



OFFICE OF THE PRINCIPAL
SONARI COLLEGE

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**Program Outcomes (POs)
Program Specific Outcomes (PSOs)
and
Course Outcomes (COs)
in
Bachelor of Arts (B.A.)**

***Program Outcomes (PO'S)*
Bachelor of Arts (B.A.)**

- PO1.** This programme will help the students to understand various socio-economic, historical, geographical, and political aspects, conditions, philosophy and changes of the world.
- PO2.** This will enable the students to acquire the understanding of personal and social life.
- PO3.** It will provide practical and useful knowledge on how to cope with the society and serve for the nation.
- PO4.** Graduates will be eligible to appear in a variety of competitive exams or enrol in a postgraduate school of their choice.
- PO5.** The curriculum equips students with human values and ethics necessary to be a responsible citizen for the nation and human society.
- PO6.** It will inspire the students to think and act reasonable.
- PO7.** The students will be ignited to solve the challenges of life and society with courage and humanity for the better life and world.

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Program Specific Outcomes (PSOs)

B.A. in Economics

PSO1 A degree in economics has potentiality of employment in a broad spectrum such as economist, data analyst, actuarial analyst, financial risk analyst, Statistician, data scientist, civil servants, etc.

PSO2 After completion of Bachelor of Arts (B.A.) in Economics students can go for higher education such as Post Graduation in the concerned subject or other related subject of one's interest.

PSO3 A graduate in economics will acquire knowledge on how economy works and what to do for uplift of the economy

PSO4 The programme will enable students to work for people-centred economic activities, remove economic inequality and maintain sustainable development.

Course Outcomes (COs)

B.A. in Economics (Major)

ECO1:01: Microeconomics – I

CO1 To have a better knowledge of certain basic microeconomics principles

CO2 To improve the learner's economic reasoning by analysing the behaviour patterns of various economic agents

CO3 To give students the opportunity to work on advanced theoretical concerns and their practical applications

ECO2:01: Macroeconomics

CO1 To impart knowledge on the fundamentals of macroeconomics and to discuss the income and employment theories, consumption function theories and investment spending theories.

CO2 To discuss on interest rate determination, the IS-LM model and the open economy.

ECO3:01: Microeconomics-II

CO1 Develop the understanding of some basic concepts of microeconomics and to enhance the economic reasoning of the learners to analyse the behavioural patterns of different economic agents.

CO2 To understand the decision making process in different market situations.

CO3 To provide opportunity to deal with the advanced theoretical issues and their practical applications.

CO4 To make the students recognize that proper information of microeconomics may be very a whole lot essential for know-how the contemporary-day modern economy functions.

ECO3:02: Statistical Methods in Economics

CO1 To acquaint the learner with a few fundamental statistical strategies that may be implemented in Economics.

ECO4:01: Mathematics for Economics

CO1 To acquaint with the mathematical methods that can be applied in Economics.

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ECO4:02: Public Economics –Theoretical Issues

CO1 To acquaint the students with some basic theoretical principles and concepts of public finance with a purpose to allow them to recognize the realistic issues.

ECO5:01: Development Economics with Indian Perspective-I

CO1 To familiarize learners with theoretical development measurements and conceptual questions of poverty and inequalities from an Indian perspective.

ECO5:02: Public Economics: Policy Issues

CO1 To familiarize learners about the fiscal policies of developed and developing countries with a particular focus on India's federal system

ECO5:03: History of Economic Thoughts

CO1 To help learners to understand the historical developments in the economic considerations of different schools.

ECO5:04: Monetary Theories and Financial Markets

CO1 To introduce learners to some basic concepts of money analysis and financial marketing related to Indian financial markets.

CO2 Allow learners to relate conceptual problems to real-world situations.

ECO6:01: Development Economics with Indian Perspective-I

CO1 To introduce learners to the development issues of the Indian economy.

CO2 To understand development issues in Northeast India.

ECO6:02: Environmental Economics

CO1 To help learners to understand the basic concepts of environmental economics and the solutions to environmental problems.

ECO6:03: International Economics

CO1 To acquaint the learners with both real and monetary sides of International Economics.

CO2 To help the students to grasp and retain the concepts from traditional to modern, theoretical to analytical developments in International Economics

ECO6:04: Economic Issues of Assam

CO1 To accustom the learners with the characteristics of the economy of Assam.

CO2 The learners will also be able to know the performance and problems of the primary, secondary and tertiary sectors of Assam.

Course Outcomes (COs)
B.A. in Economics (Non-Major)

PAPER 1.01 (Microeconomic Theory)

CO1 To impart knowledge in the basics of microeconomics principles

CO2 To develop the economic reasoning in the behavioural patterns of economic agents

CO3 To provide opportunities to work on advanced theories and their practical applications

PAPER 2.01 (Macroeconomics)

CO1 To acquaint the learners with the basic macroeconomic concepts and the theories of macroeconomics.

PAPER 3.01 (Public Economics)

CO1 To offer the basic concepts of public finance along with a reference to the Indian economy.

PAPER 4.01 (Issues of Indian Economy)

CO1 To aware the learners with the salient features of Indian economy.

CO2 To acquaint the learners with the performance and problems of the primary, secondary and tertiary sectors of Indian Economy

PAPER 5.01 (Elementary Statistics for economics)

CO1 To inform on some statistical data collecting methods and basic statistical methods that can be applied in economics.

PAPER 6.01 (Development Economics)

CO1 To acquaint the learners with the measurement of development with the help of theories along with the conceptual issues of poverty and inequalities which will enable the learners to understand the problems from Indian perspective.

Programme Specific Outcome (PSO)

BA in Education

PSO 1- The Programme (Education) is multidimensional in nature and it provides knowledge of diverse subject to the students.

PSO 2- The programme also provide the practical and firsthand experience of different subject.

Course Outcomes (COs)

B.A. in Education (Major)

CO 1- Philosophical Foundations of Education

- ❖ This course enables the students to develop an understanding about the Meaning, Nature, Scope, aims of Education and some educational aims.
- ❖ This course helps the students to understand the Meaning, Nature, Scope of Philosophy of Education and the relationship between Philosophy and Education.
- ❖ This course also enables the students about nature and educational implications of some Indian schools of Philosophy and Western schools of Philosophy.

