productivity, conserve resources, and ensure environmental sustainability globally.

93	Introductory Agro-meteorology & Climate Change	AGRON-204	B.Sc. (Hons) Agriculture	This course focus on equipping future agricultural professionals with knowledge to mitigate and adapt to climate change impacts on farming systems worldwide.
94	Human Values & Professional Ethics	EDU-101	B.Sc. Medical B.Sc. Non-Medical B.Sc. (Hons) Economics B.A. Music B.Sc. (Hons) Microbiology B.Sc. Psychology B.Sc. (Hons) Agriculture B.Tech. CSE B.Com. (Hons) BBA	The syllabus covers universal human values, professional ethics, and strategies for societal transition, addressing the national and global need for moral education and social cohesion.
95	Human Resource Management	MBA-508	MBA	Studying Advances in Human Resource Management equips students to understand the diverse global workforce challenges and fosters a deep understanding about the cultural nuances and cross-border management practices.
96	Plant & Human Welfare	BOT-315	B.Sc. Medical	This syllabus addresses national and global needs by covering topics like wood preservation, spice cultivation, and crop management. It supports sustainable forestry practices, diverse industries, food security, and equips learners to combat crop diseases for environmental protection and global food security.
97	Advanced Human Resource Management	COM-604	Ph.D. Commerce	Studying Advances in Human Resource Management equips students to understand the diverse global workforce challenges and fosters a deep understanding about the cultural nuances and cross-border management practices.

98	Human Resource Management	BC-205	B.Com.	This course allows the students to learn the principles of HR development foundation that is essential to organization development.
99	Advance Human Resource Management	MGMT-604	Ph.D. Management	Studying Advances in Human Resource Management equips students to understand the diverse global workforce challenges and fosters a deep understanding about the cultural nuances and cross-border management practices.
100	Child Health Nursing	NA	B.Sc. Nursing	This course ensuring the provision of comprehensive, high-quality care to improve health outcomes and development for children worldwide.
101	Child and adolescent Development	PSYH-303	B.Sc. Psychology	Child and Adolescent Development is globally important because it provides the knowledge and tools necessary to support healthy growth, learning, and well-being in children and adolescents. By investing in their development, societies can foster thriving individuals and create a more equitable and sustainable future.
102	Reproductive, Maternal Health, Child Health, And Adolescent	PH-531	MPH	Ensuring access to comprehensive healthcare services, promoting healthy pregnancies, safe childbirth, child development, and adolescent well-being, thus reducing maternal and child mortality rates worldwide.
103	Intellectual Property Rights	IPR-301	B.Sc. (Hons) Agriculture	This course impart knowledge about protecting innovations and ensuring equitable access to agricultural advancements to promote sustainable development and food security worldwide.
104	Social and Behaviour Change, Effective Communication in Health Care	PH-528	MPH	Fostering positive health behaviors, enhancing patient-provider communication, and improving health outcomes through targeted interventions and strategic messaging.

105	Governance, Ethics & Social Responsibility	BC-307	B.Com (Hons)	This course fosters a deep understanding of the legal and regulatory frameworks governing corporate governance practices and their relationship to ethical conduct.
106	Advanced Social Psychology	PSYM-504	M.Sc. Psychology	Advanced Social Psychology is globally important for its role in understanding cultural diversity, addressing social issues, promoting collaboration, informing public policy, fostering global citizenship, enhancing relationships, and contributing to overall well-being and social change.
107	Principles of Social Research Methods and Biostatstics	PH-523	MPH	Providing tools to conduct rigorous research, analyze health data, and inform evidence-based interventions, thus improving health outcomes and policy decisions worldwide.
108	Social Psychology	PSYH-222	B.Sc. Psychology	Social Psychology is globally significant for understanding cultural influences on behavior, addressing social issues, promoting collaboration, informing policy, fostering global citizenship, enhancing relationships, and contributing to well-being and social change.
109	Teaching of Social Sciences	EDU-426	B.Ed.	Fostering critical thinking, empathy, and cultural understanding among future educators. It equips them to address social issues, promote global citizenship, and cultivate respect for diverse perspectives, thus preparing students to navigate a complex and interconnected world.
110	Governance, Ethics & Social Responsibility of Business	BC-306	B.Com. (Hons)	This course allows the student to learn the significance of ethics and CSR in the day to working of an organization and learn the basic principles of good governance in a multiorganization.

