

PANSKURA BANAMALI COLLEGE

(AUTONOMOUS)

Affiliated to VIDYASAGAR UNIVERSITY

NAAC Re-accredited 'A' Grade (2016 – 2023)

ISO 9001:2015, 14001:2015 & 50001:2018 Certified

DST-FIST(Govt. of India), BOOST-DBT(Govt. of West Bengal) sponsored College

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Certificate

This is to certify that the following data provided includes the list of courses which have relevance to the local, national, regional and global needs addressed in the curriculum for all programme.





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Pogramme	Course Code	Course Code Title of	Developme	Description about the
Name	Title of	Course	ntal Needs	need
	Course			addressed
BSc. Zoology	ZOOHAECCI	English Communication/Environmental Science	Global	Addresses global communication skills and environmental awareness.
	ZOOHAECCII	Non-chordates I: Protista to Pseudocoelomates	National	Provides foundational knowledge in biology, critical for national biodiversity studies.
	ZOOHCCI	Non-chordates I: Practical	National	Supports hands-on skills in studying non-chordate diversity relevant to national ecosystems.
	ZOOHCCIP	Principles of Ecology	Global	Introduces ecological principles essential for addressing global ecological challenges.
	ZOOHCCII	Principles of Ecology: Practical	Global	Develops practical skills for analyzing ecological systems and biodiversity.
	ZOOHCCIIP	Generic Elective-I	Local	Allows for interdisciplinary learning tailored to local academic needs.
	ZOOHCCIII	Generic Elective-I: Practical	Local	Practical learning opportunities in interdisciplinary subjects for local applications.
	ZOOHCCIIIP	English Communication/Environmental Science	Global	Emphasizes global linguistic and ecological understanding.
	ZOOHCCIV	Non-chordates II: Coelomates	National	Focuses on coelomate diversity critical for understanding national biodiversity.
	ZOOHCCIVP	Non-chordates II: Practical	National	Hands-on study of coelomates with relevance to national ecosystems.





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ZOOHCCV	Cell Biology	Global	Fundamental to global advancements in biology and biomedical research.
ZOOHCCVP	Cell Biology: Practical	Global	Practical skills for cellular and molecular studies applicable worldwide.
ZOOHCCVI	Generic Elective-II	Regional	Provides options for regional academic interests and skill development.
ZOOHCCVIP	Generic Elective-II: Practical	Regional	Practical learning tailored to regional academic requirements.
ZOOHCCVII	Diversity of Chordates	National	Studies chordate diversity critical for national-level wildlife conservation.
ZOOHCCVIIP	Diversity of Chordates: Practical	National	Practical exploration of chordate biodiversity relevant to national fauna.
ZOOHCCVIII	Physiology: Controlling and Coordinating System	Global	Key for understanding physiological systems relevant to global health issues.
ZOOHCCVIIIP	Physiology: Practical	Global	Provides practical skills for studying physiological processes worldwide.
ZOOHCCIX	Fundamentals of Biochemistry	Global	Core knowledge essential for global advancements in biochemistry and medicine.
ZOOHCCIXP	Fundamentals of Biochemistry: Practical	Global	Hands-on biochemistry techniques crucial for global scientific research.
ZOOHCCX	Skill Enhancement Course-I	Regional	Offers skill enhancement relevant to regional employment opportunities.
ZOOHCCXP	Generic Elective-III	Regional	Facilitates interdisciplinary learning tailored to regional needs.





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ZOOHCCXI	Generic Elective-III: Practical	Regional	Practical exposure in interdisciplinary subjects relevant to the region.
ZOOHCCXIP	Comparative Anatomy of Vertebrates	Global	Studies comparative anatomy relevant for global scientific and medical research.
ZOOHCCXII	Comparative Anatomy of Vertebrates: Practical	Global	Hands-on exploration of vertebrate anatomy applicable worldwide.
ZOOHCCXIIP	Physiology: Life Sustaining Systems	Global	Essential for understanding life- sustaining physiological systems globally.
ZOOHCCXIII	Physiology: Practical	Global	Practical studies in life-sustaining physiological processes with globa applications.
ZOOHCCXIIIP	Biochemistry of Metabolic Processes	Global	Addresses biochemical pathways relevant to global metabolic studies.
ZOOHCCXIV	Biochemistry of Metabolic Processes: Practical	Global	Practical biochemistry relevant for global biomedical research.
ZOOHCCXIVP	Skill Enhancement Course-II	Regional	Provides practical skills for regional career opportunities.
ZOOHGE1	Generic Elective-IV	Local	Interdisciplinary elective catering to local academic needs.
ZOOHGE1P	Generic Elective-IV: Practical	Local	Practical exposure in interdisciplinary subjects for local applications.
ZOOHGE2	Molecular Biology	Global	Foundational knowledge for molecular biology research with global impact.
ZOOHGE2P	Molecular Biology: Practical	Global	Practical molecular biology techniques for worldwide applications.





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ZOOHGE3	Principles of Genetics	Global	Core genetics principles essential for global research in genetics.
ZOOHGE3P	Principles of Genetics: Practical	Global	Hands-on genetics studies relevan for global biomedical and agricultural research.
ZOOHGE4	Discipline-Specific Elective-I	Local	Focused studies tailored to local academic and career interests.
ZOOHGE4P	Discipline-Specific Elective-I: Practical	Local	Practical exposure tailored to local requirements in the field.
ZOOHSEC1	Aquaculture	Regional	Develops skills for regional industries like aquaculture and fisheries.
ZOOHSEC2	Sericulture	Regional	Focuses on regional sericulture practices relevant for employment.
ZOOHDSE1	Developmental Biology	Global	Essential for understanding developmental processes with global applications.
ZOOHDSE1P	Developmental Biology: Practical	Global	Practical developmental biology techniques for global research needs.
ZOOHDSE2	Evolutionary Biology	Global	Addresses evolutionary principles relevant for global scientific studies.
ZOOHDSE2P	CC-XIV P	Global	Practical focus on evolutionary biology for global research.
ZOOHDSE3	Discipline-Specific Elective-III	Local	Elective focused on specific local developmental needs.
ZOOHDSE3P	Discipline-Specific Elective-III: Practical	Local	Practical exploration of local academic and career-focused topics.
ZOOHDSE4	Discipline-Specific Elective-IV	Local	Advanced elective catering to loca developmental requirements.
ZOOHDSE4P	Discipline-Specific Elective-IV: Practical	Local	Practical exposure tailored to local career and academic interests.





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BSc. Physiology	code	Subject Name	Developmental Needs	Description
	PHYHCC1	Cellular Basis of Physiology	Global	Foundational knowledge of cell physiology applicable worldwide.
	PHYHCC2	Biological Physics and Enzymes	Global	Essential for understanding biophysical processes and enzymatic activities globally.
	PHYHAECC1	Ability Enhancement Compulsory Course-I	National	Develops compulsory skills for effective national academic progress.
	PHYHGE1	Generic Elective-I	Local	Interdisciplinary elective catering to local academic needs.
	РНҮНСС3	Physiology of Nerve and Muscle Cells	Global	Critical for global advancements in neuroscience and muscle physiology.
	PHYHCC4	Chemistry of Biomolecules	Global	Essential for biochemical research with global implications.
	PHYHAECC2	Ability Enhancement Compulsory Course-II	National	Focused on enhancing national- level communication and foundational skills.
	PHYHGE2	Generic Elective-II	Regional	Provides options for region- specific interdisciplinary studies.
	РНҮНСС5	Blood and Body Fluids	Global	Core physiological concepts relevant to global health and medical research.
	РНҮНСС6	Heart and Circulation	Global	Key for understanding cardiovascular systems relevant to global health.
	PHYHCC7	Nervous System	Global	Critical for neuroscience research and medical studies worldwide.
	PHYHSECA	Skill Enhancement Course-A	Regional	Focused on regional skill enhancement for employability and research.
	PHYHSEC1	- Computer Application	Global	Develops computational skills applicable across global industries





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PHYHSEC2	- Physiological Techniques	National	Provides practical skills relevant to national-level physiological research.
PHYHGE3	Generic Elective-III	Regional	Elective addressing regional academic and career needs.
РНҮНСС8	Energy Balance and Metabolism	Global	Essential for global understanding of energy dynamics and metabolism.
РНҮНСС9	Gastrointestinal Physiology and Nutrition and Dietetics	Global	Addresses gastrointestinal and nutritional health with global applications.
РНҮНСС10	Respiration	Global	Studies respiratory processes critical for global biomedical advancements.
PHYHSECB	Skill Enhancement Course-B	Regional	Enhances region-specific skills for public health and clinical practices
PHYHSEC3	- Community Health	Local	Focuses on improving health outcomes within local communities.
PHYHSEC4	- Clinical Biochemistry	National	Provides practical skills for national-level clinical and diagnostic labs.
PHYHGE4	Generic Elective-IV	Regional	Supports regional interdisciplinary education needs.
PHYHCC11	Special Senses	Global	Addresses sensory physiology with relevance to global medical studies.
PHYHCC12	Endocrinology	Global	Focuses on hormonal regulation critical for global health and research.
PHYHDSEA	Discipline-Specific Elective-A	National	Focused electives addressing national developmental priorities.
PHYHDSE1	- Biostatistics	Global	Develops statistical analysis skills for global biomedical research.



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PHYHDSE2	- Microbiology and Immunology	Global	Key for understanding microbes and immune systems relevant globally.
PHYHDSEB	Discipline-Specific Elective-B	Regional	Addresses region-specific physiological challenges and opportunities.
PHYHDSE3	- Ergonomics and Occupational Physiology	Regional	Focuses on workplace health and safety relevant to regional industries.
PHYHDSE4	- Community and Public Health	Local	Addresses local public health issues with practical community solutions.
PHYHCC13	Reproductive Physiology and Developmental Biology	Global	Studies reproductive health and development relevant worldwide.
PHYHCC14	Renal Physiology, Skin, Body Temp Regulation, and Health	Global	Addresses renal and thermoregulatory systems critical for global health.
PHYHDSEC	Discipline-Specific Elective-C	Global	Advanced electives catering to global scientific research needs.
PHYHDSE5	- Work, Exercise and Sports Physiology	Global	Addresses sports physiology with applications in global health and athletics.
PHYHDSE6	- Advanced Molecular Biology	Global	Focuses on cutting-edge molecula biology techniques and discoveries.
PHYHDSED	Discipline-Specific Elective-D	National	Electives addressing developmental needs at the national level.
PHYHDSE7	- Chronobiology and Stress Physiology	Global	Studies biological rhythms and stress relevant to global health research.





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	PHYHDSE8	- Toxicology and Pharmacology	Global	Critical for global drug development and safety assessment.
BSc. Physics	Code	Subject Name	Developmenta Needs	Description
	PHSHCCI	Mathematical Physics-I	Global	Provides foundational mathematical tools essential for physics worldwide.
	PHSHCCII	Mechanics	Global	Fundamental concepts of mechanics applicable globally in science and engineering.
	PHSHAECCI	English/Environmental Science	Global	Develops global communication skills and environmental awareness.
	PHSHGEI	Generic Elective-I (From Mathematics, Chemistry, or CS)	Local	Offers interdisciplinary options tailored to local academic and career needs.
	PHSHCCIII	Electricity and Magnetism	Global	Key concepts essential for global advancements in physics and engineering.
	PHSHCCIV	Waves and Optics	Global	Focuses on fundamental wave and optical phenomena with global applications.
	PHSHAECCII	Environmental Science/English	Global	Emphasizes environmental and linguistic skills with global relevance.
	PHSHGEII	Generic Elective-II (From Mathematics, Chemistry, or CS)	Regional	Provides region-specific interdisciplinary learning opportunities.
	PHSHCCV	Mathematical Physics-II	Global	Advances mathematical techniques essential for global physics research.
	PHSHCCVI	Thermal Physics	Global	Explores thermal processes crucial for global scientific and industrial applications.





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PHSHCCVII	Digital Systems and Applications	Global	Introduces digital technology critical for global advancements in electronics.
PHSHSECI	Skill Enhancement Course-I	Regional	Provides skills in electrical circuits or computer applications for regional needs.
PHSHGEIII	Generic Elective-III (From Mathematics, Chemistry, or CS)	Regional	Offers interdisciplinary electives addressing regional academic priorities.
PHSHCCVIII	Mathematical Physics-III	Global	Advanced mathematical tools necessary for global scientific challenges.
PHSHCCIX	Modern Physics	Global	Explores revolutionary concepts in physics relevant to global research.
PHSHCCX	Analog Systems and Applications	Global	Focuses on analog systems vital for global electronics and instrumentation.
PHSHSECII	Skill Enhancement Course-II	Regional	Skills in basic instrumentation or renewable energy systems with regional applications.
PHSHGEIV	Generic Elective-IV (From Mathematics, Chemistry, or CS)	Regional	Interdisciplinary elective options tailored to regional academic needs.
PHSHCCXI	Quantum Mechanics and Applications	Global	Fundamental for understanding quantum phenomena with worldwide relevance.
PHSHCCXII	Solid State Physics	Global	Addresses properties of solids essential for global materials science and electronics.
PHSHDSEI	Discipline-Specific Elective-I (From Physics DSE Options)	National	Electives aligned with national developmental needs in physics research.
PHSHDSEII	Discipline-Specific Elective-II (From Physics DSE Options)	National	Advanced electives addressing specific national research priorities.





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	PHSHCCXIII	Electromagnetic Theory	Global	Key for understanding electromagnetic phenomena relevant worldwide.
	PHSHCCXIV	Statistical Mechanics	Global	Essential for exploring statistical properties of systems globally.
	PHSHDSEIII	Discipline-Specific Elective-III (From Physics DSE Options)	National	Electives catering to specialized national-level research and applications.
	PHSHDSEIV	Discipline-Specific Elective-IV (From Physics DSE Options)	National	Focuses on advanced topics aligned with national science and technology goals.
BSc. Microbiology	Code	Subject Name	Developmenta Needs	Description
	MCBHC1CT1	Introduction to Microbiology and Microbial Diversity	Global	Provides foundational knowledge of microbes essential for global research.
	MCBHC1CP1	Introduction to Microbiology and Microbial Diversity Lab	Global	Hands-on skills in studying microbial diversity relevant worldwide.
	MCBHC2CT2	Bacteriology	Global	Focuses on bacterial physiology and taxonomy important for global health.
	MCBHC2CP2	Bacteriology Lab	Global	Practical skills in bacteriology crucial for global research and diagnostics.
	MCBHGE1	Generic Elective-1 (Choose from GE options)	Local	Interdisciplinary learning tailored to local academic needs.
	MCBHAECC1	English/MIL	National	Enhances linguistic skills critical fo national communication and learning.
	МСВНСЗСТЗ	Biochemistry	Global	Fundamental knowledge of biomolecules and metabolic pathways globally relevant.