CO 2- Sociological Foundations of Education

- ❖ This course enables the students to understand the concept, approaches and theories of educational sociology.
- ❖ It also helps the students to understand social aspect and process related to education, relationship between education changes and development, different political ideologies, their bearings on education, social groups, equality and quality in education.

CO 3- Educational Psychology

- ❖ To enable the students to understand the concept of Psychology and scope and functions of Educational Psychology.
- ❖ To understand different factors of learning including concepts of motivation, intelligence, attention, interest and memory.
- ❖ It helps to understand the concepts of mental health and hygiene for adjustment in society.

CO 4- Educational Measurement and Evaluation

- ❖ To develop understanding of the meaning, nature, scope and need of measurement and evaluation.
- ❖ To familiarize the learners with different types of tools their characteristics and process of construction.
- ❖ To acquaint the learners with some specific tools to measure intelligence, personality and attitude.
- ❖ To develop and understanding of the meaning, nature and application of statistics in measurement and evaluation in education.

CO 5- History of Indian Education (Upto 1947)

- ❖ To introduce students to the educational heritage of our country India and analyze the causes of the social and political changes that took place in India in the 18th and 19th centuries.
- ❖ To develop and understanding o impact of socio-political changes on the nationalist movement in India during early 20th century and the role of education in the development of an emergent India.

CO 6- Great Educators and Educational Thoughts

- ❖ To develop and understanding of the development of educational thought and make conscious of the contribution of educators of different countries to educational theory.
- ❖ To develop and understanding and in- depth analysis of the various issues and problems of Indian Education.

CO 7- Child psychology & Child Guidance

- ❖ To develop and understanding of the importance of child psychology and the need of guidance for child development
- ❖ To enable the students to know about children and new insight about them, the needs and rights of children and also the importance of play in child development.

CO 8- Education in Post Independent India

- ❖ To introduce students about the development of Indian Education, Educational changes in India since Independence, recommendations of different commissions and causes for various educational movements and its accompanying challenges.

CO 9- Educational Technology

- ❖ To develop and understanding of the concept and uses of educational technology in educational system, uses of various mass media in teaching learning process.
- ❖ To enable the students to know about the skills of classroom communication and use of innovative methods of educational technology in teaching learning process.

CO 10- A. Techniques and Methodology of Teaching. B. Practice Teaching

- ❖ To develop and understanding of the concept and Principles of teaching learning process, use of audio- visual aids in classroom, importance of lesson plans for teachers and students and also different methods and approaches of teaching along with the knowledge of teaching different subjects (Micro and Macro Teaching skills).

CO 11- A. Laboratory Practical B. Field report

- ❖ To develop and understanding of the concept and uses of Experimental Psychology and psychological test.
- ❖ The course will help the students to learn, conduct and report the psychological test of various topics through psychological practical.
- ❖ To enable the students to know about the practical knowledge of field work, prepare a report after visit a selected field area and intimate them about the changing educational realities of today's society.

CO 12- Educational Management

- ❖ To develop and understanding of the concept of management and practice of management in education, concept of planning and finance and also Educational Supervision.

CO 13- Education in World Perspective

- ❖ To develop and understanding of the educational system of their own country and comparative idea of own education system with other countries of the globe.
- ❖ To enable the students to know about the drawbacks and challenges of own education system as compared to others and make aware about the plan for reform.

CO 14- Emerging Trends in Indian Education

- ❖ To develop and understanding of the significant trends in Indian education, create awareness about various plan and policies regarding the Educational set up in India, major social and national issues of education and also the non- formal aspects of Indian Education.

Course Outcomes (COs) **B.A. in Education (Non-Major)**

CO 1- Foundations of Education

- ❖ This course enables the students to develop an understanding about the Meaning, Nature, Scope, aims of Education and some educational aims and major components of education and their relationship.

- ❖ This course helps the students to understand the role of education in social change and curriculum in education.

CO 2- Educational Psychology

- ❖ To enable the students to understand the concept of Psychology and scope and functions of Educational Psychology.
- ❖ To understand different factors of learning including concepts of motivation, intelligence, attention, interest and memory.
- ❖ It helps to understand the concepts of mental health and hygiene for adjustment in society.

CO 4- Educational Measurement and Evaluation

- ❖ To develop understanding of the meaning, nature, scope and need of measurement and evaluation.
- ❖ To Familiarize the learners with different types of tools their characteristics and process of construction.
- ❖ To acquaint the learners with some specific tools to measure intelligence, personality and attitude.
- ❖ To develop and understanding of the meaning, nature and application of statistics in measurement and evaluation in education.

CO 4-Contemporary Issues of Indian Education

- ❖ To develop and understanding of the significant trends in Indian education, create awareness about various plan and policies regarding the Educational set up in India, major social and national issues of education and also the non- formal aspects of Indian Education.

CO 5- Developmental History of Indian Education

- ❖ To introduce students to the educational heritage of our country India and characteristics of Education system of different period.
- ❖ To develop and understanding of impact of social-political movements and factors on the development of Indian Education.
- ❖ It will help to create an awareness about emerging changes in the 21st century and preparing them for the challenges of the future.

CO 6- Techniques and Methodology of Teaching

- ❖ To develop and understanding of the concept and Principles of teaching learning process, use of audio- visual aids in classroom, importance of lesson plans for teachers and students and also different methods and approaches of teaching along with the knowledge of teaching different subjects (Micro and Macro Teaching skills).
- ❖ To enable the students understand about the concept and uses of technology in education and communication process in classroom situation.

Programme Specific Outcomes (PSOs)

B.A. (TDC) in Political Science

PSO1. The programme is acquaint the students of Political Science with the western political traditions to the development of Political Science.

PSO2. The programme is acquaint the students of Political Science with the process and dynamics of Indian Politics.

PSO3. The programme is acquaint the students of Political Science with the basic concepts and dynamics of Public Administration and theories and issues and International Relations.

PSO4. The programme is acquaint the students of Political Science with the diverse political system and the sensitive peripheral states of India.