111	Rural Sociology and Educational Psychology	EXT-101	B.Sc. (Hons) Agriculture	This course fostering community development and improving educational strategies to enhance the adoption of sustainable agricultural practices and rural livelihoods Globaly.
112	Gender, School and Society	EDU-415	B.Ed.	Addressing gender inequality in education, promoting inclusive classrooms, and fostering awareness of social constructs. Educators equipped with this knowledge can create supportive environments that empower all students, regardless of gender, to thrive academically and socially, thus contributing to a more equitable and just society on a global scale.
113	Gender and Health	RMNCH+A	MPH	This course focus on addressing health disparities and promoting gender equity to improve health outcomes and wellbeing for all populations.
114	Teaching of Social Science	EDU-412	B.Ed.	Equipping educators to cultivate critical thinking, promote civic engagement, and foster empathy and understanding of societal issues among students. By instilling these skills and values, educators play a vital role in preparing future generations to actively participate in addressing global challenges and promoting social justice and sustainable development.
115	Teaching of Social Sciences	EDU-426	B.Ed	Nurturing critical thinking, promoting cultural understanding, and fostering informed citizenship among students. By imparting knowledge of history, geography, economics, and sociology, educators empower individuals to engage meaningfully with complex societal issues, fostering a more informed and empathetic global community.

116	Governance, Ethics & Social Responsibility of Business	BC-306	B.Com (Hons)	This course fosters a deep understanding of the legal and regulatory frameworks governing corporate governance practices and their relationship to ethical conduct.
117	Biosafety, Bioethics and IPR	BT-515	M.Sc. Genetics & Plant Breeding M.Sc. Horticulture M.Sc. Biotechnology	The course content include the knowledge of biosafety and bioethical issues related to biotechnology and giving information about intellectual property rights.
118	Business Communication and Professional Ethics	ENG-112	B.Com. (Hons) BBA	Develops a basics of business environment, organisational management and communication theory at National and International level.
119	Law and Ethics in Public Health	PH-534	MPH	Ensuring the protection of human rights, promoting equity, and guiding policy development. By understanding legal frameworks and ethical principles, public health professionals can navigate complex health challenges, uphold standards of justice, and advocate for policies that prioritize the well-being of populations worldwide.
120	Policy components and evaluation of public health programs	PH-529	MPH	Ensure effective implementation, measure outcomes, and inform evidence-based decision-making, crucial for addressing global health challenges and improving population health outcomes.
121	Translating research for health Policy and advocacy	PH-530	MPH	Bridges the gap between evidence and action, informing policy decisions and advocating for interventions that improve public health outcomes on a global scale.
122	Industrial Relations and Labour Legislations	MBAH-515	MBA	This course develops an understanding of the various factors as part of the industrial relations and understand the labor laws, issues and implications.

123	Introduction to Health System and Policy in Developing Countries	PH-520	MPH	Equips students with an understanding of the unique challenges, structures, and policy frameworks in global health contexts, fostering informed interventions to improve healthcare access and outcomes.
124	Labour Laws	BC-308	B.Com. (Hons)	The curriculum provides understanding about labour laws which are important for global needs.
125	Corporate Law	BC 203	B.Com. (Hons)	This course provides information about general administration of Company Law including Corporate Structure. Have knowledge about Dividend Distribution, Accounts, Audits and Liquidation of Companies.
126	Integral equation and Transform	MATH554	M.Sc. Mathematics	Studying Integral Equations and Transforms aligns with global developmental needs by equipping individuals with advanced mathematical techniques to model and solve complex, cross-border challenges. This knowledge is crucial for addressing global issues such as climate change, resource management, and international finance. The course empowers students to contribute to the development of innovative, scalable solutions that can be applied across different regions, supporting sustainable progress and the achievement of global development goals.