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МСВНСЗСРЗ	Biochemistry Lab	Global	Practical techniques in biochemistry essential for research worldwide.
MCBHC4CT4	Virology	Global	Studies viruses, essential for globa health and disease control efforts.
MCBHC4CP4	Virology Lab	Global	Hands-on virology techniques critical for diagnostics and research globally.
MCBHGE2	Generic Elective-2 (Choose from GE options)	Regional	Offers interdisciplinary studies addressing regional academic priorities.
MCBHAECC2	Environmental Science (ENVS)	Global	Focuses on environmental awareness essential for global sustainability.
MCBHC5CT5	Microbial Physiology and Metabolism	Global	Explores microbial functions and metabolism with global applications.
MCBHC5CP5	Microbial Physiology and Metabolism Lab	Global	Practical exploration of microbial metabolic processes relevant worldwide.
МСВНС6СТ6	Cell Biology	Global	Fundamental knowledge of cell structure and function applicable globally.
МСВНС6СР6	Cell Biology Lab	Global	Hands-on techniques in cellular studies essential for global research.
МСВНС7СТ7	Molecular Biology	Global	Key for understanding genetic and molecular mechanisms globally.
МСВНС7СР7	Molecular Biology Lab	Global	Practical molecular biology techniques critical for global advancements.
MCBHGE3	Generic Elective-3 (Choose from GE options)	Regional	Elective catering to regional interdisciplinary academic needs.





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	MCBHCSEC1	Skill Enhancement Course-1	Regional	Enhances practical skills relevant to regional microbiology applications.
	MCBHC8CT8	Microbial Genetics	Global	Studies genetic mechanisms in microbes with worldwide relevance.
	MCBHC8CP8	Microbial Genetics Lab	Global	Practical skills in microbial genetics essential for global research.
	МСВНС9СТ9	Environmental Microbiology	Global	Explores microbial interactions with the environment for global applications.
	МСВНС9СР9	Environmental Microbiology Lab	Global	Hands-on techniques in environmental microbiology relevant globally.
	MCBHC10CT10	Food and Dairy Microbiology	National	Focuses on microbial applications in food and dairy industries nationally.
	MCBHC10CP10	Food and Dairy Microbiology Lab	National	Practical skills in food microbiology relevant to national industries.
	MCBHGE4	Generic Elective-4 (Choose from GE options)	Regional	Addresses interdisciplinary interests tailored to regional academic needs.
	MCBHCSEC2	Skill Enhancement Course-2	Regional	Practical skills for regional employability in microbiology and related fields.
BSc Mathematics	Code	Subject Name	Developmenta Needs	Description
	MTMHC1	Algebra	Global	Fundamental algebra concepts applicable worldwide in advanced studies.
	MTMHC2	Calculus & Geometry	Global	Essential for understanding mathematical and geometric principles globally.





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MTMHGE1	Environmental Science / English	Global	Develops communication skills and environmental awareness with global relevance.
MTMHAECC1	Real Analysis	Global	Key for global mathematical research and theoretical understanding.
МТМНС3	Differential Equations & Vector Calculus	Global	Focuses on differential equations and vector calculus critical for applications worldwide.
MTMHC4	Algebra-I	Global	Builds advanced algebraic skills essential for global research.
MTMHGE2	English Communication / Environmental Science	Global	Enhances global communication and ecological knowledge.
MTMHAECC2	Theory of Real Functions	Global	Provides theoretical insights into real functions with global applicability.
MTMHC5	Group Theory I	Global	Fundamental for understanding algebraic structures with global implications.
МТМНС6	Numerical Methods	Global	Techniques essential for solving problems in global scientific applications.
МТМНС7	Differential Equations & Vector Calculus	Global	Advanced concepts for applications in physics and engineering globally.
MTMHGE3	Logic and Sets	Global	Introduces mathematical logic and set theory crucial for global studies.
MTMHSEC1	Riemann Integration & Series Functions	Global	Advanced integration techniques and series essential for research worldwide.
MTMHC8	Multivariate Calculus	Global	Focuses on calculus of multiple variables with worldwide applicability.





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BSc Economics	Code	Subject Name	Developmenta Needs	Description
	MTMHDSE3	Mathematical Modelling / Project Work		Focuses on practical modeling and applications relevant to national needs.
	MTMHC14	Mechanics / Mathematical Modelling	Global	Addresses physical and mathematical systems with global relevance.
	MTMHC13	Ring Theory and Linear Algebra II	Global	Advanced algebraic concepts for global mathematical studies and applications.
	MTMHDSE2	Metric Space & Complex Analysis	Global	Fundamental for advanced research in mathematics worldwide.
	MTMHDSE1	Probability and Statistics / Boolear Algebra	Global	Key concepts for global data analysis and computational logic.
	MTMHC12	Linear Programming / Theory of Equations	Global	Focuses on optimization and equations critical for industries worldwide.
	MTMHC11	Group Theory II	Global	Advances in group theory essential for mathematical and physical sciences globally.
	MTMHSEC2	Partial Differential Equations & Applications	Global	Focuses on applications of PDEs crucial for global scientific challenges.
	MTMHGE4	Graph Theory / Other SEC Options	Global	Key for computer science and network analysis with global relevance.
	MTMHC10	Partial Differential Equations & Numerical Methods	Global	Addresses PDEs and numerical solutions vital for applications worldwide.
	МТМНС9	Ring Theory and Linear Algebra I	Global	Fundamental for understanding algebraic structures and linear spaces globally.





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ECOHC1	Introductory Microeconomics	Global	Provides foundational concepts of microeconomics relevant worldwide.
ECOHC2	Mathematical Methods for Economics-I	Global	Introduces mathematical tools essential for global economic analysis.
ECOHGE1	Introductory Microeconomics	Local	Offers basic economic insights tailored to local academic needs.
ECOHAECC1	Ability Enhancement Compulsory Course-I	National	Focuses on enhancing communication and foundational skills.
ECOHC3	Introductory Macroeconomics	Global	Fundamental concepts of macroeconomics applicable worldwide.
ECOHC4	Mathematical Methods for Economics-II	Global	Advanced mathematical techniques critical for global economic research.
ECOHGE2	Introductory Macroeconomics	Regional	Provides macroeconomic insights tailored to regional academic priorities.
ECOHAECC2	Ability Enhancement Compulsory Course-II	National	Develops compulsory skills relevant to national economic studies.
ECOHC5	Intermediate Microeconomics-I	Global	Focuses on advanced microeconomic theories applicable globally.
ECOHC6	Intermediate Macroeconomics-I	Global	Explores intermediate macroeconomic concepts with global applications.
ECOHC7	Statistical Methods for Economics	Global	Key statistical techniques essential for global economic research.
ECOHGE3	Indian Economy	National	Provides insights into the structure and challenges of the Indian economy.





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ECOHSEC1	Data Analysis and Computer Applications	Regional	Enhances computational and analytical skills for regional economic needs.
ECOHC8	Intermediate Microeconomics-II	Global	Further exploration of microeconomic theories with worldwide relevance.
ECOHC9	Intermediate Macroeconomics-II	Global	Advances macroeconomic analysis applicable to global financial studies.
ECOHC10	Introductory Econometrics	Global	Focuses on econometric methods critical for global data analysis and research.
ECOHGE4	Money and Banking	National	Explores monetary systems and banking operations relevant to national development.
ECOHSEC2	Economics of Floriculture	Local	Addresses economic aspects of floriculture, relevant for local industries.
ECOHC11	Indian Economy-I	National	Detailed exploration of India's economic structure and policies.
ECOHC12	Development Economics-I	Global	Introduces theories and practices in development economics with global applications.
ECOHDSE1	Economics of Health and Education	Global	Focuses on the economics of health and education, crucial for global welfare.
ECOHDSE2	Money and Financial Markets	Global	Addresses global financial systems and markets.
ECOHC13	Indian Economy-II	National	Continuation of India's economic studies with policy and structural focus.
ECOHC14	Development Economics-II	Global	Advanced development economics concepts with global relevance.





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	ECOHDSE3	Environmental Economics	Global	Studies the intersection of economics and environmental sustainability globally.
	ECOHDSE4	Dissertation / Project	Local	Focuses on applying theoretical knowledge to local or specific economic issues.
BSc Geography	Code	Subject Name	Developmenta Needs	Description
	GEOHC1T	Geomorphology	Global	Focuses on landform processes and their global significance.
	GEOHC2P&T	Cartographic Techniques (Practical)	Global	Develops practical skills in map- making and cartographic analysis worldwide.
	GEOHAECC1	Environmental Science	Global	Enhances understanding of environmental issues with global relevance.
	GEOHGE1	Disaster Management / Geograph of Tourism	National	Addresses disaster management and tourism development with national focus.
	GEOHC3T	Human Geography	Global	Explores human-environment relationships relevant worldwide.
	GEOHC4P	Thematic Cartography (Practical)	Regional	Practical techniques in cartography focusing on regional themes.
	GEOHAECC2	English / MIL Communication	National	Enhances communication skills critical for academic and professional success.
	GEOHGE2	Spatial Information Technology / Regional Development	Regional	Focuses on spatial technology and regional planning with regional applications.
	GEOHC5T	Climatology	Global	Studies atmospheric processes crucial for global climate research.





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GEOHC6T	Geography of India	National	Provides comprehensive insights into India's geography and development.
GEOHC7P	Statistical Methods in Geography (Practical)	Global	Develops statistical techniques applicable to global geographical research.
GEOHSEC1	Remote Sensing / Advanced Spatial Statistical Techniques (Practical)	Global	Practical skills in remote sensing and spatial statistics relevant worldwide.
GEOHGE3	Climate Change: Vulnerability and Adaptation / Rural Development	Global	Explores global climate change impacts and adaptive strategies.
GEOHC8T	Economic Geography	Global	Analyzes spatial distribution of economic activities with global relevance.
GEOHC9T	Environmental Geography	Global	Addresses environmental issues and their geographical perspectives globally.
GEOHC10P	Field Work and Research Methodology (Practical)	Regional	Practical research methods focusing on regional geographical studies.
GEOHSEC2	Geographical Information System , Research Methods (Practical)	Global	Focuses on GIS techniques and research methodologies applicable worldwide.
GEOHGE4	Industrial Geography / Sustainable Development	Global	Explores industrial location theories and sustainable practices globally.
GEOHC11T	Regional Planning and Development	National	Studies regional planning strategies critical for national development.





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	GEOHC12P	Remote Sensing and GIS (Practical)	Global	Practical applications of remote sensing and GIS for global geographical research.
	GEOHDSE1	Population Geography / Resource Geography	Global	Analyzes population distribution and resource management relevant globally.
	GEOHDSE2	Urban Geography / Agricultural Geography	National	Explores urbanization and agriculture with a focus on national dynamics.
	GEOHC13T	Evolution of Geographical Thought	Global	Studies historical and contemporary geographical thought with global perspectives.
	GEOHC14P	Disaster Management-based Field Project Work (Practical)	National	Practical project focusing on disaster management tailored to national needs.
	GEOHDSE3	Geography of Health and Wellbeing / Political Geography	Global	Addresses health, wellbeing, and political geography relevant globally.
	GEOHDSE4	Hydrology and Oceanography / Social Geography	Global	Explores water systems and social interactions with global applications.
Bsc Computer Science	Code	Subject Name	Developmenta Needs	Description
	COSHCI	Programming Fundamentals using C/C++	Global	Develops programming skills essential for global software development.
	COSHCI Lab	Programming Fundamentals using C/C++ (Lab)	Global	Practical exposure to C/C++ programming techniques relevant globally.
	COSHCII	Computer System Architecture	Global	Studies system design essential for global computing infrastructure.





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COSHCII Lab	Computer System Architecture (Lab)	Global	Practical skills in understanding computer architecture with global relevance.
COSHAECCI	English/MIL Communication/Environmental Science	Global	Enhances communication and environmental awareness with global applications.
COSHGE1	Computer Fundamentals / Other GE Option	Local	Introduces basic computing skills tailored to local academic needs.
COSHCIII	Programming in JAVA	Global	Advanced programming skills in JAVA essential for global software industries.
COSHCIII Lab	Programming in JAVA (Lab)	Global	Hands-on JAVA programming skills relevant globally.
COSHCIV	Discrete Structures	Global	Fundamental mathematical structures critical for computing worldwide.
COSHCIV Tut.	Discrete Structures (Tutorial)	Global	Tutorials to strengthen concepts ir discrete mathematics globally.
COSHAECCII	English/MIL Communication/Environmental Science	Global	Builds communication and environmental skills relevant worldwide.
COSHGE2	Introduction to Programming / Other GE Option	Regional	Provides programming basics with regional focus and applications.
COSHCV	Data Structures	Global	Core concepts in data organization and management globally.
COSHCV Lab	Data Structures (Lab)	Global	Practical skills in implementing data structures with global applicability.
COSHVI	Operating Systems	Global	Studies OS design and management crucial for computing globally.
COSHVI Lab	Operating Systems (Lab)	Global	Hands-on OS configuration and management techniques with worldwide relevance.