PSO5. The programme is acquaint the students of Political Science with the knowledge of ideological orientation, traditions of Indian Political Thinking and development trends of Indian Foreign Policies.

PSO6. The programme is acquaint the students of Political Science with basic knowledge of International Law, Human Rights, Women's Rights, Rural Development of India and Indian Administration.

Course Outcomes (COs)

B.A. (TDC) Political Science

CSO1. PSM-01: The Course designed to introduce the students the contribution of the main traditions of western political thinkers to Political Thought.

CSO2. PSCM-02: The Course designed to familiarizing students with the processes and dynamics of Indian Politics, contemporary emerging issues, changing pattern of Centre State Relations, Political Parties, demand of autonomy, separatist movement and ethnic conflict etc.

CSO3. PSCM-03: The Course designed to familiarizing the students with the fundamental concepts of Public Administration and New Public Administration.

PSCM-04: The course is designed to acquaint the students with the impotence theories and issues of International Relations which help the students to understanding of the contemporary International issues

CSO4. PSCM-05: The Course designed to familiarizing the students with the diverse political system especially the developed countries along with UK, USA, China and Switzerland.

PSCM 06: The primary aim of this course to understanding with the sensitive peripheral states of India and being the citizens if the North East region it is invariably the concern of the students to have proper understanding of their own area.

CSO5. PSCM-07: The Course designed to providing the students with the knowledge of the basics concepts, developments and ideological orientations of Political

PSCM-08: The Course designed to introduced the students to the contributions of the main traditions of Indian political thinker like Kautilya, Buddhist Political Thinking, M.K. Gandhi, V.D. Savarkar, Muhammad Iqbal, Jawaharlal Nehru, Jyotiba Phule, B.R. Ambeddkar, J. P.Narayan and M.N. Roy.

PSCM-09: The purpose of the course is to acquaint the students with the evolution, development trends of India's Foreign Policy.

PSCM-10: The purpose of the course is to acquaint the students with the basic knowledges, trends, development of International Law and new trends in the realm of International Law.

CSO6. PSCM-11: The Course will provide the basic concepts and issues concerning Human Rights and will acquaint the students with the contemporary challenges.

PSCM-12: The course is designed to generate sensitization for women's issues and problems. It will try to introduce the basic concepts and theories to facilitate the understanding of women's studies. The course will also try to introduce the students to women's activism in India and the West.

PSCM-13: The course is designed to familiarize the students with the problems and prospects of Rural Development in India. It will enable the students to understands the approaches to rural development, objectives of the RDPs, implementing agencies, infrastructure to rural development etc.

PSCM-14: The course is designed on Indian Administration to familiarize the students with the cultural, social, political, economic and constitutional environment as a historical perspective of Indian Administration. It will help the students to development a broad perspective to understand the nature, character and behaviour of Indian Administration.

Programme Specific Outcomes(PSOs)

B.A. Assamese(ASM)

PSO1. Study on History of Assamese literature especially early Assamese fiction & Non-fiction literature

POS2. Study on History of Assamese literature especially modern Assamese fiction & Non-fiction literature

POS3. Study on two area of language & Literature: One of the area of Assamese language & one of the area of old & modern Assamese poetry

POS4. Here, study on two sections: a)Asamese prose, & b)History & theory of various languages & script of Assam

POS5. Here, study on four vast areas: One of the areas is literary theory & literary criticism; Secondly - Assamese drama, Thirdly - Study on Culture: Concept, Classification and Various part of Assamese culture & Fourthly – study on Indian comparative literature

POS6. Here, study on four vast section: a) Mass Communication, b) Indian language & Assamese language, c) Study on Assamese linguistic & d) Concept of world literature

Cours Outcomes(COs) **B.A. Assamese (Major)**

BA-1

ASMM-101(Asomiya Sahityar Buranji)

- CO1:Asomiya sahityar yug bibhajan: Bibhinna mot, parichai & Yug bi bhajanar samashya
- CO2: Lokasahitya : Loksahityar Dharana & Asomia Loksahityar Parichai
- CO3: Pratna Asomiya & Prak-sankari Yug
- CO4: Sankari Yugar Sahitya
- CO5: Sankaruttar Yugar Sahitya

BA-II

ASMM: 201(Asomiya Sahityar Buranji)

- CO1: Adhunik Asomia Sahitya
- CO2: Adhunik Asomia Bhakha Sahityar pratishta: Arunudo, Hemchandra & Gunabhiram
- CO3: Junaki Yugar Sahitya: Patabhumi & Boisisthya
- CO4: Awahan Yugar Sahitya: Patabhumi & Boisisthya
- CO5: Yuddhuttar yugar Asomia Sahitya

BA-III

ASMM:301(Asomiya Bhasabigyanar Porichoy)

- CO1: Bhakhar sangya, Upadan
- CO2: Bhakhabigyanar sangya & adhyayan paddhati
- CO3: Bhakhabigyanar adhyayanar prakar
- CO4: Bhakhar borgikaran
- CO5: Bhakha samparkiya chinta-charchar itihash

ASMM:302(Asomiya Kobitar Adhyayan)

- CO1: Asomiya kobitar sangkhipta itihash
- CO2: Phulkonwar Manikonwarar geet
- CO3: Madhavkandalir Sundarakanda
- CO4: Romantik kobita
- CO5: Adhunik kobita

BA-IV

ASMM: 401(Asomiya Gadya Sahitya)

- CO1: Asomiya Gadya Sahityar Chamu Parichoy
- CO2: Prachin Asomia Godya
- CO3: Adhunik Asomia Godya
- CO4: Chutigalpa: Spandan, Duparia & Phulpahar Sabda
- CO5: Upanyash : Namgharia

ASMM: 402(Asomor Bhasa Aru Lipi)

- CO1: Asomar Bhakha aru Upabhakhasamuhar Porichay
- CO2: Asomia Bhakha aru Upabhakhar bhakhatatwik Baisistya
- CO3: Asomar Chin-Tibbatiya bhakhasamuhar bhakhatatwik Baisistya
- CO4: Asomia Bhakha aru Aryabhinna Bhakhar Adan-Pradan
- CO5: Asomia Bhakhar Lipi aru Asomar anyanya bhakhar Lipi