127	Operations Research	MATH568	M.Sc. Mathematics	<p>Studying Operations Research aligns with global developmental needs by providing individuals with the analytical tools to optimize decision-making and resource allocation across various sectors. This knowledge is crucial for addressing complex, large-scale challenges that transcend national boundaries, such as supply chain management, logistics, and sustainable development. The course equips students with the skills to develop and implement data-driven, evidence-based solutions that can be applied globally, contributing to the achievement of worldwide developmental goals.</p>
128	Stochastic Processes	MATH576	M.Sc. Mathematics	<p>Studying Stochastic Processes aligns with global developmental needs by equipping individuals with the ability to model and analyze complex, uncertain systems that transcend national boundaries. This knowledge is valuable for addressing global challenges such as climate change, pandemic response, and international finance. The course empowers students to develop innovative, data-driven solutions that can be applied across different regions, supporting sustainable progress and the achievement of worldwide developmental goals.</p>
129	Translating research for health Policy and advocacy	PH-530	MPH	<p>Communicating scientific findings effectively to policymakers and stakeholders, influencing policy decisions, and advocating for evidence-based interventions to address public health challenges and promote positive health outcomes.</p>

130	Medical Surgical Nursing (Adult Including Geriatrics) – I	NA	B.Sc. Nursing (BSN)	Preparing nurses to provide comprehensive care to adult and elderly populations. They learn to address prevalent health issues, manage chronic diseases, promote health literacy, and advocate for equitable access to healthcare, thereby improving health outcomes worldwide.
131	Medical Surgical Nursing (Adult Including Geriatrics) – I Practical	NA	B.Sc. Nursing (BSN)	Enables students to apply theoretical knowledge in real-world clinical settings. They gain hands-on experience in assessing, planning, and implementing nursing care for adult and elderly patients, honing their clinical skills and preparing them to meet the diverse healthcare needs of these populations globally.
132	Community Health Nursing – I	NA	B.Sc. Nursing (BSN)	Equips students with skills to provide primary healthcare in diverse community settings. They learn to assess community needs, promote health education, and implement preventive interventions, addressing global health challenges and improving population health outcomes.
133	Community Health Nursing – I Practical	NA	B.Sc. Nursing (BSN)	Allows students to apply theory in community settings. They gain hands-on experience in health promotion, disease prevention, and providing care within diverse populations, preparing them to address global health disparities and promote well-being in communities worldwide.

134	Medical Surgical Nursing (Adult Including Geriatrics) II	NA	B.Sc. Nursing (BSN)	Builds upon foundational knowledge to address complex healthcare needs of adult and elderly patients. Students learn advanced assessment skills, management of acute and chronic conditions, and interdisciplinary collaboration, preparing them to deliver comprehensive care globally and adapt to evolving healthcare landscapes.
135	Medical surgical Nursing (Adult & Geriatrics) II Practical	NA	B.Sc. Nursing (BSN)	Provides hands-on experience in caring for adult and geriatric patients with acute and chronic conditions. Students apply theoretical knowledge in clinical settings, honing assessment, intervention, and critical thinking skills to deliver quality care, preparing them to address diverse healthcare needs globally.
136	Child Health Nursing	NA	B.Sc. Nursing (BSN)	Provide specialized care for infants, children, and adolescents. They learn about growth and development, common pediatric illnesses, and family-centered care, equipping them to promote child health and well-being globally.
137	Child Health Nursing – Practical	NA	B.Sc. Nursing (BSN)	Apply theoretical knowledge in clinical settings focused on pediatric care. Through hands-on experience, they learn to assess child health, provide age-appropriate interventions, and collaborate with families, preparing them to deliver competent and compassionate care to children globally.