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COSH VII	Computer Networks	Global	Explores networking principles essential for global communication systems.
COSH VII Lab	Computer Networks (Lab)	Global	Practical skills in network setup and troubleshooting with global applications.
COSHSec1	UNIX/Linux Programming / Other SEC Option	Global	Introduces UNIX/Linux programming relevant for global operating systems.
COSHGE3	Multimedia and Applications / Other GE Option	Regional	Explores multimedia tools and applications relevant to regional industries.
COSH CVIII	Design and Analysis of Algorithms	Global	Key algorithms essential for solving computational problems globally.
COSH CVIII Lab	Design and Analysis of Algorithms (Lab)	Global	Practical skills in implementing algorithms for global challenges.
COSH CIX	Software Engineering	Global	Focuses on software development methodologies crucial for global projects.
COSH CIX Lab	Software Engineering (Lab)	Global	Hands-on project management and software design with global relevance.
COSH CX	Database Management Systems	Global	Explores database systems critical for global data management.
COSH CX Lab	Database Management Systems (Lab)	Global	Practical skills in managing databases relevant worldwide.
COSHSec2	PHP Programming / Other SEC Option	Regional	Develops web-based programming skills tailored to regional applications.
COSH GE4	Web and E-Commerce Technologies / Other GE Option	Global	Addresses global e-commerce trends and technologies.
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COSH CXI	Internet Technologies	Global	Explores internet infrastructure essential for global connectivity.
COSH CXI Lab	Internet Technologies (Lab)	Global	Hands-on skills in managing internet systems with worldwide relevance.
COSH CXII	Theory of Computation	Global	Studies theoretical computation models applicable globally.
COSH CXII Tut	Theory of Computation (Tutorial)	Global	Tutorials for strengthening concepts in computation theory globally.
COSHDSE1	Microprocessor / Other DSE Option	Global	Explores microprocessor architecture critical for global electronics.
COSHDSE1 Lab	Microprocessor (Lab) / Other DSE Option Lab	Global	Hands-on skills in microprocessor applications relevant worldwide.
COSHDSE2	Numerical Methods / Other DSE Option	Global	Numerical techniques essential for solving scientific problems globally.
COSHDSE2 Lab	Numerical Methods (Lab) / Other DSE Option Lab	Global	Practical implementation of numerical techniques relevant globally.
COSH CXIII	Artificial Intelligence	Global	Studies AI concepts critical for global technological advancements.
COSH CXIII Lab	Artificial Intelligence (Lab)	Global	Practical skills in AI implementation with global applications.
COSH CXIV	Computer Graphics	Global	Explores graphical techniques essential for global multimedia industries.
COSH CXIV Lab	Computer Graphics (Lab)	Global	Hands-on skills in computer graphics design and applications globally.





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	COSHDSE3	Digital Image Processing / Other DSE Option	Global	Focuses on image processing techniques relevant worldwide.
	COSHDSE3 Lab	Digital Image Processing (Lab) / Other DSE Option Lab	Global	Practical implementation of digital image processing techniques globally.
	COSHDSE4	Cloud Computing / Other DSE Option	Global	Addresses cloud technology trends essential for global industries.
	COSHDSE4 Lab	Cloud Computing (Lab) / Other DSE Option Lab	Global	Practical skills in cloud computing technologies relevant worldwide.
BSc Chemistry	Code	Subject Name	Developmenta Needs	Description
	CEMHCC1	Inorganic Chemistry-1	Global	Explores chemical bonding and periodic properties essential for global chemistry.
	CEMHCC1 Lab	Inorganic Chemistry-1 (Practical)	Global	Hands-on experience with inorganic chemistry techniques relevant worldwide.
	CEMHCC2	Physical Chemistry-1	Global	Focuses on thermodynamics and kinetics critical for global scientific applications.
	CEMHCC2 Lab	Physical Chemistry-1 (Practical)	Global	Practical experiments in physical chemistry applicable globally.
	CEMEGE1	Section I: Inorganic Chemistry-1	Global	Covers inorganic chemistry basics applicable in global research.
	CEMHGE2	Section II: Organic Chemistry-1	Global	Introduces organic compounds and reactions essential for global studies.
	CEMEGE1 Lab	Inorganic/Organic Chemistry-1 (Practical)	Global	Practical exposure to inorganic and organic chemistry techniques globally.





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	AECC-1	English/MIL Communication or Environmental Science	Global	Builds communication and environmental awareness with global applicability.
	СЕМНССЗ	Organic Chemistry-1	Global	Fundamental organic chemistry concepts relevant to global industries.
	CEMHCC3 Lab	Organic Chemistry-1 (Practical)	Global	Hands-on skills in organic synthesis and analysis relevant worldwide.
	CEMHCC4	Physical Chemistry-2	Global	Studies electrochemistry and quantum mechanics essential for global advancements.
	CEMHCC4 Lab	Physical Chemistry-2 (Practical)	Global	Practical experiments focusing on electrochemical and quantum studies globally.
	CEMEGE2	Section I: Physical Chemistry-1	Global	Explores fundamental physical chemistry concepts with global applications.
	CEMHGE3	Section II: Organic Chemistry-2	Global	Advances organic chemistry knowledge applicable to global research.
	CEMEGE2 Lab	Physical/Organic Chemistry-2 (Practical)	Global	Combines practical techniques in physical and organic chemistry.
	CEMHAECC-2	Environmental Science or English/MIL Communication	Global	Enhances communication and ecological literacy relevant globally.
	CEMHCC5	Inorganic Chemistry-2	Global	Focuses on coordination chemistry critical for global material sciences.
	CEMHCC5 Lab	Inorganic Chemistry-2 (Practical)	Global	Hands-on coordination chemistry techniques with global relevance.





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СЕМНСС6	Organic Chemistry-2	Global	Explores reaction mechanisms and stereochemistry important globally.
CEMHCC6 Lab	Organic Chemistry-2 (Practical)	Global	Practical applications in organic chemistry synthesis and analysis.
СЕМНСС7	Physical Chemistry-3	Global	Explores surface chemistry and kinetics applicable worldwide.
CEMHCC7 Lab	Physical Chemistry-3 (Practical)	Global	Hands-on studies in kinetics and surface phenomena relevant globally.
CEMHSEC-1	Skill Enhancement Course (e.g., Analytical Chemistry)	National	Develops analytical techniques tailored to national industry needs.
CEMEGE3	Section I: Inorganic Chemistry-2	Global	Advanced inorganic chemistry concepts with global applications.
CEMHGE4	Section II: Organic Chemistry-3	Global	Focuses on reaction mechanisms relevant to global organic chemistry studies.
CEMEGE3 Lab	Inorganic/Organic Chemistry-3 (Practical)	Global	Combines practical inorganic and organic chemistry techniques.
CEMHCC8	Inorganic Chemistry-3	Global	Studies bioinorganic chemistry critical for global biomedical research.
CEMHCC8 Lab	Inorganic Chemistry-3 (Practical)	Global	Practical techniques in bioinorganic chemistry with global relevance.
СЕМНСС9	Organic Chemistry-3	Global	Covers advanced organic reactions and synthesis applicable worldwide.
CEMHCC9 Lab	Organic Chemistry-3 (Practical)	Global	Hands-on skills in advanced organic synthesis and analysis.
CEMHCC10	Physical Chemistry-4	Global	Explores spectroscopy and chemical thermodynamics essential globally.





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CEMHCC10 Lab	Physical Chemistry-4 (Practical)	Global	Practical spectroscopy techniques applicable to global research.
CEMHSEC-2	Skill Enhancement Course (e.g., Environmental Chemistry)	Global	Builds skills in chemistry with environmental applications relevant globally.
CEMEGE4	Section I: Physical Chemistry-2	Global	Advances physical chemistry studies applicable to global challenges.
CEMEGE5	Section II: Organic Chemistry-4	Global	Explores complex organic synthesis essential for global pharmaceutical industries.
CEMEGE4 Lab	Physical/Organic Chemistry-4 (Practical)	Global	Combines practical skills in physical and organic chemistry globally.
CEMHCC11	Organic Chemistry-4	Global	Advanced organic chemistry studies with global applications.
CEMHCC11 Lab	Organic Chemistry-4 (Practical)	Global	Hands-on organic chemistry applications relevant globally.
CEMHCC12	Physical Chemistry-5	Global	Focuses on quantum chemistry and thermodynamics with global relevance.
CEMHCC12 Lab	Physical Chemistry-5 (Practical)	Global	Practical quantum chemistry experiments applicable worldwide.
CEMHDSE-1	Discipline-Specific Elective (e.g., Spectroscopy)	Global	Studies spectroscopy critical for global chemical and material sciences.
CEMHDSE-1 Lab	Spectroscopy (Practical) / Other Elective Lab	Global	Practical spectroscopy techniques relevant globally.
CEMHDSE-2	Discipline-Specific Elective (e.g., Bioinorganic Chemistry)	Global	Explores bioinorganic principles critical for global biochemical applications.





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	CEMHDSE-2 Lab	Bioinorganic Chemistry (Practical) / Other Elective Lab	Global	Hands-on bioinorganic chemistry techniques applicable worldwide.
	CEMHCC13	Inorganic Chemistry-4	Global	Studies advanced inorganic chemistry concepts relevant globally.
	CEMHCC13 Lab	Inorganic Chemistry-4 (Practical)	Global	Practical skills in advanced inorganic chemistry applications.
	CEMHCC14	Physical Chemistry-6	Global	Covers advanced thermodynamics and statistical mechanics essential worldwide.
	CEMHCC14 Lab	Physical Chemistry-6 (Practical)	Global	Practical applications in thermodynamics and statistical studies.
	CEMHDSE-3	Discipline-Specific Elective (e.g., Polymer Chemistry)	Global	Studies polymers critical for global industrial and research applications.
	CEMHDSE-3 Lab	Polymer Chemistry (Practical) / Other Elective Lab	Global	Hands-on polymer chemistry techniques relevant globally.
	CEMGDSE-4	Discipline-Specific Elective (e.g., Environmental Chemistry)	Global	Explores chemistry's role in addressing global environmental challenges.
	CEMHDSE-4 Lab	Environmental Chemistry (Practical) / Other Elective Lab	Global	Practical studies in environmental chemistry with global applications
BSc Biotechnology	Code	Subject Name	Developmenta Needs	Description
	BITHCT1	Biochemistry & Metabolism	Global	Studies biochemical pathways critical for global biomedical research.
	BITHCP1	Biochemistry & Metabolism (Lab)	Global	Hands-on skills in studying biochemical processes applicable worldwide.





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BITHCT2	Cell Biology	Global	Fundamental concepts of cell structure and function essential globally.
BITHCP2	Cell Biology (Lab)	Global	Practical techniques in cellular studies for global research applications.
BITHAECC1	EVS/English/MIL	Global	Enhances communication and environmental awareness relevant globally.
BITHGE1	TBD (Generic Elective 1)	Local	Elective designed to address local academic or research needs.
BITHCT3	Mammalian Physiology	Global	Explores physiological processes relevant to global health sciences.
BITHCP3	Mammalian Physiology (Lab)	Global	Practical techniques for studying mammalian systems applicable worldwide.
BITHCT4	Plant Physiology	Global	Studies plant functions and processes relevant for global agriculture.
BITHCP4	Plant Physiology (Lab)	Global	Hands-on skills in plant physiology for research and applications globally.
BITHAECC2	EVS/English/MIL	Global	Builds essential skills in communication and ecological literacy.
BITHGE2	TBD (Generic Elective 2)	Regional	Elective addressing regional academic or research interests.
BITHCT5	Genetics	Global	Fundamental knowledge of inheritance and gene function with global impact.
BITHCP5	Genetics (Lab)	Global	Practical skills in genetic studies applicable worldwide.
ВІТНСТ6	General Microbiology	Global	Introduces microbial diversity and applications with global relevance





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BITHCP6	General Microbiology (Lab)	Global	Hands-on microbiology techniques for diagnostics and research globally.
BITHCT7	Chemistry-1	Global	Focuses on basic chemistry concepts essential for global biotech research.
BITHCP7	Chemistry-1 (Lab)	Global	Practical chemistry skills relevant to biotechnology applications globally.
BITHSEC1	TBD (Skill Enhancement 1)	Regional	Skill enhancement designed to meet regional academic or industrial needs.
BITHGE3	TBD (Generic Elective 3)	Local	Elective tailored to local developmental and educational goals.
BITHCT8	Molecular Biology	Global	Studies molecular mechanisms essential for biotechnology research globally.
BITHCP8	Molecular Biology (Lab)	Global	Practical molecular biology skills for applications worldwide.
ВІТНСТ9	Immunology	Global	Explores immune systems critical for global health and disease management.
ВІТНСР9	Immunology (Lab)	Global	Hands-on skills in immunological studies relevant globally.
BITHCT10	Chemistry-2	Global	Advanced chemistry concepts critical for biotechnological innovations.
BITHCP10	Chemistry-2 (Lab)	Global	Practical applications of advanced chemistry techniques globally.
BITHSEC2	TBD (Skill Enhancement 2)	Regional	Practical skills relevant to regional biotechnology industries or research.
BITHGE4	TBD (Generic Elective 4)	Local	Elective designed for specific local academic or developmental needs.





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	BITHCP12	Recombinant DNA Technology Lab	Global	techniques with global research applications. Hands-on genetic engineering techniques for global biotechnology research.
	BITHDSE1	TBD (Discipline-Specific Elective 1)	National	Elective addressing national research or industry-specific needs.
	BITHDSE2	TBD (Discipline-Specific Elective 2)	National	Specialized elective tailored to national developmental priorities.
	BITHCT13	Bio Analytical Tools	Global	Explores analytical techniques essential for global biotechnology research.
	BITHCP13	Bio Analytical Tools (Lab)	Global	Practical skills in bioanalytical tools relevant globally.
	BITHCT14	Genomics and Proteomics	Global	Studies genomic and proteomic technologies with worldwide applications.
	BITHCP14	Genomics and Proteomics (Lab)	Global	Practical skills in genomics and proteomics critical for research globally.
	BITHDSE3	TBD (Discipline-Specific Elective 3)	Regional	Elective tailored to address regional scientific or industrial needs.
	BITHDSE4	TBD (Discipline-Specific Elective 4)	Regional	Elective designed for region- specific applications in biotechnology.
BSc BCA	Code	Subject Name	Developmenta Needs	





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BCAC1	Introduction to Programming usi C	ng Global	Provides foundational programming skills essential for global software development.
BCAGE1	Computer Fundamental with Digital Electronics	Global	Introduces computer basics and digital electronics crucial for globa IT infrastructure.
BCAAECC1	English/MIL/Environmental Science	Global	Enhances communication and environmental awareness with global relevance.
BCAC2	Data Structure	Global	Focuses on data organization and management critical for global computing.
BCAGE2	Discrete Mathematics	Global	Covers mathematical concepts essential for computing and IT globally.
BCAAECC2	Environmental Science/English/MIL	Global	Builds skills in communication and environmental literacy.
BCAC3	DBMS	Global	Introduces database management systems essential for global data solutions.
BCAC4	Object Oriented using C++	Global	Develops object-oriented programming skills with global applications.
BCAGE3	Operating System	Global	Studies operating systems essential for IT management globally.
BCASEC1	Web Technology & Internetworking (HTML/XML/JavaScript/PHP- MySQL)	Global	Develops web development and networking skills critical for global industries.
BCAC5	System Programming	Global	Focuses on programming at the system level relevant globally.
BCAGE4	OOPS Using JAVA	Global	Advances object-oriented programming skills in JAVA with global relevance.