BA-V

ASMM:501(Sahityatatwa & Samaluchana)

- CO1: Sahitya aru bibhinna sahitya rupa sangya & swarup,
- CO2: Sahitya samaluchanar bibidh paddhati
- CO3: Sabdasakti, rasa & Dhvani
- CO4: Sabdalangkar & Arthalankar
- CO5: Chanda: Chandariti & Chanda sajja

ASMM:502(Asomiya Natak)

- CO1: Asomia natya sahitya & Natyamanchar itihash

CO2: Rambijai
CO3: Gaongburha
CO4: Rupalim
CO5: Eta chular kahini

ASMM:503(Asomiya Songskriti)

CO1: Sangskritir sangya, upadan & swarup
CO2: Asomia jati & Sangskritir samanyayat bibhinna nrigusthia sangskritr avadan
CO3: Asomar bibhinna janagusthir lokasar, Lokbiswash(RMG
CO4: Asomar lok parivesya kala
CO5: Asamar paramparagata saaj-paar, Ai-alangkar, chitra-sthapattya-bhaskarjyar sadharan parichai

ASMM504(Tulanamulak Sahitya Samaluchana)

CO1: Tulanamulak bharatia sahityar swarup: Tulanamulak sahityar sangya, khetra, uthpatti, bikash aru bibhinna sampradai, sampratik goti-bidhi
CO2: Tulanamulak sahityar sahitya addhyanar bibhinna dikhar parichai
CO3: Tulanamulak bharatiya sahityar parichai
CO4: Tulanamulak bharatiya sahityar bostutattik addhyayan
CO5: Tulanamulak Sahityat anubadar bhumika

BA-VI

ASMM: 601(Bhasa Sahitya Adhyayanar Bibidh Dish)

CO1: Ganamadhyamar Porichay aru Prakar
CO2: Electronik aru Chapa madhyamar babe batori pariwekhanar lekhn kola, Bijyapanar Bhakha
CO3: Pandulipi Sampadan
CO4: Sahityar Samajtatwar sadharan Porichay
CO5: Ekabangsa satikar Asomia Batori kakat – Aluchanir goti-prokriti

ASMM: 602(Bharatiya Arya Bhasa aru Asomiya Bhasa)

CO1: Bharatia Arjya bhakhar Kramabikashar Ruprekha
CO2: Bharatia Arjya bhakhar bibhinna starar bhakhar nirbachita path
CO3: Sanskrit pali-prakrit apabhransar tulana
CO4: Asomia bhakhar udbhav, Udbhav samparkiya bibhinna mot
CO5: Asomia bhakhar bikash: Pratna, Prachin, Madhya & Adhunik

ASMM: 603(Asomiya Bhasar Bhasatattik Adhyayan)

CO1: Dhwanibijyan, Dhwanitatwa & Dhwanibijyanar sanjya and prakar
CO2: Asomia bhakhar Dhwanitatwik bis lekhan: Swar & Byanjan nimai
CO3: Rupbijyan : Akriti, Prakriti & Upakriti, Prakritir Chinaktakara, Prakar & Dharana
CO4: Asomia bhakhar ruptatwik bis lekhan
CO5: Asomia bhakhar bakyatatwik bislekhan, Bakyar gathan & Prakar

ASMM: 604(Biswa Sahityar Parichoy)

CO1: Biswa Sahityar dharana
CO2: Abhijyan Sakuntalam
CO3: Nirbachita bidekhi Galpa
CO4: Nirbachita bidekhi Kobita
CO5: Ashrutirtha, Aphkej Ten Ninke Van Hikhtu

BA-I (General)

ASM: 101(Asomiya Sahityar buranji & Asomar sanskriti adhyayan)

CO1: Asomia sahityar yugbibhaja
CO2: Sankari yugar sahityar ghai bikhekhatwasamuh
CO3: Jonaki yugar sahityar ghai bikhekhatwasamuh
CO4: Asomar jatigathanat prajatia upadan
CO5: Sanskritir sanjya & swarup
CO6: Asomar krikhibhitwik udasov-parwan

BA-II (General)

ASM: 201(Asomiya Bhasar Prayugik Gyan)

CO1: Patralekhan:Karjyabiborani, Sankhipta rupar dharana

CO2: Anubadar dharana & Anubadar jyan

CO3: Paribhakhar dharana & Prakhakhanik Paribhakhar saite parichai

CO4: Asomia bhakhar uchcharanar suddhata: Akhar Juntani, Jatuwa thanch, Khandabakya, Sabda gathan, bakya gathan & Jati chihnar prayug

BA-IV (General)**ASM: 401(Asomiya Sahityor Chaneki)**

CO1: Kobita: Suna suna re sura, Puwa, Eitu nahai & Puhartkoi endhar bhal

CO2: Natak : Chur dhara

CO3:Gadya : Jivanar amiya, Bhulai Sharma, Bihur chitra & Bajyanik manashikata gathanar babe bahumukhi prachesta

CO4: Chitigalpa : Elandhu, Udang bakach & Sparkharekha

CO5: Upanyash : Sanchipatar puthi

Program Specific Outcomes(PSOs)**BA ENGLISH MAJOR (NON-CBCS)**

PSO1: Enable students to gain a comprehensive knowledge of English society and culture

PSO2: Introducing students to the synchronic and diachronic aspects of language.

PSO3: Orientation of students with different genres of English literature.

PSO4: Familiarizing students with Indian, American, and postcolonial writing.

PSO5: Developing basic skills in written communication and creative writing

PSO6: Developing basic skills in written communication and creative writing.

PSO7: Initiating basic skills in written communication and creative writing.

PSO8: Familiarizing students with different literary genres.

PSO9: Enable students to develop skills for competitive exam.

Course Outcomes (CO's)**BA ENGLISH MAJOR (NON-CBCS)****BA I****ENGM: 101 (History of English Society and Culture I)**

CO1: To introduce students to the History of English Society and Culture.

CO2: To familiarize learners with events, ideas, personalities and texts that form the backbone of English Literature.

BA II**ENGM: 201 (History of English Society and Culture II)**

CO1: To acquaint students with English Society and Culture from the 18th century to the 20th.