138	Mental Health Nursing	NA	B.Sc. Nursing (BSN)	Provide holistic care for individuals experiencing mental health challenges. They learn therapeutic communication, psychiatric assessment, and interventions to promote mental wellness, equipping them to address mental health needs globally.
139	Mental Health Nursing – Practical	NA	B.Sc. Nursing (BSN)	Through hands-on experience, they learn therapeutic communication techniques, crisis intervention strategies, and collaborative approaches to support individuals with mental health disorders, preparing them to deliver compassionate and effective care in diverse global contexts.
140	Midwifery & Obstetrical Nursing	NA	B.Sc. Nursing (BSN)	Provide comprehensive care for women throughout the childbirth process. They learn about prenatal care, labor and delivery, postpartum care, and newborn care, equipping them to support maternal and infant health globally.
141	Midwifery & Obstetrical Nursing – Practical	NA	B.Sc. Nursing (BSN)	Hands-on experience, they learn essential skills such as prenatal assessments, labor support, delivery assistance, and postpartum care, preparing them to provide competent and compassionate care to women and infants during childbirth globally.
142	Community Health Nursing – II	NA	B.Sc. Nursing (BSN)	Address complex community health issues. Students learn about population-based interventions, disease prevention, health promotion, and community assessment, preparing them to address diverse health needs and promote wellness globally.

143	Community Health Nursing – II Practical	NA	B.Sc. Nursing (BSN)	Through hands-on experience, they learn to assess community health needs, plan and implement health promotion activities, collaborate with local stakeholders, and evaluate the effectiveness of interventions, preparing them to address global health disparities and promote well-being in communities worldwide.
144	Nursing Foundation I including First Aid module	N-NF (I) 125	B.Sc. Nursing (BSN)	Essential knowledge and skills for nursing practice. They learn about basic nursing principles, healthcare ethics, communication, and patient safety, as well as first aid techniques for emergency situations. This foundation prepares them to deliver competent and compassionate care to patients in various healthcare settings, contributing to improved health outcomes globally.
145	Nursing Foundation II including Health Assessment module	N-NF (II) 125	B.Sc. Nursing (BSN)	Builds upon foundational knowledge and skills essential for nursing practice. Students learn advanced nursing concepts, health assessment techniques, and diagnostic skills, enabling them to conduct comprehensive patient assessments and develop individualized care plans. This prepares them to deliver high-quality healthcare and contribute to improved patient outcomes globally.

146	Adult Health Nursing I with integrated pathophysiology including BCLS module	N-AHN (I) 215	B.Sc. Nursing (BSN)	Focuses on providing care to adult patients with acute and chronic illnesses. Students learn about the underlying disease processes, nursing interventions, and emergency management, including BCLS techniques. This integrated approach prepares them to deliver competent and timely care, ensuring better health outcomes for adult patients globally.
147	Adult Health Nursing II with integrated pathophysiology including Geriatric Nursing + Palliative care module	N-AHN (II) 225	B.Sc. Nursing (BSN)	Focuses on advanced care for adult patients with complex health needs. Students learn about the pathophysiology of common adult illnesses, specialized care for geriatric patients, and principles of palliative care. This comprehensive approach prepares them to provide holistic and compassionate care to adult patients, including older adults and those with terminal illnesses, contributing to improved quality of life and dignity in healthcare globally.
148	Child Health Nursing I including Essential Newborn Care (ENBC), FBNC, IMNCI and PLS, modules	N-CHN(I) 301	B.Sc. Nursing (BSN)	Providing comprehensive care to infants and children. Students learn about newborn care, assessment and management of common childhood illnesses, and pediatric emergency care. This integrated approach prepares them to deliver skilled and compassionate care to pediatric patients, contributing to improved child health outcomes globally.