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BCAC6	Data Communication & Computer Network	Global	Studies data transmission and networking vital for global IT infrastructure.
BCASEC2	Computer Graphics & Multimedia	Global	Explores graphical and multimedia tools essential for global creative industries.
BCAC7	Analysis of Algorithm & Graph Algorithm	Global	Studies algorithm design and graph theory applicable worldwide.
BCAC8	Microprocessor & Computer Organization	Global	Focuses on microprocessor design and computer architecture globally.
BCADSE1	Discipline Specific Elective 1 (Software Engineering/Android/PHP- MySQL/Python)	Global	Offers specialization in areas critical for global IT and software development.
BCADSE2	Discipline Specific Elective 2 (IT Tours/Professional Ethics/Entrepreneurship/Soft Skills)	Regional	Focuses on professional and entrepreneurial skills tailored to regional needs.
BCAC9	.NET	Global	Develops application development skills using .NET with global applications.
BCAC10	Theory of Automata and Compiler Design	Global	Explores computation theory and compiler design essential worldwide.
BCADSE3	Discipline Specific Elective 3 (Advanced DBMS/Mobile Computing/Wireless Networking/Unix/Linux)	Global	Offers advanced topics relevant to global IT and computing industries.





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	BCADSE4	Discipline Specific Elective 4 (Cloud Computing/Bioinformatics/AI/Soft Computing)		Provides expertise in emerging technologies with global significance.
BA Education	Subject Code	Subject Name	Developmenta Needs	Description
	EDUHAECC1	Philosophical Foundation of Education	Global	Explores philosophical underpinnings of education relevant worldwide.
	EDUHAECC2	Sociological Foundation of Education	Global	Studies the societal aspects of education with global applications
	EDUHAECC3	Psychological Foundation of Education	Global	Focuses on psychological principles critical for effective education globally.
	EDUHAECC4	Development of Education in India	National	Examines the historical and contemporary development of education in India.
	EDUHAECC5	Psychology of Teaching and Instruction	Global	Explores teaching methods and instructional psychology relevant globally.
	EDUHAECC6	Educational Evaluation	Global	Studies methods of assessing and improving educational outcomes worldwide.
	EDUHAECC7	Education for Differently Abled Children	National	Addresses inclusive education practices tailored to national needs.
	EDUHAECC8	Statistics in Education	Global	Provides statistical tools essential for educational research globally.
	EDUHAECC9	Educational Management	National	Focuses on managing educational institutions with a national perspective.





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EDUHAECC10	Educational Technology	Global	Explores technological tools and their integration into global education systems.
EDUHAECC11	Curriculum Studies	Global	Studies curriculum development applicable in diverse educational settings.
EDUHAECC12	Guidance and Counselling	Global	Provides skills for guiding and counselling students in global contexts.
EDUHAECC13	Psychology of Adjustment	Global	Focuses on psychological adjustment techniques relevant to education globally.
EDUHAECC14	Modern Trends in Education	Global	Explores contemporary educational practices and trends with global relevance.
EDUHASEC1	Yoga Education	National	Promotes mental and physical well-being through yoga tailored to national needs.
EDUHASEC2	Environmental Education	Global	Enhances understanding of ecological issues critical for global sustainability.
EDUHAGE1	Introduction to Education	Local	Provides foundational insights into education tailored to local contexts.
EDUHAGE2	Psychological Foundation of Education	Global	Explores psychological principles relevant to effective education globally.
EDUHAGE3	Philosophical Foundation of Education	Global	Studies philosophical perspectives in education with global applications.
EDUHAGE4	Modern Trends in Education	Global	Focuses on innovative practices in global education systems.
EDUHADSE1	Indian Schools of Philosophy	National	Studies philosophical traditions specific to Indian educational contexts.





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	EDUHADSE2	Skills for Democratic Citizenship	National	Develops skills for democratic engagement relevant to national development.
	EDUHADSE3	Peace and Value Education	Global	Promotes peace and values essential for global harmony and education.
	EDUHADSE4	Communication Skill	Global	Builds communication competencies essential in global educational settings.
BA History	Subject Code	Subject Name	Developmenta Needs	Description
	HISHCC1	History of India-I	National	Explores ancient Indian history critical for understanding national heritage.
	HISHCC2	Social Formations and Cultural Patterns of the Ancient World	Global	Studies ancient societies and cultures relevant to global historical research.
	HISHCC3	History of India-II	National	Examines the evolution of Indian society and culture in the early periods.
	HISHCC4	Social Formations and Cultural Patterns of the Medieval World	Global	Explores medieval societies and their cultural developments with global significance.
	HISHCC5	History of India-III (c. 750-1206)	National	Focuses on the early medieval history of India relevant to national identity.
	HISHCC6	Rise of the Modern West-I	Global	Studies the origins of modernity in the West critical for global understanding.
	HISHCC7	History of India IV (c.1206-1550)	National	Explores the medieval period of Indian history with national relevance.





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HISHCC10 History of India-VI (c. 1750-1857) National Explores the colonial period its impact on India's socio-polandscape. HISHCC11 History of Modern Europe-I (c. Global T780-1939) Studies the political and socior revolutions in modern Europeglobal significance. HISHCC12 History of India-VII (c. 1605-1750s) National Focuses on India's history due the transition to modernity. HISHCC13 History of India-VIII (c. 1857-1950) National Examines India's struggle for independence and the post-colonial transformation. HISHCC14 History of Modern Europe-II Global Studies major events in moderity. HISHSE1 Museums and Archives in India National Develops skills for managing historical artifacts and archive within the country. HISHSE2 Indian History and Culture National Explores Indian cultural herit relevant to national identity indevelopment. HISHDE1 History of United States of America-III (c. 1776–1945) Global Focuses on the growth of the as a global power during key historical periods. HISHDE2 History of the USSR-I (c. 1917—Global Examines the rise and influent the Soviet Union on global publications and including		HISHCC8	Rise of the Modern West-II	Global	Analyzes developments in the West that shaped modern global systems.
HISHCC11 History of Modern Europe-I (c. Global Studies the political and sociarevolutions in modern Europe global significance. HISHCC12 History of India-VII (c. 1605-1750s) National Focuses on India's history due the transition to modernity. HISHCC13 History of India-VIII (c. 1857-1950) National Examines India's struggle for independence and the post-colonial transformation. HISHCC14 History of Modern Europe-II Global Studies major events in mode Europe shaping global politic landscapes. HISHSE1 Museums and Archives in India National Develops skills for managing historical artifacts and archive within the country. HISHSE2 Indian History and Culture National Explores Indian cultural herit relevant to national identity development. HISHDE1 History of United States of America-II (c. 1776–1945) Global Focuses on the growth of the as a global power during key historical periods. HISHDE2 History of the USSR-I (c. 1917– Global Examines the rise and influent the Soviet Union on global pulsed and the Soviet Union on global pulsed Southeast Asia relevant to redynamics. HISHDE3 History of Modern East Asia-II (c. Global Explores East Asia's role in she shorted the soviet Union on global pulsed Southeast Asia relevant to redynamics.		HISHCC9	History of India-V (c. 1550-1605)	National	Examines the Mughal period and its contributions to Indian history.
HISHCC12 History of India-VII (c. 1605-1750s) National Focuses on India's history du the transition to modernity. HISHCC13 History of India-VIII (c. 1857-1950) National Examines India's struggle for independence and the post-colonial transformation. HISHCC14 History of Modern Europe-II (1780-1939) Studies major events in mode Europe shaping global politic landscapes. HISHSE1 Museums and Archives in India National Develops skills for managing historical artifacts and archive within the country. HISHSE2 Indian History and Culture National Explores Indian cultural herit relevant to national identity indevelopment. HISHDE1 History of United States of America-II (c. 1776–1945) Global Focuses on the growth of the as a global power during key historical periods. HISHDE2 History of the USSR-I (c. 1917— Global Examines the rise and influer the Soviet Union on global power during land the Soviet Union on global		HISHCC10	History of India-VI (c. 1750-1857)	National	Explores the colonial period and its impact on India's socio-political landscape.
the transition to modernity. HISHCC13 History of India-VIII (c. 1857-1950) National Examines India's struggle for independence and the post-colonial transformation. HISHCC14 History of Modern Europe-II Global Studies major events in mode Europe shaping global politic landscapes. HISHSE1 Museums and Archives in India National Develops skills for managing historical artifacts and archive within the country. HISHSE2 Indian History and Culture National Explores Indian cultural herit relevant to national identity and development. HISHDE1 History of United States of America-II (c. 1776–1945) Global Focuses on the growth of the as a global power during key historical periods. HISHDE2 History of the USSR-I (c. 1917– Global Examines the rise and influer the Soviet Union on global publication of Southeast Asia - The Regional Analyzes developments in Southeast Asia relevant to redynamics. HISHDE4 History of Modern East Asia-II (c. Global Explores East Asia's role in she she rise and single of the state of the soviet Union on global publication of the Soviet Union on global publication of Southeast Asia relevant to redynamics.		HISHCC11		Global	Studies the political and social revolutions in modern Europe with global significance.
independence and the post- colonial transformation. HISHCC14 History of Modern Europe-II (1780-1939) HISHSE1 Museums and Archives in India Mational Develops skills for managing historical artifacts and archive within the country. HISHSE2 Indian History and Culture National Explores Indian cultural herit relevant to national identity development. HISHDE1 History of United States of America-II (c. 1776–1945) HISHDE2 History of the USSR-I (c. 1917– Global Examines the rise and influer 1964) HISHDE3 History of Southeast Asia - The 20th Century HISHDE4 History of Modern East Asia-II (c. Global Explores East Asia's role in sh		HISHCC12	History of India-VII (c. 1605-1750s	National	Focuses on India's history during the transition to modernity.
HISHDE1 History of the USSR-I (c. 1917— HISHDE2 History of Southeast Asia - The 20th Century HISHDE3 History of Modern East Asia-II (c. Global Explores East Asia's role in sh		HISHCC13	History of India-VIII (c. 1857-1950)	National	
HISHDE2 History of United States of America-II (c. 1776–1945) HISHDE2 History of the USSR-I (c. 1917– Global Examines the rise and influer 1964) HISHDE3 History of Southeast Asia - The 20th Century HISHDE4 History of Modern East Asia-II (c. Global Explores East Asia's role in sh		HISHCC14	,	Global	Studies major events in modern Europe shaping global political landscapes.
HISHDE1 History of United States of America-II (c. 1776–1945) HISHDE2 History of the USSR-I (c. 1917– Global Examines the rise and influer 1964) HISHDE3 History of Southeast Asia - The 20th Century HISHDE4 History of Modern East Asia-II (c. Global Explores East Asia's role in sh		HISHSE1	Museums and Archives in India	National	historical artifacts and archives
America-II (c. 1776–1945) HISHDE2 History of the USSR-I (c. 1917– 1964) HISHDE3 History of Southeast Asia - The 20th Century HISHDE4 History of Modern East Asia-II (c. Global Explores East Asia's role in sh		HISHSE2	Indian History and Culture	National	Explores Indian cultural heritage relevant to national identity and development.
HISHDE3 History of Southeast Asia - The 20th Century Century History of Modern East Asia-II (c. Global Explores East Asia's role in sh		HISHDE1	•	Global	Focuses on the growth of the USA as a global power during key historical periods.
20th Century Southeast Asia relevant to redynamics. HISHDE4 History of Modern East Asia-II (c. Global Explores East Asia's role in sh		HISHDE2		Global	Examines the rise and influence of the Soviet Union on global politics
		HISHDE3	•	Regional	Southeast Asia relevant to regiona
		HISHDE4		Global	Explores East Asia's role in shaping modern global history.





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	HISEGE1	Environmental Issues in India	National	Studies environmental challenges specific to India.
	HISEGE2	History of South West Bengal (Late 18th Century to 1947)	Regional	Focuses on the regional history of South West Bengal during colonial times.
	HISEGE3	Making of Contemporary India	National	Explores the socio-political transformations leading to modern India.
	HISEGE4	Issues in Contemporary World	Global	Examines current global challenges with historical perspectives.
BA English	Subject Code	Subject Name	Developmenta Needs	Description
	ENGHCC1	Indian Classical Literature	National	Explores classical Indian texts essential for understanding India's literary heritage.
	ENGHCC2	European Classical Literature	Global	Studies foundational European literary works with global significance.
	ENGHCC3	British Poetry and Drama: 14th to 17th Century	Global	Focuses on British literary classics that shaped global literary traditions.
	ENGHCC4	British Poetry and Drama: 17th and 18th Centuries	Global	Explores major British works reflecting socio-political and literary trends.
	ENGHCC5	British Literature: 18th Century Prose	Global	Analyzes prose from the Enlightenment era relevant for global literature studies.
	ENGHCC6	British Romantic Literature	Global	Examines Romantic works influencing global literary and cultural movements.
	ENGHCC7	British Literature: Late 19th Century	Global	Focuses on Victorian and late 19th-century British literature with global impact.





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ENGHCC8	British Literature: Early 20th Century	Global	Studies early modernist literature critical for understanding global cultural shifts.
ENGHCC9	Women's Writing	Global	Explores women's voices in literature addressing global gende perspectives.
ENGHCC10	Indian Writing in English	National	Highlights contributions of Indian authors to global English literature.
ENGHCC11	Modern European Drama	Global	Focuses on dramatic works that shaped modern European theatre and literature.
ENGHCC12	Postcolonial Literature	Global	Examines literature from postcolonial nations addressing global power dynamics.
ENGHCC13	Popular Literature	Global	Analyzes genres and forms of literature with mass appeal worldwide.
ENGHCC14	American Literature	Global	Studies American literary contributions critical for understanding global culture.
ENGSEC1	English Language Teaching (ELT)	Global	Develops skills in teaching English, relevant in global educational contexts.
ENGSEC2	Translation Studies	Global	Focuses on translation techniques crucial for cross-cultural communication.
ENGDSE1	Modern Indian Writing in English Translation	National	Explores translated Indian works reflecting regional cultural diversity.
ENGDSE2	British Literature: Post-World War	Global	Analyzes post-war British literature addressing global sociopolitical themes.
ENGDSE3	Literary Criticism	Global	Studies critical theories applicable to global literary analysis.