CO2: To conceptualize the movements and issues that define the ethos of the period.

BA III

ENGM: 301 (History of the English Language, Critical Terms, and Classical Mythology)

CO1: Acquaint students with the History of the English Language.

CO2: To familiarize students with major events and characters in classical mythology.

ENGM: 302 (Reading Poetry)

CO1: Acquaint students with major poets and poems from Shakespeare to Eliot.

CO2: To familiarise students with the movements and issues that define the ethos of the period.

BA IV

ENGM: 401 (Reading Prose and Fiction)

CO1: Acquaint students with major essayists, non-fictional prose writers and novelists from Bacon to Jane Austen.

CO2: To familiarise students with the movements and issues define the ethos of the text under scrutiny.

ENGM: 402 (Reading Fiction)

CO1: Acquaint students with major English novels from Dickens to Lawrence, keeping in mind the different socio-political contexts of their origin and reception.

CO2: To familiarise students with the movements that mark the growth of the English novel.

BA V

ENGM: 501 (Reading Drama)

CO1 : To acquaint the students with English drama

CO2 : To familiarise students with the movements that mark the growth of the English drama

ENGM: 502 (Criticism I)

CO1: Initiate students to major critical texts from the classical period, the Renaissance and the neo- classical period.

CO2: To contextualize critical terms and frames of reference for analysis of literary texts.

ENGM: 503 (Great European Thinkers)

CO1: Introduce students with major philosophical texts from the early modern period to the twentieth century.

CO2: To identify the movements and issues that define the critical temper of the texts

ENGM: 504 (Indian Writing in English)

CO1: To acquaint students with Indian Writing in English (IWE) texts.

CO2: To conceptualize the relevance of IWE in the contemporary world.

BA VI

ENGM: 601 (CRITICISM II)

CO1: Acquaint students with major critical texts from the Romantic Period to the 20th century.

CO2: To conceptualize critical terms and frames of reference.

ENGM: 602 (Literature of the USA)

CO1: Introduce students to American texts, its origin and reception in the USA.

CO2: To enable learners to understand the complexities of American culture and its relevance to the Indian situation.

ENGM: 603 (Literature in the Postcolonial World)

CO1: To introduce learners to postcolonial novels.

CO2: To enable students to grasp the complex negotiations between the colonizer and the colonized.

ENGM: 604 (Introduction to Linguistics and Phonetics)

CO1: Introduce students to basic concepts of language.

CO2: To familiarise students with the sound system of English and English syntax.

BA I

ENGM: 101 (General English)

CO1: Impart basic skill in written communication.

CO2 : Learning the use of language and developing skills of analysis and interpretation.

ENGM: 101 (Alternative English)

CO1 : Development of skills in writing and literary appreciation.

CO2 : Introduce students to the genre of poetry.

BA II

ENGM: 201 (General English)

CO1 : Appreciating different kinds of creative writing.

CO2: Inculcating desirable social values.

ENGM: 201 (Alternative English II)

CO1 : Acquainting students with different kinds of creative writing.

CO2 : Familiarize students with famous writers and thinkers.

BA III

ENGM: 301 (Communication Skills)

CO1 : Prepare students for competitive exams.

CO2 : Develop skills and abilities for academic and professional needs.

BA ENGLISH (NON MAJOR)

BA III

ENGNM: 301 (General English)

CO1 : Introducing students to major English poems from the Romantic to the Modern Period.

CO2 : Acquainting students with other literary ethos besides English.

BA IV

ENGNM: 401 (Alternative English)

CO1 : Familiarize students with different literary genres with fiction and short –stories.

CO2 : To introduce students to famous Indian and American writings

Programme Specific Outcome (PSOs)

B.A in History (Major)

PSO1- To develop an understanding about the political, social and economic history of India and the World in a comprehensive manner.

PSO2- Studying about the different developments in history in specific periods like Ancient, Medieval and Colonial period.

PSO3- Developing an understanding about the sources, methods and different interpretations and approaches of History.

PSO4- To study the different aspects of regional history viz. Assam History, relating to different periods.

PSO5- Students will learn about the different branches of history like environmental history, women's history etc.

Course Outcomes (COs)

BA in History

B.A. Ist Semester

101- Introduction to History and its Sources- The course will introduce the students to the basics of History and help them understand the importance of sources of Indian and Assam history.

B.A. 2nd Semester

201- Early and Medieval Assam upto 1826- Students will gain an understanding of the outline of political history of Assam from the earliest times to the occupation by the East India Company.

B.A. 3rd Semester

301- History of Assam 1826-1947- The course introduces the students to aspects of changes and developments in the socio-political and economic life in Assam in the colonial period.

302- Social and Economic History of Assam- The paper provides an understanding of the socio-economic history of ancient, medieval and colonial Assam.

B.A. 4th Semester

401- History of India (From the earliest times to 1200)- Through the course students will be taught about the state systems in North India, development of imperial structure and state formation in the Deccan and the changes in the same.

402- History of India (From 1200-1750)- The paper will acquaint the pupils with political development in India between 1200-1750 i.e., in the pre-modern period.

B.A. 5th Semester

501-History of India (From 1750-1947)- The course will help in understanding the major factors that led to the establishment of the British rule in India and the growth of the nationalist movement leading to independence.

502-History of Europe (1453-1815)- The course helped to understand the major trends and developments which took place in Europe in the Modern Age.

503-History of Europe (1815-1945)- Through the paper students will get to know about the major political developments in Europe from 1815-1945.

504-Tourism in Northeast India: Historical Dimensions - The paper will provide an idea about Tourism in North east India as an industry with reference to the historical monuments and places of Northeast India as heritage sites.

B.A. 6th Semester

601- History of Ecology and Environment in India- The course teaches about the new discipline of ecological/environmental history and aims to familiarize students with the relationship of human civilization with the environment. It also helps understand the environmental movements which took place in India.

602- Women in Indian History- The paper educates the students about the meaning, origin and development of women's history. It also introduces the students to origin of the feminist movement in India and the West and the contributions of various individuals and organisations for securing women's rights.