149	Mental Health Nursing I	N-MHN(I) 305	B.Sc. Nursing (BSN)	Focuses on foundational knowledge and skills for providing mental health care. Students learn about mental health disorders, therapeutic communication techniques, and interventions for promoting mental well-being. This prepares them to support individuals experiencing mental health challenges with empathy and competence, contributing to improved mental health outcomes globally.
150	Community Health Nursing I including Environmental Science & Epidemiology	N-COMH(I) 310	B.Sc. Nursing (BSN)	Emphasizes the connection between environmental factors and public health. Students learn about environmental risks, disease transmission patterns, and population-based interventions. This integrated approach prepares them to address community health issues, promote environmental sustainability, and prevent diseases, contributing to improved population health outcomes globally.
151	Child Health Nursing II	N-CHN(II) 301	B.Sc. Nursing (BSN)	Builds upon foundational knowledge to address advanced pediatric care. Students learn about complex pediatric conditions, pediatric pharmacology, and family-centered care approaches. This prepares them to provide specialized and compassionate care to pediatric patients, contributing to improved child health outcomes globally.

152	Mental Health Nursing II	N-MHN(II) 305	B.Sc. Nursing (BSN)	Advances students' understanding and skills in caring for individuals with mental health disorders. They learn about psychiatric assessment, therapeutic interventions, and psychiatric pharmacology. This equips them to provide comprehensive and evidence-based care to individuals with mental illness, promoting recovery and well-being globally.
153	Midwifery/Obstetrics and Gynaecology (OBG) Nursing I including SBA module	N-MIDW(I) / OBGN 335	B.Sc. Nursing (BSN)	Focuses on providing comprehensive care to women during pregnancy, childbirth, and postpartum period. Students learn about prenatal care, labor and delivery, newborn care, and postpartum support. The SBA module emphasizes practical skills such as assisting with deliveries, conducting newborn assessments, and providing lactation support. This prepares them to provide skilled and compassionate care to women and newborns, ensuring safe childbirth experiences and promoting maternal and infant health globally.
154	Community Health Nursing II	N-COMH(II) 401	B.Sc. Nursing (BSN)	Builds upon foundational skills to address complex community health issues. Students learn about population-based interventions, disease prevention strategies, and health promotion activities. This prepares them to assess community health needs, plan and implement health programs, and collaborate with community stakeholders to improve health outcomes globally.

155	Midwifery/Obstetrics and Gynaecology (OBG) Nursing II including Safe delivery app module	N-MIDW(II)/ OBGN 410	B.Sc. Nursing (BSN)	Focuses on advanced care for women during pregnancy, childbirth, and postpartum period. Students learn about high-risk pregnancies, obstetric emergencies, and advanced labor management techniques. The Safe Delivery App module enhances skills in managing deliveries safely, utilizing technological resources for real-time guidance. This prepares them to provide competent and safe care to women during childbirth, ensuring positive maternal and neonatal outcomes globally.
156	Detection and Diagnosis of Plant Diseases	PL PATH-505	M.Sc.Plant Pathology	This is a practical course which includes growth reproduction, survival and dispersal of important plant pathogens, role of environment and host nutrition on disease development which have relevance to the Global needs.
157	Tropical and Dry Land Fruit Production	FSC-501	M. Sc. Horticulture (Fruit Science)	The course content includes identification of commercial varieties of regional, national and international importance; production technology of various tropical and dry land fruit crops; post harvest management and their export potential which have relevance to the global needs
158	Subtropical and Temperate Fruit Production	FSC-502	M. Sc. Horticulture (Fruit Science)	The course content includes identification of commercial varieties of regional, national and international importance; production technology of various subtropical and temperate fruit crops; post harvest management and their export potential which have relevance to the global needs
159	Biodiversity and Conservation of Fruit Crops	FSC-503	M. Sc. Horticulture (Fruit Science)	It deals with the exploration, collection and conservation of germplasm; detection of their genetic constitution; intellectual property rights