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	ENGDSE4	Literature and Cinema	Global	Explores the relationship between literary texts and cinematic adaptations globally.
	ENGEGE1	Academic Writing and Composition	Global	Builds essential academic writing skills relevant for global education
	ENGEGE2	Language and Linguistics	Global	Studies language structures and linguistics essential for global communication.
	ENGEGE3	Media and Communication Skills	Global	Develops skills in media and communication applicable globally.
	ENGEGE4	Contemporary India: Women and Empowerment	National	Focuses on gender issues and empowerment specific to contemporary India.
BA Music	Subject Code	Subject Name	Developmenta Needs	Description
	MUSHAECC1T	Theory of Indian Music	National	Introduces theoretical aspects of Indian classical music, reflecting cultural heritage.
	MUSHAECC2P	Vocal Performance	Global	Develops practical vocal skills essential for global performances.
	MUSHAECC3T	Ancient History of Indian Music	National	Explores the origins and development of Indian music relevant to national culture.
	MUSHAECC4P	Basic Knowledge of Raga & Thata	Global	Provides foundational understanding of raga and thata with global musical applications.
	MUSHAECC5T	Theory of Basic Notation System 8 Taal System	Global	Focuses on rhythmic and notational systems essential for global musicology.
	MUSHAECC6P	Practical Knowledge of Tala & Theka	Global	Enhances practical understanding of Indian rhythm patterns with global relevance.





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MUSHAECC7P	Taal Based Songs	National	Introduces compositions based on Indian taal systems reflecting national traditions.
MUSHAECC8T	Basic Knowledge of Acoustics and Aesthetics	Global	Explores the science and aesthetics of sound applicable to global music studies.
MUSHAECC9P	Dhrupad, Dhamar & Khayal	National	Focuses on traditional Indian classical singing styles significant for national identity.
MUSHAECC10P	Rabindra Sangeet & Bengali Song	Regional	Studies Bengali musical forms essential for regional cultural heritage.
MUSHAECC11T	Medieval & Modern History of Indian Music & Gharana	National	Examines the evolution of Indian music and the role of gharanas in national culture.
MUSHAECC12P	Tagore Song, Bengali Songs Based on Kirtan Style	Regional	Focuses on Tagore's compositions and kirtan-style songs reflecting regional traditions.
MUSHAECC13T	Project Work	Local	Encourages research and creative work tailored to local musical contexts.
MUSHAECC14P	Stage Performance	Global	Develops stage performance skills essential for global audiences.
MUSHAGE1T	History of Indian Music	National	Explores historical development of Indian music relevant to cultural heritage.
MUSHAGE2P	Demonstration of Bengali Song & Kheyal	Regional	Practical skills in Bengali and kheyal styles, significant for regional identity.
MUSHAGE3T	Theory of Modern Age	Global	Analyzes the evolution of music during modern times with global relevance.
MUSHAGE4P	Bengali Songs Based on Folk Style & Performance	Regional	Focuses on folk-style Bengali song showcasing regional traditions.





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	MUSHASEC1P	Tuning Tanpura, Tala Demonstration & Voice Training	Global	Provides practical skills in Indian instruments and vocal training applicable worldwide.
	MUSHASEC2P	Technique of Stage Performance & Stage Management	Global	Enhances skills for stage performance and management applicable globally.
	MUSHADSE1T	Theory of Bengali Song	Regional	Examines theoretical aspects of Bengali songs reflecting regional culture.
	MUSHADSE2P	Demonstration of Bengali Song	Regional	Practical skills in performing Bengali songs relevant to regional traditions.
	MUSHADSE3P	Demonstration of Tagore's Composition	Regional	Focuses on performing Tagore's compositions significant to regional heritage.
	MUSHADSE4P	Demonstration of North Indian Classical Songs	Global	Practical exposure to classical North Indian music styles with global applications.
BSc Philosophy	Subject Code	Subject Name	Developmenta Needs	Description
	PHIHACC1	Introduction to Indian Philosophy and Indian Epistemology & Logic	National	Explores foundational Indian philosophical concepts and logical systems.
	PHIHACC2	Greek Philosophy and Western Rationalism	Global	Studies Greek rationalist philosophy essential for understanding global thought.
	PHIHACC3	Indian Metaphysics, Psychology & Ethics	National	Examines Indian metaphysical, ethical, and psychological traditions.
	PHIHACC4	Western Philosophy: From Locke to Hegel	Global	Explores key Western philosophical movements shaping modern global thought.





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PHIHACC5	Deductive Logic & Inductive Logic	Global	Introduces logical principles critical for reasoning and global philosophical discourse.
PHIHACC6	Social and Political Philosophy	Global	Analyzes social and political theories relevant to global sociopolitical challenges.
PHIHACC7	Psychology	Global	Explores psychological theories applicable to understanding globa human behavior.
PHIHACC8	Indian Logic	National	Focuses on traditional Indian logical systems relevant to national intellectual heritage.
PHIHACC9	Truth Functional Logic	Global	Studies logical structures and truth-functional propositions relevant worldwide.
PHIHACC10	Theoretical Ethics	Global	Explores moral theories and their applications in global contexts.
PHIHACC11	Applied Ethics	Global	Examines ethical applications in real-world global issues.
PHIHACC12	Philosophy of Language, Epistemology and Metaphysics	Global	Analyzes language, knowledge, and existence relevant to global philosophical studies.
PHIHACC13	Philosophy of Religion	Global	Examines religious philosophies and their impact on global culture and thought.
PHIHACC14	Philosophical Classics	Global	Studies influential philosophical texts critical for understanding global traditions.
PHIHAGE1	Indian Philosophy	National	Explores Indian philosophical traditions foundational to national culture.
PHIHAGE2	Western Philosophy	Global	Introduces key Western philosophical concepts shaping global intellectual discourse.





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Science		,	Needs	,
BA Political	PHIHADSE9 Subject Code	Phenomenology & Existentialism Subject Name	Global Developmenta	Explores key philosophical movements addressing human existence globally. Description
	PHIHADSE8	Practical Vedanta	National	Focuses on practical applications of Vedantic philosophy in contemporary contexts.
	PHIHADSE7	Humanism	Global	Studies humanist philosophies emphasizing global equality and dignity.
	PHIHADSE6	Practical Ethics	Global	Explores ethical practices and applications in real-world global contexts.
	PHIHADSE5	Theoretical Ethics	Global	Analyzes moral theories and their relevance in global ethical dilemmas.
	PHIHADSE4	Philosophy of Psychology	Global	Examines psychological theories from a philosophical perspective with global relevance.
	PHIHADSE3	Truth Functional Logic	Global	Advanced study of logic focusing on truth-functional propositions worldwide.
	PHIHADSE2	Theories of Western Philosophy	Global	Explores Western philosophical theories critical for global intellectual developments.
	PHIHADSE1	Philosophy of Mind – Indian Perspective	National	Focuses on Indian philosophical perspectives on the mind.
	PHIHAGE4	Psychology and Social Philosophy	Global	Combines psychological insights and social theory with global applications.
	PHIHAGE3	Logic	Global	Studies logical systems essential for global reasoning and critical thinking.





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PLSCHAECC1	Understanding Political Theory	Global	Introduces foundational political theories essential for global political studies.
PLSCHAECC2	Constitutional Government and Democracy in India	National	Explores India's constitutional framework and democratic processes.
PLSCHAECC3	Political Theory: Concept and Debates	Global	Examines key political concepts and debates with global relevance
PLSCHAECC4	Political Process in India	National	Studies the dynamics of India's political processes and governance.
PLSCHAECC5	Introduction to Comparative Government and Politics	Global	Compares political systems and institutions across nations.
PLSCHAECC6	Perspectives on Public Administration	Global	Analyzes public administration theories and practices applicable worldwide.
PLSCHAECC7	Perspectives on International Relations and World History	Global	Explores global political history and international relations theories.
PLSCHAECC8	Political Processes and Institutions in Comparative Perspective	Global	Examines comparative political institutions and their functions globally.
PLSCHAECC9	Public Policy and Administration in India	National	Studies Indian public administration and policy-making processes.
PLSCHAECC10	Global Politics and Indian Foreign Policy since 1945	Global	Analyzes global politics and India's foreign policy in the post-war era.
PLSCHAECC11	Classical Political Philosophy	Global	Examines classical political thinkers and their relevance in modern contexts.





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BA Santali	Subject Code	Subject Name	Developmenta Needs	Description
	PLSCHADSE4	Introduction to Human Rights	Global	Explores the concept and practice of human rights in global governance.
	PLSCHADSE3	United Nations and Global Conflicts	Global	Studies the role of the United Nations in resolving global conflicts.
	PLSCHADSE2	Nationalism in India	National	Revisits the concept of nationalism with a focus on India's historical and political journey.
	PLSCHADSE1	Political Sociology	Global	Explores the intersection of society and politics in global contexts.
	PLSCHAGE4	Constitutional Government in India	National	Focuses on India's constitutional government and its democratic institutions.
	PLSCHAGE3	Governance: Issues and Challenge:	Global	Analyzes governance practices and challenges relevant to global development.
	PLSCHAGE2	Contemporary Political Economy	Global	Examines political economy in the context of contemporary global challenges.
	PLSCHAGE1	Nationalism in India	National	Studies the concept of nationalism in the context of India's historical and political evolution.
	PLSCHAECC14	Modern Indian Political Thought	National	Analyzes modern Indian political ideas and their impact on national identity.
	PLSCHAECC13	Modern Political Philosophy	Global	Focuses on modern political philosophies shaping global political discourse.
	PLSCHAECC12	Ancient and Medieval Indian Political Thought	National	Explores political ideas and systems in ancient and medieval Indian history.





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!	SANHAECC1	Linguistics: Santali	National	Explores linguistic aspects of Santali, essential for preserving Indian heritage.
	SANHAECC2	Santali Grammar	National	Focuses on grammatical structures critical for understanding the Santali language.
	SANHAECC3	History of Santali Literature	National	Studies the historical evolution of Santali literature with cultural relevance.
•	SANHAECC4	Santali Prominent Writers	National	Highlights contributions of key Santali writers to Indian literary traditions.
	SANHAECC5	Santali Folk Literature	Regional	Explores folk literature showcasing Santali culture specific to Eastern India.
	SANHAECC6	Santali Poetry (Pre-Independence)	National	Focuses on Santali poetry reflecting India's cultural and historical heritage.
	SANHAECC7	Santali Poetry (Post- Independence)	National	Examines Santali poetry after independence with relevance to modern literature.
	SANHAECC8	Santali Fiction: Novel & Short Story	National	Studies fictional narratives showcasing the socio-cultural aspects of Santali life.
	SANHAECC9	Austric Language Family	Global	Examines the Austric family of languages to understand its global linguistic connections.
[SANHAECC10	One Act Play	National	Focuses on Santali plays reflecting contemporary societal themes.
	SANHAECC11	Santali Drama	National	Studies dramatic works in Santali essential for understanding its cultural dynamics.
	SANHAECC12	Santali Literary Essays & Magazines	National	Explores Santali essays and magazines showcasing literary and journalistic contributions.





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SANHA	ECC13	Theory of Literature	Global	Examines literary theories applicable to Santali and global literary traditions.
SANHA		Literary Movement (Western & Indian)	Global	Studies major literary movements influencing Santali and Indian literature.
SANHA	DSE1	Santali Prose Literature	National	Focuses on prose works in Santali, showcasing cultural and literary diversity.
SANHA	DSE2	Santali Poetry Literature	National	Studies Santali poetry with thematic and stylistic relevance to Indian traditions.
SANHA	DSE3	Santali Grammar & Linguistics	National	Explores advanced linguistic structures and grammar specific to Santali.
SANHA		Santali Folk Literature (Eastern India)	Regional	Highlights folk traditions and literary works unique to Eastern India.
SANHA		Introduction to Santali Language & Literature	National	Provides foundational insights into Santali's linguistic and literary heritage.
SANHA	GE2	Santali Poems	National	Explores poetic works in Santali reflecting Indian cultural traditions.
SANHA	GE3	Santali Short Story & Novel	National	Focuses on narrative forms showcasing the evolution of Santali fiction.
SANHA	GE4	Santali Literary Essay & Drama	National	Studies essays and dramatic works emphasizing Santali's literary contributions.
SANHA	SEC1	Art of Translation	Global	Develops translation skills crucial for preserving and promoting Santali literature globally.
SANHA	SEC2	Writing Skills	National	Enhances creative and academic writing skills in Santali.





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	BENHAECC1	Historical and Descriptive Bengali Grammar	National	Explores the evolution and structure of Bengali grammar essential for cultural preservation.
	BENHAECC2	Cultural Introduction of Bengal	Regional	Focuses on Bengal's cultural heritage and its historical significance.
	BENHAECC3	Linguistics, Rhythm, and Rhetoric	Global	Analyzes linguistic patterns and rhetorical techniques relevant to global literary studies.
	BENHAECC4	History of Ancient and Medieval Bengali Literature	Regional	Studies the evolution of Bengali literature during ancient and medieval times.
	BENHAECC5	Study of Ancient and Medieval Bengali Literature	Regional	Examines key literary works from ancient and medieval Bengal.
	BENHAECC6	Development of Bengali Poetry	Regional	Explores the growth of Bengali poetry reflecting regional traditions.
	BENHAECC7	Trends in Bengali Fiction	Regional	Focuses on narrative styles and themes in Bengali fiction over time.
	BENHAECC8	Trends in Bengali Drama	Regional	Studies the development of drama in Bengal with a focus on cultural impact.
	BENHAECC9	Bengali Prose and Essays	Regional	Analyzes Bengali prose and essays showcasing regional intellectual thought.
	BENHAECC10	Rabindranath Tagore's Literature	Regional	Explores Tagore's literary contributions critical to Bengali and global literature.
	BENHAECC11	Comparative Studies of Sanskrit and English Literature	Global	Analyzes intersections between Sanskrit and English literary traditions.