603- World Revolutions- The students are introduced to significant historical changes in the socio-political and economic life in the world beginning with the 17th century European Enlightenment to the beginning of Globalisation.

604- History of Science and Technology in India- The paper helps understand the developments of Indian science and technology since early times. It also helps know about the country's contribution towards the growth of scientific research and technological development in the world.

**Programme Specific Outcome (PSOs)
B.A. History (Core/ Pass Course)**

PSO1- Knowing about the political, social and economic history of India and Assam.

PSO2- Developing an idea about different periods of history in relation to Indian and Assam history.

PSO5- Students will learn about the different branches of history like environmental history, women's history etc.

B.A. 1st Semester

101- History of Assam: 1228-1826- The paper provides a general outline of the history of Assam from the 13th Century to the occupation of Assam by the English East India Company. In the first quarter of the 19th Century.

B.A. 2nd Semester

201- History of Assam: 1826-1947- The course acquaints the students with the main currents of socio-political and economic developments in Assam during the colonial period.

B.A. 3rd Semester-

301-History of Europe 1453-1815- The paper acquaints the students with the major developments in European politico-economic scenario since the Renaissance till the end of the French Revolution.

B.A. 4th Semester-

401- History of India from the Earliest Times to 1526- The paper helps understand the general outline of the history of India from the earliest times to the coming of the Mughals to India in the beginning of the 16th Century.

B.A. 5th Semester-

501- History of India : 1526-1947- The paper teaches about the general course of events in the field of political, social, cultural and economic affairs in India from the foundation of the Mughal Empire in 1526 to India's independence in 1947.

B.A. 6th Semester-

601- History of Ecology and Environment in India- The course teaches about the new discipline of ecological/environmental history and aims to familiarize students with the relationship of human civilization with the environment. It also helps understand the environmental movements which took place in India.

602- Women in Indian History- The paper educates the students about the meaning, origin and development of women's history. It also introduces the students to origin of the feminist movement in India and the West and the contributions of various individuals and organisations for securing women's rights.

Program Outcomes (POs)
Program Specific Outcomes (PSOs)
and
Course Outcomes (COs)
in
Bachelor of Science (B.Sc.)

Programme Outcome (POs)
Bachelor in Science (BSc)

PO1. Science is directly related to Nature. Scientific studies provide deeper insights of understanding the natural phenomena.

PO2. To develop new technologies, solve practical problems and informed decisions.

PO3. To enhance the scientific outlook of the mankind, and capability to interpret the world in a scientific way.

Programme Specific Outcomes (PSOs)

BSc Botany (General)

BOTGT-101(Lower Cryptogams- Algae, Fungi, Bacteria and Virus, Plant Pathology, Lichen)

PSO1- To introduce the undergraduate students with the basic knowledge of diversity of plant kingdom

BOTGT-201(Bryophytes, Pteridophytes, & Gymnosperms)

PSO2- To introduce the undergraduate students with the basic knowledge of structure, forms and reproduction, evolution of tissue systems, seed habit in higher cryptogams & Gymnosperms.

BOTGT-301(Morphology, Taxonomy, Development and Reproduction of Angiosperms)

PSO3- To introduce the undergraduate students with the terminologies used in description of angiospermic plants, basic knowledge of plant classification, tissues & tissue systems, development of primary & secondary plant bodies and their functions.

BOTGT-401(Physiology & Economic Botany)

PSO4- To introduce the undergraduate students with the basic knowledge of physiological activities of plants and the role of external factors upon them.

BOTGT-501(Cytogenetics, Evolution & Biostatistics)

PSO5- To introduce the undergraduate students with the basic knowledge of structure and function of cell and organelles, principles of genetics, evolution and statistical tools useful in biology.

BOTGT-601(Biochemistry, Plant Ecology and Plant Geography)

PSO6- To introduce the undergraduate students with the basic knowledge of biochemistry, ecological importance of plants and their distribution.

Course Outcomes (COs)

B.Sc. Botany (Major)

BSc- I

BOTMT- 101(Algae, Fungi and Lichen)

CO- To provide basic knowledge of thallus, morphology, reproduction and evolution of lower cryptogams and plant pathology.

BSc- II

BOTMT- 201(Plant Pathology and Bryophytes)

CO- To provide fundamental knowledge on the structure, morphology, reproduction, alternation of generation and tissue organisation and spore dispersal mechanisms in Bryophytes.

BSc- III

BOTM-301(Pteridophytes, Gymnosperms and Palaeobotany)

CO1- To provide comparative account of structural morphology, distribution anatomy, reproduction and evolution of seed habit in higher cryptogams; special emphasis is to be given on the stellar structure and evolutionary links.

CO2- To introduce the students with the basic knowledge of microbiology and biotechnology in the light of recent developments.

BSc- IV

BOTMT- 401(Morphology and Taxonomy of Angiosperms)

CO1- To provide fundamentals of Angiosperm morphology and classification with special reference to the polygenetic relationship of various taxa.

BOTMT-403(Cell Biology and Modern Laboratory Technique)

CO2- To provide fundamental knowledge of structural and functional aspects of cell and cell organelles and the tools and techniques used in modern biological study.

BSc- V

BOTMT- 501(Development and Reproduction in Angiosperms)

CO1- To provide fundamental knowledge of structural and functional aspects of cell and cell organelles and the tools and techniques used in modern biological study.

BOTMT-503(Genetics and Plant Breeding, Biostatistics)

CO2- To introduce the students with the basic knowledge on plant genetics and application of genetic for improvement of crop , application of statistics in biology.

BOTMT-505(Functional and Chemical Biology)

CO3- To introduce the students with the basic knowledge of modern approaches to functional and chemical biology of plants.

BOTMT-507(Plant Ecology, Phytogeography and Evolution)

CO4- To introduce the students with the basic principles and concepts of plant ecology, structure and function of natural plant units, habitat degradation and role of plant on improvement of habitat, conservation ecology, phytogeography and evolution.

BSc- VI

BOTMT-601(Plant Physiology)

CO1- To introduce the students with the basic knowledge on major physiological aspects of plants.

BOTMT-603(Molecular Biology and Immunology)

CO2- To introduce the students with the fundamentals of molecular biology and immunology.