160	Canopy Management in Fruit Crops	FSC-504	M. Sc. Horticulture (Fruit Science)	It deals with canopy management through training, pruning, growth inhibitors and rootstock and scion combinations to improve fruit quality with better yield
161	Propagation and Nursery Management for Fruit Crops	FSC-505	M. Sc. Horticulture (Fruit Science)	It includes various methods of propagation suitable for commercial nursery production of fruit crops
162	Breeding of Fruit Crops	FSC-506	M. Sc. Horticulture (Fruit Science)	It deals with various breeding methods like introduction, selection, hybridization, mutation abiotechnological interventions of different fruit crops which are important to develop a new variety
163	Biotechnology of Horticultural Crops	FSC-509	M. Sc. Horticulture (Fruit Science)	It includes various tissue culture methods; genetic engineering techniques for the improvement of varieties under aseptic conditions; molecular breeding for true validation of varieties
164	Production Technology for Ornamental Crops, MAP and	Hort-202	B. Sc. (Hons.) Agriculture	It deals with identification, landscaping, production, value addition of ornamental plants
165	Production Technology for Fruit and Plantation Crops	Hort-203	B. Sc. (Hons.) Agriculture	The deals with identification, production technologies and protection methods of various fruit and plantation crops
166	Fundamentals of Horticulture	Hort-101	B. Sc. (Hons.) Agriculture	It deals with nursery management, orchard management, canopy management, nutrient and water management of various horticultural crops
167	Production Technology for Vegetables and Spices	Hort-201	B. Sc. (Hons.) Agriculture	The deals with importance of vegetables and spices in human nutrition and national economy; identification, nursery management, production technologies various vegetables and spices
168	Production Technology of Cool Season Vegetable Crops	VSC 501	M.Sc. Horticulture (Vegetable Science)	The course content includes various cultural practices for the production of cool season vegetable crops and their seed production

169	Production Technology of Warm Season Vegetable Crops	VSC 502	M.Sc. Horticulture (Vegetable Science)	The course content includes various cultural practices for the production of warm season vegetable crops and their seed production
170	Breeding of Vegetable Crops	VSC 503	M.Sc. Horticulture (Vegetable Science)	This course deals with selection of important genotypes, various crossing techniques, hybrid seed production and molecular characterization of various vegetable crops
171	Growth and Development of Vegetable Crops	VSC 504	M.Sc. Horticulture (Vegetable Science)	This course deals with breaking and induction of dormancy, induction of parthenocarpy in various vegetable crops which increases their market value; application of various growth regulators to improve quality of vegetable crops
172	Seed Production Technology of Vegetable Crops	VSC 505	M.Sc. Horticulture (Vegetable Science)	It deals with various hybrid seed production methods to increase scope of seed industry in India and export their seed to other countries
173	Production Technology of Underexploited Vegetable Crops	VSC 507	M.Sc. Horticulture (Vegetable Science)	This course deals with identification and production of various underutilized vegetable crops having nutritional importance
174	Organic Vegetable Production Technology	VSC 508	M.Sc. Horticulture (Vegetable Science)	It deals with production of vegetable crops without using inorganic fertilizers to improve the soil fertility and also export of the organic produce
175	Fundamentals of Processing of Vegetables	VSC 509	M.Sc. Horticulture (Vegetable Science)	It includes production of various value added products from vegetables; utilization of byproducts from vegetable processing industries; Management of wastes from processing industries
176	Breeding of Flower Crops and Ornamental Plants	FLA 501	M.Sc. Horticulture (Floriculture and Landscape Architecture)	This course deals with selection of important genotypes, various crossing techniques, hybrid seed production, induction of mutants through physical and chemical mutagens and molecular characterization of various flower crops and ornamental plants