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BENHAECC12	Indian Literary Theory	National	Studies traditional Indian literary theories with applications in modern contexts.
BENHAECC13	Literature and Cinema	Global	Explores the relationship between literature and cinema in a global context.
BENHAECC14	Western Literary Theory and Criticism	Global	Analyzes key Western literary theories applicable to Bengali literature.
BENHAGE1	Folk Literature and Culture	Regional	Focuses on folk traditions and their influence on Bengali cultural identity.
BENHAGE2	Children's Literature	Regional	Explores themes and narratives in Bengali children's literature.
BENHAGE3	Science Fiction and Fantasy Literature	Global	Studies Bengali contributions to science fiction and fantasy genres.
BENHAGE4	Biographical and Autobiographical Literature	Global	Examines biographical works and their impact on understanding Bengali history and culture.
BENHADSE1	Modern Bengali Poetry	Regional	Focuses on contemporary poetry trends in Bengal.
BENHADSE2	Modern Bengali Fiction	Regional	Analyzes modern narrative techniques in Bengali fiction.
BENHADSE3	Modern Bengali Drama	Regional	Explores dramatic works reflecting modern themes in Bengali culture
BENHADSE4	Presentation of Critical Analysis	Global	Develops skills in critical literary analysis with global applications.
BENHASEC1	Translation Studies	Global	Enhances skills in translating Bengali works for global audiences.
BENHASEC2	Printing and Publishing	National	Provides knowledge of printing and publishing processes relevant to the national industry.
BENHASEC3	Advertising and Its Practical Aspects	National	Focuses on advertising techniques and their practical applications in India.





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	BENHASEC4	Basic Computer Training	Global	Develops essential computer skills for global academic and professional contexts.
Bcom	Subject Code	Subject Name	Developmenta Needs	Description
	ACNH CC1	Financial Accounting - I	Global	Introduces accounting principles essential for global financial reporting.
	ACNH CC2	Business Law	National	Focuses on legal frameworks relevant to businesses operating ir India.
	ACNH CC3	Cost Accounting	Global	Covers cost management techniques critical for global business operations.
	ACNH CC4	Corporate Law	National	Examines laws governing corporate entities in India.
	ACNH CC5	Principles of Management	Global	Explores management principles applicable to global business environments.
	ACNH CC6	Direct Taxes	National	Studies direct taxation policies relevant to Indian businesses.
	ACNH CC7	Indian Financial System	National	Focuses on the structure and operations of the Indian financial system.
	ACNH CC8	Financial Accounting - II	Global	Advances accounting techniques with applications in global finance
	ACNH CC9	Marketing Management and HRM	Global	Explores strategies in marketing and human resource management applicable worldwide.
	ACNH CC10	Business Mathematics	Global	Provides mathematical tools essential for solving global business problems.
	ACNH CC11	Management Accounting	Global	Covers techniques in management accounting critical for global decision-making.





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ACNH CC12	Entrepreneurship Development	National	Focuses on entrepreneurship with applications in the Indian economy.
ACNH CC13	Auditing & Assurance	Global	Explores auditing principles essential for maintaining global financial integrity.
ACNH CC14	Indirect Taxes	National	Examines GST and other indirect taxes relevant to Indian businesses.
ACNE GE1	Business Economics (Micro and Macro)	Global	Covers economic principles essential for global business analysis.
ACNE GE2	Business Environment & Business Communication	Global	Explores the external business environment and communication skills relevant globally.
ACNE GE3	Business Statistics	Global	Provides statistical tools crucial for global business and economic analysis.
ACNE GE4	Indian Economy	National	Studies the structure and challenges of the Indian economy.
ACNH SE1	Computer Application in Business and E-Commerce	Global	Enhances skills in using technology for global business and e-commerce.
ACNH SE2	Computerized Accounting and E- Filing	National	Focuses on e-filing and computerized accounting systems used in India.
ACNH DS1	Financial Management	Global	Covers financial management principles critical for global business strategies.
ACNH DS2	Financial Reporting and Analysis	Global	Examines reporting standards and analytical techniques used in global finance.





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	ACNH DS3	Corporate Accounting	National	Studies corporate accounting practices relevant to Indian companies.
	ACNH DS4	Field Study, Project Work, and Viva Voce	Local	Encourages practical application of theoretical knowledge in realworld scenarios.
BA Sanskrit	Subject Code	Subject Name	Developmenta Needs	Description
	SANHAECC1	Classical Sanskrit Literature (Poetry)	National	Explores classical Sanskrit poetry highlighting India's rich literary tradition.
	SANHAECC2	Critical Survey of Sanskrit Literature	National	Provides an overview of significant Sanskrit literary works across genres.
	SANHAECC3	Classical Sanskrit Literature (Prose	National	Studies classical Sanskrit prose showcasing India's narrative styles.
	SANHAECC4	Self-Management in the Gītā	Global	Examines the philosophical teachings of the Gītā relevant to personal and global ethics.
	SANHAECC5	Classical Sanskrit Literature (Drama)	National	Focuses on classical Sanskrit dramas reflecting cultural and social themes.
	SANHAECC6	Poetics and Literary Criticism	Global	Analyzes theories of poetics and criticism relevant to global literary studies.
	SANHAECC7	Indian Social Institutions and Polity	National	Studies ancient Indian social structures and political institutions.
	SANHAECC8	Indian Epigraphy, Palaeography, and Chronology	National	Explores inscriptions and scripts significant for India's historical studies.
	SANHAECC9	Modern Sanskrit Literature	National	Examines contemporary Sanskrit literary contributions relevant to India's literary evolution.



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SANHAECC10	Sanskrit and World Literature	Global	Highlights the influence of Sanskri on world literature and cultural exchanges.
SANHAECC11	Vedic Literature	National	Studies Vedic texts essential for understanding India's spiritual and cultural heritage.
SANHAECC12	Sanskrit Grammar	Global	Provides foundational grammatica knowledge essential for global linguistic studies.
SANHAECC13	Indian Ontology and Epistemology	National	Explores philosophical theories of reality and knowledge in Indian traditions.
SANHAECC14	Sanskrit Composition and Communication	Global	Develops skills in Sanskrit writing and communication for academic and cultural purposes.
SANHAGE1	Basic Sanskrit	Local	Introduces basic concepts of Sanskrit language tailored to beginners.
SANHAGE2	Fundamentals of Indian Philosophy	National	Studies Indian philosophical principles with applications in modern contexts.
SANHAGE3	Sanskrit and Other Modern Indian Languages	National	Explores connections between Sanskrit and contemporary Indian languages.
SANHAGE4	Basic Principles of Indian Medicine System (Ayurveda)	Global	Studies Ayurveda's foundational principles with applications in global healthcare.
SANHADSE1	Veda & Vyakarana	National	Focuses on the Vedas and Sanskrit grammar with cultural and academic significance.
SANHADSE2	Darshana	National	Examines Indian philosophical systems and their relevance in modern thought.



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	SANHADSE3	Kavya	National	Studies classical Sanskrit poetry as a reflection of India's literary excellence.
	SANHADSE4	Environmental Awareness in Sanskrit Literature	Global	Highlights ecological themes in Sanskrit texts relevant to global sustainability.
	SANHASEC1	Manuscriptology	National	Provides skills in handling and interpreting ancient Sanskrit manuscripts.
	SANHASEC2	Research Methodology	Global	Develops research skills applicable to global academic and cultural studies.
Training BEd	Subject Code	Subject Name	Developmenta Needs	Description
	1.1.1	Childhood and Growing Up	Global	Examines child development theories and their application in diverse educational settings.
	1.1.2	Contemporary India and Education	National	Explores the socio-political contex of education in India.
	1.1.4	Language Across the Curriculum	Global	Highlights strategies for integrating language skills into various disciplines.
	1.1.5	Understanding Discipline and Subjects	Global	Analyzes the evolution and structure of school subjects and disciplines globally.
	1.1EPC1	Reading and Reflecting on Texts	Global	Develops critical reading and reflective skills essential for effective teaching.
	1.2.3	Learning and Teaching	Global	Studies teaching-learning processes and their implications ir education worldwide.
	1.2.7A	Pedagogy of a School Subject - Part I	National	Focuses on subject-specific pedagogy relevant to Indian school contexts.



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	1.2.8A	Knowledge and Curriculum - Part I	Global	Explores the relationship between knowledge, curriculum, and global educational trends.
	1.2.9	Assessment for Learning	Global	Covers principles and practices of student assessment applicable worldwide.
	1.2EPC2	Drama and Arts in Education	Global	Emphasizes the use of drama and arts as tools for holistic education.
	1.3.7B-A	Pedagogy of a School Subject - Part II	National	Advances subject-specific pedagogical skills tailored to Indian classrooms.
	1.3.7B-B	School Internship	Local	Provides hands-on teaching experience in local school environments.
Training BPEd	Subject Code	Subject Name	Developmenta Needs	Description
	BPEDHAECC1	Foundations of Physical Education	Global	Introduces the principles and history of physical education applicable globally.
	BPEDHAECC2	Health Education, Fitness & Wellness	Global	Focuses on health promotion and wellness strategies with global applications.
	BPEDHAECC3	Human Anatomy and Physiology	Global	Studies human anatomy and physiological functions relevant for physical training worldwide.
	BPEDHAECC4	Sports Management	Global	Explores management principles for sports events and organizations globally.
	BPEDHADSE1	Posture, First Aid & Athletic Care	Global	Develops skills in athletic care and first aid applicable in global sports contexts.
	BPEDHADSE2	Sports Training	Global	Covers advanced training methods and techniques for global sports performance.





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	BPEDHAGE1	Posture, First Aid & Athletic Care	National	Focuses on posture correction and athletic care relevant to local and national needs.
	BPEDHAGE2	Yoga Education	Global	Emphasizes yoga practices for physical and mental well-being with global applications.
	BPEDHASEC1	Track and Field	Global	Provides practical skills in track and field events essential for global sports competitions.
	BPEDHASEC2	Gymnastics and Yoga	Global	Combines gymnastics and yoga practices for holistic physical development.
	BPEDHASEC3	Indian Games and Racket Games	National	Promotes traditional Indian games alongside modern racket sports.
	BPEDHASEC4	Major Ball Games (Football, Volleyball, etc.)	Global	Focuses on team sports essential for global sports engagement and education.
Training MPEd	Subject Code	Subject Name	Developmenta Needs	Description
	MPCC-101	Introduction to Research Process and Statistics	Global	Introduces research methodologies and statistical tools relevant worldwide.
	MPCC-102	Exercise Physiology and Human Performance	Global	Focuses on physiological responses to exercise applicable in global sports sciences.
	MPCC-103	Yogic Science	Global	Explores yoga practices for physical and mental wellness with global relevance.
	MPEC-101	Tests, Measurement and Evaluation in Physical Education	Global	Studies assessment techniques in physical education applicable worldwide.
	MPEC-102	Sports Technology	Global	Covers advancements in sports technologies and their global applications.





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MPPC-101	Track and Field - I	Global	Provides practical skills in track and field events essential for global competitions.
MPPC-102	Sports Major – Swimming and Gymnastics	Global	Focuses on skills in swimming and gymnastics relevant to international sports.
MPPC-103	Self-defense Activities (Karate/Judo/Taekwondo/Wrestling/Lathi)	Global	Develops practical self-defense techniques applicable in global sports contexts.
MPPC-104	Classroom Teaching Lessons	Local	Builds teaching skills tailored to classroom environments in physical education.
MPCC-201	Applied Research and Statistics in Physical Education	Global	Advanced study of research and statistical methods with global applicability.
MPCC-202	Kinesiology and Biomechanics	Global	Examines human movement and mechanics with applications in global sports sciences.
MPCC-203	Athletic Care and Rehabilitation	Global	Focuses on care and rehabilitation techniques critical for global athletics.
MPEC-201	Sports Journalism and Mass Media	Global	Explores the role of media in sports with a focus on global sports reporting.
MPEC-202	Sports Management and Curriculum Design	Global	Covers management principles and curriculum development in physical education globally.
MPPC-201	Track and Field - II	Global	Advanced track and field training with applications in international sports.
MPPC-202	Sports Major – Basketball and Cricket	Global	Focuses on skills and strategies for team sports with global relevance.



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MPPC-203	Yoga: Asanas, Pranayama, and Kriyas	Global	Practical skills in yoga practices for holistic development and global wellness.
MPPC-204	Teaching Lessons: Sports Major	Local	Enhances teaching methodologies for sports-specific lessons in local contexts.
MPCC-301	Scientific Principles of Sports Training	Global	Examines principles of sports training critical for global athletic performance.
MPCC-302	Sports Medicine	Global	Studies medical principles related to sports injuries and treatments worldwide.
MPCC-303	Health Education and Sports Nutrition	Global	Focuses on health and nutrition essential for athletic performance globally.
MPEC-301	Sports Engineering and Technology	Global	Explores innovations in sports engineering with applications in global sports.
MPEC-302	Physical Fitness and Wellness	Global	Covers fitness and wellness principles relevant to global health challenges.
MPPC-301	Sports Major – Football and Racke Games	Global	Develops skills in team and individual sports with international relevance.
MPPC-302	Sports Major – Volleyball and Handball	Global	Focuses on practical training in popular team sports played globally.
MPPC-303	Specialization in Games and Sports – Part I	Global	Provides specialization in selected games with global applications.
MPPC-304	Internship or Project Work	Local	Encourages practical application of theoretical knowledge in local contexts.





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	MPCC-401	Information & Communication Technology (ICT)	Global	Explores ICT tools and their integration into physical education globally.
	MPCC-402	Sports Psychology and Sociology	Global	Examines psychological and sociological factors influencing sports globally.
	MPCC-403	Gender Studies in Physical Education and Sports	Global	Analyzes gender issues and inclusivity in global sports contexts.
	MPEC-401	Value and Environmental Education	Global	Focuses on values and environmental consciousness relevant globally.
	MPEC-402	Education Technology in Physical Education	Global	Covers educational technologies for enhancing physical education globally.
	MPEC-403	Dissertation	Local	Encourages in-depth research on topics relevant to local or regional sports contexts.
	MPPC-401	Development of Conditioning Abilities	Global	Focuses on developing conditioning abilities essential for global athletic performance.
	MPPC-402	Specialization in Games and Sports – Part II	Global	Advanced specialization in selected games with global applications.
	MPPC-403	Coaching Lessons on Sports Specialization	Global	Develops coaching skills for specialized sports with international relevance.
	MPPC-404	Adventure Sports/Outdoor Camping	Global	Provides skills in adventure sports and outdoor activities relevant worldwide.
MA Bengali	Paper Code	Subject	Developmenta Needs	Description
	BNGH101	প্রাচীনওআর্যবানকইন্দো- ইউরোপীয়ভাষারপরিচয়	National	Studies the evolution of Indo- European languages, focusing on Bengali's roots.