BOTMT-604(Biophysics and Bioinformatics)

CO3- To introduce the students with the tools and techniques of physical and computer sciences used in biological study.

BOTMT-606(Agrotechnology and Sustainable Utilization of Plants)

CO4- To provide students comprehensive knowledge of usefulness of plant resources for human welfare.

Programme Specific Outcomes (PSO's)

BA/BSc in Mathematics

PSO1. Mathematics is a branch and key language of science that able to describe the real-world problems.

PSO2. To develop new mathematical theories and methods and to evolve the new branches of mathematics with co-exist of other branches of science and humanities.

PSO3. Computational knowledge in mathematics provides better insight and interest of the BSc Mathematics students.

Course Outcomes (CO's)
BSc/BA Mathematics (Non-Major)

BSc/BA-I

NM-101 (Classical Algebra, Trigonometry, Vector Calculus)

CO1. To fill the gap and to make the transfer from classical algebra to advanced course of analytical structures as smooth as possible.

CO2. To get deeper knowledge in development of generalized notions of Trigonometry and to learn efficient techniques to simplify higher Trigonometric expressions.

CO3. Students will learn different aspects of applications of the notions of the scalar and vector products, multivariable calculus.

BSc/BA-II

NM-201 (Matrices, Ordinary Differential Equations, Numerical Analysis)

CO1. To get deeper insight in Matrix algebra and able to apply the theory of matrix algebra in solving real world problems.

CO2. Students will introduce the new techniques in solving of ordinary differential equations of first order and then the higher order which are highly applicable in engineering problems, mathematical model used in real life problems.

CO3. To better understandings of the numerical methods such as Bisection, Newton-Raphson etc. and their applications in engineering fields.

BSc/BA-III

NM-301 [Co-ordinate Geometry, Analysis-I (Real analysis)]

CO1. Develop the understanding of Co-ordinate geometry.

CO2. To learn the analytical aspects of mathematical concepts such as limit, continuity, derivatives, integration etc.

BSc/BA-IV

NM-401 [Linear Programming Problem, Computer Lab (MATLAB , Mathematica)]

CO1. An introduction of programming knowledge will be taught. Students will be able to develop simple programmes for numerical interests using C-Programming and MATLAB.

CO2. To provide a rigorous and complete development of the theoretical and computational aspects of linear programming as well as discussion of several practical applications.

Programme Specific Outcome B Sc. In Chemistry

PSO 1: Understand the basic concept of organic, inorganic and physical chemistry along with its details and significance.

PSO 2: To study the chemistry of molecules, its synthesis, structure determination and their application in industry as well as pharma sector.

PSO 3: Approach to introduce with the different laboratory tools and techniques to identify, synthesize and analyze different chemical compounds.

Department of Chemistry

Course Outcome: (B.SC. Chemistry)

CO 1: Introduction of basic inorganic and physical chemistry

CO 2: Concept of basic organic chemistry and importance of chemical thermodynamics.

CO 3: Details about metals, noble gases, hydrocarbons and kinetics.

CO 4: Introduction of coordination chemistry and transition elements along with demonstration of different classes of N-based organic compounds. This course also briefly explains about the important areas of electrochemistry and conductance.

CO 5: Concept of biochemistry along with the introduction of molecular spectroscopy as well aspects of quantum chemistry.

CO 6: This particular course focuses on the study of organometallic compounds and the introduction of the components of industrial chemistry.

Course Outcomes (PSOs)

B. Sc Physics (PHY)

SEM 1:

C-1: Mathematical physics

From this paper students can learn vectors and rules of vector product, triple product, vector differential, ordinary, orthogonal curvilinear and other mathematical applications. Moreover they are able to learn the practical applications by using computing tools.

C-2:Mechanics

From this student are able to gain basic concepts of mechanics such as fundamental laws of physics, a unique mechanical problem like harmonic oscillator and fundamental knowledge of relativity.

SEM-2:

C- 3 :Electricity and magnetism

Students are able to learn basic knowledge of electricity and magnetism and also experimental skill of electrical networking system.

C-4:Waves and optics

From C-4 they are able to learn basic wave motion and principle of different phenomena like interaction of light.

SEM-3:

C-5 :Mathematical physics

Mathematics is a useful tool for application of physics. From this paper they can able to learn important theorems like Fourier Series, Frobenius method and some special integrals.

C-6:Thermal physics

Gives the knowledge of laws of thermodynamics in real world problems.

C-7:Digital systems and applications

This paper is enable to a student to identify and understand digital electronic principles and systems, and also it can build real life applications using digital systems

SEM-4:

C-8:Mathematical physics

From this paper they can gain knowledge of complex variables, Cauchy's formula etc. Also with practical applications they achieved use of mathematical methods for physics & Engineer's.

C-9:Elements of modern physics

This paper appreciated to understand the theory of modern physics. Also they achieved the ability to apply it in solving problems in quantum mechanics.

C-10:Analog systems and Applications

This paper gave the knowledge of analog of electronic systems.

SEM-5:**C-11: Quantum Mechanics and applications**

From this paper students can able to know how quantum mechanics is used to solve physical systems in different areas of science.

C-12: Solid State Physics

Give the basic concepts of solid state physics, both in theoretical and experimental aspects.

SEM-6:**C-13: Electromagnetic theory**

This paper provides the solution of problems of interfaces between media with different boundary conditions.

C-14: Statistical Mechanics

This paper equipped the students with basic knowledge of statistical mechanics and solutions of physical problems.

5th Sem: (Students choose)**DSE -1: Classical mechanics**

This paper prepare for the study of modern physics and give knowledge of relativity.

DSE-2: Astronomy and Astrophysics

This paper provide basic knowledge of Astrophysics

6th Sem:**DSE-3: Nuclear physics**

Develop knowledge regarding nuclear and particle physics.

DSE-4: Nano Physics

This paper will provide fundamental knowledge of Nano particles.

Semester System**Sem-1, PHYM10100: Mechanics and properties of matter**

Study of basic concept of matter and it's application and planetary motion.

Sem-2, PHYM20100: Thermal physics and Waves and Oscillation

Concept of heat and thermodynamics and uses of different laws in day to day life. Effect of sound.