177	Production Technology of Cut Flowers	FLA 502	M.Sc. Horticulture (Floriculture and Landscape Architecture)	The course content includes various cultural practices for the year round production of cut flowers and their export potential
178	Production Technology of Loose Flowers	FLA 503	M.Sc. Horticulture (Floriculture and Landscape Architecture)	The course content includes various cultural practices for the year round production of loose flowers and their export potential
179	Landscaping and Ornamental Gardening	FLA 504	M.Sc. Horticulture (Floriculture and Landscape Architecture)	This course deals with landscaping and preparation of various gardens which is having aesthetic value
180	Protected Floriculture	FLA 505	M.Sc. Horticulture (Floriculture and Landscape Architecture)	It deals with protected cultivation of flowers and ornamental plants with good quality; off season production of flowers
181	Value Addition in Flowers	FLA 506	M.Sc. Horticulture (Floriculture and Landscape Architecture)	It deals various techniques of flower arrangements, floral decorations, dry flower making, preparation of bouquets, wall hangings etc.
182	Turfing and Turf Management	FLA 507	M.Sc. Horticulture (Floriculture and Landscape Architecture)	This course includes identification of various turf grasses, practices in turf establishment and their management
183	Advances in Vegetable Production	VSC 601	Ph.D. Horticulture (Vegetable Science)	This course includes advancement in vegetable production; dryland techniques for rainfed vegetable production; Vegetable waste recycling management; Portrays and ball culture
184	Advances in Breeding of Vegetable Crops	VSC 602	Ph.D. Horticulture (Vegetable Science)	This course includes screening techniques for quality improvement, biotic and abiotic stresses; Estimation of heterosis and combining ability; Distant hybridization and embryo rescue techniques
185	Protected Cultivation of Vegetable Crops	VSC 603	Ph.D. Horticulture (Vegetable Science)	It deals with protected cultivation of vegetables with good quality and their off season production; Maintenance of parental lines and hybrid seed production of vegetables; Control of insect-pests and disease in greenhouse

186	Biotechnology of Vegetable crops	VSC 604	Ph.D. Horticulture (Vegetable Science)	It includes various tissue culture methods; genetic engineering techniques for the improvement of varieties under aseptic conditions; molecular breeding for true validation of varieties; in-vitro selection of mutants for abiotic and biotic stresses
187	Seed Certification, Processing and Storage of Vegetable Crops	VSC 605	Ph.D. Horticulture (Vegetable Science)	It deals with methods of specification for seed certification of vegetable crops; seed sampling, seed testing and their marketing to increase awareness among people
188	Abiotic Stress Management in Vegetable Crops	VSC 606	Ph.D. Horticulture (Vegetable Science)	This course includes Techniques of vegetable growing under various abiotic stresses; identification of varieties resistant to abiotic stresses
189	Dissertation	PHY-600	M.Sc. Physics	This course is designed to provide practical exposure to the students about ongoing research in basic and applied areas of Physics globally. It will impart skills on planning, performing, analyzing and data interpretation of experiments.
190	Thesis	PHY-701	Ph.D. Physics	This course is designed to provide practical exposure to the students about ongoing research in basic and applied areas of Physics globally. It will impart skills on planning, performing, analyzing and data interpretation of experiments.
191	Material Science	PHY-533	M.Sc. Physics	This course include the various synthesis techniques of different type of materials and their characterization techniques for diverse practical applications globally.
192	Dissertation	CHEM-600	M.Sc. Chemistry	This course is designed to provide practical exposure to the students about ongoing research in basic and applied areas of Chemistry globally. It will impart skills on planning, performing, analyzing and data interpretation of experiments.

193	Dissertation	CHEM-701	Ph.D. Chemistry	This course is designed to provide practical exposure to the students about ongoing research in basic and applied areas of Chemistry globally. It will impart skills on planning, performing, analyzing and data interpretation of experiments.
194	Current Trends in Agronomy	AGRON-601	Ph.D. Agronomy	This is a theory course which include the study of all the latest methods and technologies used in the field of agronomy. The course content cover the concepts of conservation agriculture, residue mngement, precision farming, organic agriulture, ltest technologies in weed management, plant management, global warming and genetically modified crops concept which have relevance to global needs