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BNGH102	প্রাচীনওমধ্যযুগেরসাহিত্যইতিহাস	National	Explores the history of Bengali literature from ancient to medieval periods.
BNGH103	প্রাচীনওমধ্যযুগেরসাহিত্যপাঠ	National	Focuses on literary works from the ancient and medieval periods of Bengal.
BNGH104	সংস্কৃতসাহিত্যওবাংলাসাহিত্যেতার প্রভাব	National	Examines the influence of Sanskrit literature on Bengali literary traditions.
BNGH105	প্রাচ্যসাহিত্যতত্ত্ব	National	Studies literary theories and traditions specific to the East.
BNGH201	সাধারণভাষাবিজ্ঞান	Global	Introduces linguistic principles relevant for global language studies.
BNGH202	রবীন্দ্রসাহিত্য	National	Analyzes the literary works of Rabindranath Tagore, a cornerstone of Bengali literature.
BNGH203	পাশ্চাত্যসাহিত্যওবাংলাসাহিত্যেতা রপ্রভাব	Global	Studies Western literary influences on Bengali literature.
BNGH204	বাঙালিরসংস্কৃতিওসাহিত্যেরপরিচয়	National	Explores the cultural and literary identity of Bengal.
BNGH205	পা*চাত্যসাহিত্যতত্ত্ব	Global	Analyzes Western literary theories and their applications to Bengali studies.
BNGH301	বিশশতকেরকবিতাওকবিতাপাঠ	National	Studies 20th-century Bengali poetry, reflecting socio-cultural evolution.
BNGH302	বিশশতকেরকথাসাহিত্যপাঠ	National	Focuses on 20th-century Bengali prose and fiction.
BNGH303	বিশশতকেরনাট্যকারদেররচনা	National	Examines the dramatic works of 20th-century Bengali playwrights.
BNGH304	রম্যরচনা	National	Analyzes humorous and satirical writings in Bengali literature.





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BNGH305	বিশশতকেরপ্রবন্ধ– সাহিত্যেরইতিহাসওসাহিত্যপাঠ	National	Studies the history and evolution of Bengali essays in the 20th century.
BNGH401	মধ্যযুগেরসাহিত্য: পাঠান্তর, রূপান্তরওঅনুবাদ	Regional	Explores translation and adaptation of medieval Bengali literary works.
BNGH402	ভারতীয়ভাববাদীআন্দোলনএবংই তিহাসচর্চা	National	Analyzes the Indian spiritual movement and its impact on Bengali literature.
BNGH403	মধ্যযুগেরসাহিত্যপাঠ	Regional	Focuses on the study of medieval Bengali literary texts.
BNGH404	মধ্যযুগেরবাংলারঅনুবাদসাহিত্য	National	Studies translated works from medieval Bengal, highlighting literary exchanges.
BNGH405	প্রকল্পপত্রউপস্থাপন, গ্রন্থসমালোচনাওসাক্ষাৎকার	Local	Encourages critical reviews, interviews, and project presentations.
BNGH402	লোকসংস্কৃতিওলোকসাহিত্য	National	Studies folk literature and culture, emphasizing their importance in Bengali traditions.
BNGH403	লোকসংস্কৃতিওলোকসাহিত্যেরসাধ রণপরিচয়	National	Provides an overview of Bengali folk culture and literature.
BNGH404	লোকসংস্কৃতিওলোকসাহিত্যেরতত্ত্ব ওইতিহাস	National	Analyzes the theories and historical evolution of Bengali folk literature.
BNGH405	লোকসাহিত্যেরবিশ্লেষণ	Regional	Focuses on the thematic and stylistic analysis of Bengali folk literature.
BNGH402	রবীন্দ্রসাহিত্য	National	Studies Tagore's literary contributions across genres.





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	BNGH403	কবিতাওনাটক	National	Focuses on Bengali poetry and drama, emphasizing key literary movements.
	BNGH404	উপন্যাসওছোটগল্প	National	Analyzes Bengali novels and short stories, reflecting societal changes
	BNGH405	প্রবন্ধ, আত্ম- স্মৃতিওরবীন্দ্রকৃতঅনুবাদ	National	Studies essays, memoirs, and Tagore's translations into Bengali.
	BNGH402	নাটক	National	Explores Bengali dramas and their contribution to literary heritage.
	BNGH403	ভারতীয়ওপাশ্চাত্যনাট্যকারদেরবৈ চিত্র্যওতত্ত্ব	Global	Analyzes Indian and Western dramatists' works and theories.
	BNGH404	পূর্ণাঙ্গনাটকপাঠ	National	Focuses on reading and analyzing full-length Bengali plays.
	BNGH405	কাব্যনাট্য, প্রহসনগুএকাঙ্কনাটকপাঠ	National	Explores poetic dramas, farces, and one-act plays in Bengali literature.
	BNGH402	কথাসাহিত্য	National	Studies Bengali narratives, highlighting cultural and thematic diversity.
	BNGH403	কথাসাহিত্যেরবৈচিত্র্যওতত্ত্ব	National	Analyzes the variety and theories of Bengali narrative literature.
	BNGH404	উপন্যাসপাঠ	National	Focuses on detailed study and analysis of Bengali novels.
	BNGH405	ছোটগল্পপাঠ	National	Explores short stories reflecting Bengali culture and modernity.
MA History	Paper Code	Subject Name	Developmenta Needs	Description
	HIS 101	History and Historiography	Global	Introduces historical methods and writing essential for global historical analysis.
	HIS 102	Environmental History of Modern India	National	Explores environmental changes and policies in modern India.





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HIS 103	Socio-Religious Reform Movements in Colonial India	National	Examines social and religious reforms in colonial India relevant to national development.
HIS 104	Industrial Revolution (I): The Nature of the Industrial Revolution & the English Experience	Global	Analyzes the Industrial Revolution with a focus on England's experience.
HIS 105A	India and The World: The Making of a Foreign Policy	National	Studies India's foreign policy and its evolution in the global context.
HIS 105B	Gandhi and Thought	National	Explores Gandhi's philosophies and their impact on India's sociopolitical landscape.
HIS 105C	Military History of India	National	Examines India's military history and its significance in shaping the nation.
HIS 201	State Formation in Ancient India	National	Focuses on political structures and state formation in ancient Indian history.
HIS 202	State and Economy in Colonial India	National	Analyzes economic and administrative policies during British colonial rule.
HIS 203	History of Modern World: Select Themes, 1919-1945	Global	Explores major global events shaping the modern world, including World Wars.
HIS 204	Contemporary World	Global	Studies contemporary global challenges and developments post-1945.
HIS 205A	South West Bengal (17th & 18th Centuries)	Regional	Focuses on the socio-political and economic conditions of South West Bengal.





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HIS 205B	Contemporary World: Select Themes	Global	Explores selected global themes reflecting modernity and change.
HIS 205C	History of Medicine: A Short Introduction	Global	Examines the evolution of medical practices with global relevance.
HIS 301	State and Economy in Early Modern India	National	Studies economic and political transformations in early modern India.
HIS 302	Anti-Colonial Resistance, Decolonization, and After	National	Examines resistance movements and the post-colonial transformation of India.
HIS 303A	Social History of Colonial India	National	Explores social structures and changes during colonial rule.
HIS 303B	South West Bengal: 19th and 20th Centuries	Regional	Focuses on regional history during the 19th and 20th centuries in South West Bengal.
HIS 303C	History of Medicine in Colonial India	National	Studies the intersection of medicine and colonial policies in India.
HIS 303D	Women and Society in Indian History	National	Examines women's roles and societal changes throughout Indian history.
HIS 304	Contemporary India	National	Focuses on modern India's socio- political and economic developments.
HIS 305	Field Work and Project	Local	Encourages practical application of historical research through fieldwork.
HIS 401	Social History of Science, Technology, and Medicine in India: Colonial Period	National	Explores scientific and technological changes during colonial rule in India.
	HIS 205C HIS 301 HIS 302 HIS 303A HIS 303C HIS 303D HIS 304	HIS 205C History of Medicine: A Short Introduction HIS 301 State and Economy in Early Modern India HIS 302 Anti-Colonial Resistance, Decolonization, and After HIS 303A Social History of Colonial India HIS 303B South West Bengal: 19th and 20th Centuries HIS 303C History of Medicine in Colonial India HIS 303D Women and Society in Indian History HIS 304 Contemporary India HIS 305 Field Work and Project HIS 401 Social History of Science, Technology, and Medicine in India:	HIS 205C History of Medicine: A Short Introduction HIS 301 State and Economy in Early Modern India HIS 302 Anti-Colonial Resistance, Decolonization, and After HIS 303A Social History of Colonial India National HIS 303B South West Bengal: 19th and 20th Centuries HIS 303C History of Medicine in Colonial India HIS 303D Women and Society in Indian History HIS 304 Contemporary India National HIS 305 Field Work and Project Local HIS 401 Social History of Science, Technology, and Medicine in India:





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	HIS 402	Industrial Revolution (II): The Continental Experience	Global	Analyzes the Industrial Revolution's impact across Europe
	HIS 403	History of Southeast Asia	Regional	Studies the socio-political and cultural history of Southeast Asia.
	HIS 404A	Historical Methods	Global	Focuses on research methodologies in history applicable to global studies.
	HIS 404B	Agrarian History of Colonial India	National	Examines agricultural policies and their impact during colonial rule.
	HIS 404C	Ideas and Thoughts in Modern India: Select Themes & Personalities	National	Analyzes key ideas and figures shaping modern Indian thought.
	HIS 405	Dissertation and Viva-Voce	Local	Encourages in-depth research on specific historical topics with practical evaluation.
MSc Chemistry	Paper Code	Subject Name	Developmenta Needs	Description
	CEM 101	Physical Chemistry I	Global	Introduces fundamental principles of physical chemistry applicable worldwide.
	CEM 102	Organic Chemistry	Global	Explores basic organic chemistry concepts essential for global applications.
	CEM 103	Inorganic Chemistry	Global	Focuses on inorganic compounds and their properties, relevant globally.
	CEM 104	Food Processing and Preservation and Pharmaceutical Chemistry	National	Studies food preservation techniques and pharmaceutical chemistry tailored to national needs.





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CEM 106	Food and Pharmaceutical Lab	National	Hands-on experience in food chemistry and pharmaceutical applications.
CEM 201	Physical Chemistry II	Global	Advanced study of physical chemistry principles for global scientific applications.
CEM 202	Organic Chemistry II	Global	Focuses on advanced organic chemistry relevant to research and industry worldwide.
CEM 203	Inorganic Chemistry II	Global	Explores advanced inorganic chemistry concepts with global applications.
CEM 204	Nanotechnology: Principles and Practicals	Global	Introduces nanotechnology, a critical field in global scientific innovation.
CEM 205	Physical Practicals II	Global	Provides hands-on experience in physical chemistry experiments.
CEM 206	Organic Practicals II	Global	Practical training in advanced organic chemistry experiments.
CEM 301	Physical Chemistry Special I	Global	Specialization in advanced topics of physical chemistry.
CEM 302	Physical Chemistry Special II	Global	Further specialization in physical chemistry with global research relevance.
CEM 303	Inorganic Chemistry Special I	Global	Focuses on advanced inorganic chemistry topics with global applications.
CEM 304	Inorganic Chemistry Special II	Global	Explores specialized inorganic chemistry areas relevant to global challenges.
CEM 305	Organic Chemistry Special I	Global	Specialization in advanced organic chemistry topics for global applications.
CEM 306	Organic Chemistry Special II	Global	Further study in organic chemistry specialization with global relevance.





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CEM	307 Sp	pectroscopy Fundamental	Global	Introduces spectroscopy techniques essential for global scientific analysis.
CEM	308 Ph	narmaceutical Chemistry	Global	Focuses on the chemical basis of pharmaceuticals relevant to globa health.
CEM		oject (Physical Special/Organic pecial/Inorganic Special)	Local	Encourages application of theoretical knowledge in practical, localized research.
СЕМ	401 Ph	nysical Chemistry Special III	Global	Advanced topics in physical chemistry critical for global scientific progress.
CEM	402 Ph	nysical Chemistry Special IV	Global	Further study in specialized areas of physical chemistry with global relevance.
СЕМ	403 Inc	organic Chemistry Special III	Global	Advanced inorganic chemistry topics tailored for global research challenges.
СЕМ	404 In	organic Chemistry Special IV	Global	Further specialization in inorganic chemistry with global industrial applications.
СЕМ	405 Or	rganic Chemistry Special III	Global	Advanced organic chemistry studies relevant to global scientific and industrial fields.
СЕМ	406 Or	rganic Chemistry Special IV	Global	Focuses on specialized organic chemistry topics with global applications.
CEM		ectroscopy and Structure ucidation	Global	Explores spectroscopy techniques for structure determination relevant globally.
CEM	an	ood Processing and Preservation and Nano Science (Common aper)	Global	Combines food science and nanotechnology for interdisciplinary global applications.





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	CEM 409	Project (Physical Special/Organic Special/Inorganic Special)	Local	Encourages in-depth research in selected specialization areas tailored to local contexts.
MSc Computer Science	Paper Code	Subject Name	Developmenta Needs	Description
	COS-101	Data Structure and Algorithm	Global	Explores fundamental data structures and algorithms critical for global software development.
	COS-102	Advanced Computer Architecture	Global	Studies computer architecture with applications in global IT systems.
	COS-103	Data Communication and Computer Network	Global	Focuses on networking principles essential for global communication infrastructure.
	COS-104	Software Engineering and Project Management	Global	Covers principles of software development and project management applicable globally.
	COS-191	Data Structure Lab	Global	Provides practical experience in implementing data structures and algorithms.
	COS-192	Network Programming Lab	Global	Focuses on hands-on training in network programming relevant worldwide.
	COS-201	Advanced Database Management System	Global	Studies advanced database concepts critical for managing global data systems.
	COS-202	Automata Theory	Global	Explores theoretical foundations of computation relevant to global computer science.
	COS-203	Compiler Construction	Global	Studies principles of compiler design and their application worldwide.
	COS-204	OOPS with Java	Global	Focuses on object-oriented programming in Java applicable in global software industries.





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COS-205	Programming in R	Global	Introduces R programming for statistical computing and data analysis globally.
COS-206	Computer Fundamentals	Global	Provides foundational knowledge of computer science essential for global IT education.
COS-291	DBMS Lab	Global	Offers practical experience in database management systems.
COS-292	OOPS Lab	Global	Hands-on training in object- oriented programming using Java.
COS-293	R Lab	Global	Practical training in data analysis using R programming.
COS-301	Advanced Operating System	Global	Studies advanced concepts in operating systems with global applications.
COS-302	Computer Graphics	Global	Covers principles of graphics design and rendering relevant to global industries.
COS-303	Image Processing	Global	Explores techniques for image analysis and processing critical worldwide.
COS-304	Elective-I	Global	Provides specialization options in emerging computer science fields.
COS-305	DBMS	Global	Advanced study of database management systems for global applications.
COS-306	Internet Technology	Global	Focuses on internet technologies essential for global communication and commerce.
COS-391	Graphics Lab	Global	Practical training in computer graphics techniques.
COS-392	OS Lab	Global	Provides hands-on experience with advanced operating system concepts.





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	COS-393	Industrial Tour / Interview Skills	Local	Offers exposure to local IT industries and interview preparation skills.
	COS-394	Term Paper	Local	Encourages research and academic writing tailored to local contexts.
	COS-401	Artificial Intelligence	Global	Explores AI concepts and applications critical to global technological advancements.
	COS-402	Elective-II	Global	Provides advanced specialization options in computer science fields
	COS-403	Elective-III	Global	Further specialization opportunities in emerging global technologies.
	COS-491	Al Lab	Global	Practical experience in developing Al-based applications.
	COS-492	Project Work	Local	Encourages practical application of theoretical knowledge in local IT projects.
	COS-493	Grand Viva	Global	Comprehensive evaluation of computer science knowledge and skills.
MSc Geography	Paper Code	Subject Name	Developmenta Needs	Description
	GEO-101	Geotectonics	Global	Studies Earth's structural dynamics and plate tectonics relevant globally.
	GEO-101	Geomorphology	Global	Explores landform development processes applicable worldwide.
	GEO-102	Oceanography	Global	Focuses on marine systems and their global ecological and economic importance.
	GEO-102	Hydrology	Global	Examines water systems and their significance in global resource management.





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GEO-103	Climatology	Global	Studies climate systems and their impact on global weather and ecosystems.
GEO-103	Soil and Agricultural Geography	National	Explores soil types and agricultura patterns critical for national development.
GEO-104	Environment and Ecology	Global	Covers global environmental systems and their ecological significance.
GEO-104	Landscape and Ecology	Regional	Focuses on regional landscape dynamics and ecological processes.
GEO-105	Hydrological Techniques	Global	Practical skills in analyzing water systems critical for global applications.
GEO-105	Soil and Environmental Analysis Techniques	Global	Develops laboratory skills for soil and environmental studies.
GEO-106	Basic Statistics in Geography	Global	Provides statistical tools essential for analyzing geographical data globally.
GEO-106	Principles of Remote Sensing and Aerial Photography	Global	Introduces remote sensing technologies critical for global spatial analysis.
GEO-201	Environmental Geography	Global	Studies human-environment interactions and sustainability issues worldwide.
GEO-201	Regional Geography of India	National	Examines India's regional geography focusing on physical and human aspects.
GEO-202	Population and Development Geography	Global	Explores population dynamics and their impact on global development.
GEO-202	Regional Approach in Geography	Global	Focuses on regional geographic methodologies with global applications.





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GEO-203	Settlement Geography	Global	Studies human settlements and their spatial organization globally.
GEO-203	Social and Political Geography	Global	Examines the relationship between social dynamics and political boundaries.
GEO-204	Essentials of Physical Geography	Global	Introduces physical geography concepts relevant to global earth systems.
GEO-204	Essentials of Human Geography	Global	Explores human geography focusing on global cultural and societal patterns.
GEO-205	Thematic Mapping in Physical Geography	Global	Develops skills in thematic mapping of physical features.
GEO-205	Thematic Mapping in Human Geography	Global	Focuses on mapping human geography themes like population and urbanization.
GEO-206	Computer Application in Geographical Data Analysis	Global	Explores data analysis techniques using GIS and other software tools.
GEO-206	Applications of Remote Sensing and GIS	Global	Practical applications of GIS and remote sensing technologies globally.
GEO-301	Economic Zones and Development Programmes in India	National	Examines economic zones and policies tailored for India's development.
GEO-301	Geography of Globalization	Global	Studies the impact of globalization on spatial and economic patterns.
GEO-302	Environmental Ethics and Regulations	Global	Explores ethical issues and regulations related to environmental sustainability.
GEO-302	Transport Geography	Global	Studies transportation systems and their global economic impacts.



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GEO-303	Coastal Processes	Global	Focuses on coastal dynamics and their significance in global geography.
GEO-303	Urban Geography	Global	Examines urbanization processes and city planning challenges worldwide.
GEO-303	Physical Basis of Remote Sensing and Satellite System	Global	Studies satellite systems and their role in physical geography applications.
GEO-304	Emerging Issues in Environmental Geography	Global	Explores current global challenges like climate change and resource depletion.
GEO-304	Geography of Hazards and Disaste Management	Global	Focuses on disaster management strategies relevant globally.
GEO-305	Map Transformation and Geodesy	Global	Provides skills in map transformations and geodetic surveys.
GEO-305	Spatial Analysis in Geography	Global	Explores advanced spatial analysis methods for global geographical studies.
GEO-306	Research Methodology	Global	Develops research skills applicable to global geographical issues.
GEO-401	Schools in Geographical Thought	Global	Examines different schools of thought in geography and their global relevance.
GEO-402	Land Resource Management	Global	Studies sustainable land management practices relevant globally.
GEO-403	Forest Resource Management	Global	Focuses on sustainable management of forest resources worldwide.





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	GEO-404	Coastal Ecology and Hazards	Global	Studies coastal ecosystems and strategies for hazard mitigation globally.
	GEO-405	Advanced Quantitative Methods	Global	Covers advanced statistical techniques for geographical data analysis.
	GEO-406	Special Paper Project	Local	Encourages research tailored to local geographical issues.
MSc Mathematics	Paper Code	Subject Name	Developmenta Needs	Description
	MTM-101	Real Analysis	Global	Explores fundamental concepts of real analysis essential for global mathematics studies.
	MTM-102	Complex Analysis	Global	Studies functions of complex variables critical for advanced global applications.
	MTM-103	Ordinary Differential Equations and Special Functions	Global	Covers differential equations and special functions applicable to global scientific problems.
	MTM-104	Advanced Programming in C and MATLAB	Global	Develops programming skills using C and MATLAB relevant for global computational problems.
	MTM-105	Classical Mechanics and Non- linear Dynamics	Global	Focuses on mechanics and dynamics with applications in global physical systems.
	MTM-106	Graph Theory	Global	Examines graph theory concepts used in computer science, network analysis, and more.
	MTM-107	Lab. 1: Computational Methods: Using MATLAB	Global	Hands-on experience in computational methods using MATLAB.
	MTM-201	Fluid Mechanics	Global	Studies fluid dynamics critical for global engineering and meteorological applications.





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MTM-202	Numerical Analysis	Global	Explores numerical methods essential for solving global mathematical problems.
MTM-203	Abstract Algebra and Linear Algebra	Global	Covers algebraic structures and linear systems with applications worldwide.
C-MTM-204A	Statistical and Numerical Methods	Global	Combines statistics and numerical methods applicable in global research.
C-MTM-204B	History of Mathematics	Global	Examines the historical development of mathematical concepts globally.
MTM-205	General Theory of Continuum Mechanics	Global	Studies continuum mechanics essential for global applications in physics and engineering.
MTM-206	General Topology	Global	Introduces topological concepts relevant for advanced global mathematical studies.
MTM-207	Lab. 2: Language: C-Programming with Numerical Methods	Global	Practical training in numerical methods using C programming.
MTM-301	Partial Differential Equations and Generalized Functions	Global	Explores PDEs and their applications in global scientific modeling.
MTM-302	Transforms and Integral Equations	Global	Covers integral equations and transform techniques for global applications.
MTM-303	Dynamical Oceanology and Meteorology	Global	Focuses on oceanographic and meteorological dynamics critical for global environmental studies.
MTM-304	Operations Research	Global	Explores optimization and decision-making techniques applicable worldwide.





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MTM-305	Discrete Mathematics	Global	Studies discrete structures essential for global computing and cryptography.
MTM-305A	Special Paper-OM: Dynamical Oceanology	Global	Advanced study of ocean dynamics relevant to global environmental issues.
MTM-306A	Special Paper-OM: Dynamical Meteorology -I	Global	Explores meteorological models critical for global weather prediction.
MTM-305B	Special Paper-OR: Advanced Optimization and Operations Research	Global	Advanced study of optimization techniques for global industrial and scientific problems.
MTM-306B	Special Paper-OR: Operational Research Modelling-I	Global	Focuses on modeling techniques in operational research with globa applications.
MTM-401	Functional Analysis	Global	Studies advanced mathematical analysis with applications worldwide.
MTM-402	Fuzzy Mathematics with Applications	Global	Explores fuzzy logic and its applications in global decisionmaking systems.
MTM-402	Soft Computing	Global	Introduces soft computing techniques like neural networks and genetic algorithms.
MTM-403	Magneto Hydro-Dynamics and Stochastic Process and Regression	Global	Studies stochastic processes and MHD relevant for global research in physics and finance.
MTM-404A	Special Paper-OM: Computational Oceanology	Global	Focuses on computational techniques in oceanology for global environmental studies.
MTM-405A	Special Paper-OM: Dynamical Meteorology –II	Global	Advanced study of meteorological dynamics for global atmospheric science.





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	MTM-404B	Special Paper-OR: Nonlinear Optimization	Global	Covers nonlinear optimization techniques used in global industries and research.
	MTM-405B	Special Paper-OR: Operational Research Modelling-II	Global	Advanced OR modeling for global economic and scientific applications.
	MTM-406	Dissertation Project Work	Local	Encourages application of theoretical knowledge to localized research problems.
	MTM-407A	Special Paper-OM: Lab.: Dynamica Meteorology	Global	Hands-on training in meteorological modeling techniques.
	MTM-407B	Special Paper-OR: Lab. OR Methods using MATLAB	Global	Practical training in operational research using MATLAB.
MSc Physics	Paper Code	Subject Name	Developmenta Needs	Description
	PHS 101A	Methods of Mathematical Physics-	Global	Covers mathematical techniques critical for global physics research.
	PHS 102A	Quantum Mechanics-I	Global	Introduces foundational concepts in quantum mechanics relevant worldwide.
	PHS 103A	Electrodynamics	Global	Studies electric and magnetic fields and their applications in global technologies.
	PHS 104A	Analog Electronics-I	Global	Focuses on analog circuit principles essential for global electronic systems.
	PHS 105	Electronics Practical-I	Global	Provides practical skills in electronics and circuit design.
	PHS 106	Computer Practical	Global	Develops computational skills applicable in physics simulations and data analysis.





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PHS 201A	Quantum Mechanics-II	Global	Advanced quantum mechanics topics with applications in global research.
PHS 202A	Solid State Physics-II	Global	Explores the properties of solid materials with global industrial relevance.
PHS 203A	Analog Electronics-II	Global	Builds on analog electronics concepts with advanced global applications.
PHS 204	Concepts of Physics: Inventions and Applications (CBCS)	Global	Examines physics innovations and their applications in everyday global technology.
PHS 205	Electronics Practical-II	Global	Advanced practical training in electronics for global technologica applications.
PHS 206	Advance Practical-I	Global	Provides hands-on experience in advanced experimental physics techniques.
PHS 301A	Quantum Mechanics-III	Global	Further explores quantum mechanics with applications in advanced global technologies.
PHS 302A	Molecular Spectroscopy and Laser Physics	Global	Studies spectroscopy techniques and laser applications relevant worldwide.
PHS 303A	Applied Electronics-Analog (Special Paper-I)	Global	Specialization in applied analog electronics with global industrial relevance.
PHS 304	Science of Universe (CBCS)	Global	Explores astrophysics concepts and the structure of the universe.
PHS 305	Advance Practical-II	Global	Further training in advanced physics experiments applicable globally.
PHS 306	Applied Electronics Practical (Special Paper-I)	Global	Practical training in specialized applied electronics.





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	PHS 401A	Particle Physics	Global	Studies the fundamental particles and their interactions with applications in global research.
	PHS 402A	Nuclear Physics-II	Global	Explores nuclear physics concepts and their technological applications.
	PHS 403A	Semiconductor Devices	Global	Focuses on the principles and applications of semiconductors in global industries.
	PHS 404A	Applied Electronics-Analog (Special Paper-II)	Global	Advanced specialization in analog electronics with global relevance.
	PHS 405	Applied Electronics Practical (Special Paper-II)	Global	Practical experience in advanced analog electronics applications.
	PHS 406	Project, Seminar and Grand Viva	Local	Encourages in-depth research, presentations, and practical assessments tailored to local and global contexts.
Compulsary AECC	Code	Subject	Developmenta Needs	Description
	AECCEL1	Communication Skills in English	Global	Develops effective communication skills in English, essential for globa interaction.
	AECCEL2	Communication Skills in English	Global	Focuses on advanced communication techniques for professional and academic settings.
	AECCEL3	Communication Skills in English	Global	Enhances fluency and clarity in English communication applicable worldwide.
	AECCENV1	Environmental Studies	Global	Introduces environmental challenges and sustainable practices relevant globally.





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AECC	CENV2	Environmental Studies	Explores advanced environmental studies focusing on global conservation efforts.
AECC	CENV3	Environmental Studies	Provides practical insights into environmental issues and their global solutions.