Sem-3, PHYM30100: Optics:

Different optical instrument that are used in different purpose.

Sem-3, PHYM30200: Electricity and magnetism

Magnetic effect and different electrical circuit and its instrument that are used for different applications.

Sem-4, PHYM40100: Mathematical Physics.

This paper gives basic idea about vector calculus, Tensor algebra, Matrices and Calculus of variation.

Sem-4, PHYM40200: Quantum Mechanics

Quantum Mechanics helps in understanding phenomena found in nature as well as developing technologies on quantum effects like integrated circuits and lasers and also for understanding how individual atoms are joined by covalent bonds to form molecule.

Sem-5, PHYM50100: Mathematical Physics.

Differential equation helps the rate of change of quantity, tangent and normal to a curve.

Fourier series gives knowledge on vibration analysis, acoustics, optics, and quantum mechanics.

PHYM50200: Electro dynamical and special theory of Relativity.

Electrodynamics: It helps to study the charged body in motion varying electronic and magnetic field.

Relativity: Study about the behaviour of object in space and time, existence of Black Hole, to light bounding due to gravity etc.

PHYM, 50300: Atomic and Molecular physics.

Students study the structure of atom, it's energy states and it's interactions with other particles and with electric magnetic field.

PHYM, 50400: Electronics.

Learn about the uses of electronics devices in computer, telecommunications, in integrated circuit etc.

Sem-6, PHYM600100: Statistical Mechanism.

Study the physical and physicochemical systems such as solids, liquid and gases, interfaces etc.

PHYM60200: Condensed Matter Physics.

This gives fundamental knowledge of structure of atom and usefulness. Working on materials or devices with application as transistors, memory, battery, LED etc. Knowledge of super conductor and it's application.

PHYM, 60300: Nuclear Physics.

It provides information about the structure of nuclear. In nuclear physics several transmutation concepts have been discussed and the use of thermal and fast fission reactors and high intensity particles.

PHYM, 60400(430): Laser and it's application.

It gives the idea of production of laser, rays and it's application.

Programme outcome

B. Sc in Zoology (Major)

The main objective of the course is to provide in-depth knowledge about biodiversity, their development and interaction with environment. The study of Physiology, Endocrinology, Cell Biology and Molecular Biology has been included to provide in-depth knowledge of the subject courses on instrumentation and techniques including Biostatistics, Biotechnology and Bioinformatics are included to provide the students with recent development in the field of biology.

The program will familiarize the students with Animal classifications, Genetics, Biochemistry, Biodiversity, Public Health and Hygiene, Animal physiology, Endocrinology, Apiculture etc. the program will improve the knowledge and perceptions pertaining to animal behavior, its adaptations and evolutionary aspects. The program will enhance technical skill in biological sciences with an opportunity for future research.

Course Outcome

B.Sc. in Zoology(Major)

Semester I

Course- ZooMT 101 Non- Chordate diversity, Systematics and Evolution

Co1 The course enhance the Knowledge of Invertebrate/ Non Chordate animal world; their anatomy, mode of life, physiology etc.

Co2 The course gives details of systematic and classification, form and hierarchy of classification: modern concept of Taxonomy and nomenclature.

Course-ZooMP 102 Practical based on ZooMT 101

CO- This course gives the idea of practical knowledge of Non chordate animal world and Systematics and Evolution.

Semester II

Course- ZooMT-201- Biochemistry

Co1- This course gives the knowledge of biochemistry and biochemical phenomenon of cell and animals.

Co2- This course gives the knowledge of genetical relations of biological phenomena, structure of nucleic acids and its functions. The course give knowledge of internal biochemical functions of animal body as well as cell.

Course-ZooMP 202 Practical based on ZooMT 201

Co- this course gives the practical knowledge of biochemical phenomenon of theory paper 201.

Semester III

Course- ZooMT-301- Chordate diversity and comparative anatomy.

Co1- This course gives the knowledge of Chordate world , its classification , their habit and habitat. The course gives the knowledgs of chordate animal life cycle, all the process of specific phenomena and speciality of Chordate animals. The course give the knowledge of different category of chordate animals.

Co2- This course gives the knowledge of genetical relations of biological phenomena, structure of nucleic acids and its functions. The course give knowledge of internal biochemical functions of animal body as well as cell.

Course-ZooMP 302 Practical based on ZooMT 301

Co- this course gives the practical knowledge of overall chordate animals of theory paper 201.

Semester III

Course- ZooMT-303- Bioinstrumentation and Biostatistics

Co1- This course gives the knowledge of Instrumentation used in biological experiment. The course gives the theoretical knowledge of tools and techniques used in Biology for different Experiment.

Co2- This course gives the knowledge of Scope and utility of statistics in Bioscience; Sampling, collection and graphical representation of data ; measures of statistical average; mean deviation and standard deviation; Probability tests; Correlation and regression; Significance tests (t, F and X² tests)

Course-ZooMP 304 Practical based on ZooMT 303

Co- this course gives the practical knowledge of bioinstrumentation and biostatics as in paper 303.

Semester IV

Course- ZooMT-401- Cell Biology, Histology & Histochemistry

Co1- This course gives the knowledge of Cell biology. Cellular organelles structure and functions, structure of Chromosome, cell cycle, cell division etc.

Co2- Basic concept of cell signalling (endocrine, paracrine and autocrine signalling); second messengers; function of cell surface receptors- G protein-coupled receptors and G-proteins

Co 3- Histological methods- basic principles of fixation, dehydration, embedding, sectioning and spreading; types of staining; vital staining; classification and properties of dyes; metachromatic dyes and staining; animal tissues- types and functions; histological structure of muscles, epithelium, bone, lung, kidney, liver, stomach and intestine of mammals.

Course-ZooMP 402 Practical based on ZooMT 401

Co- this course gives the practical knowledge of cell biology. Course gives the knowledge of tools and technique of cell biology experiment.

Course- ZooMT-403- Developmental Biology

Co1- This course gives the knowledge of developmental process of animals.

Co2- the course gives basic concept of various stages and organs formed during developmental process.

Course-ZooMP 404 Practical based on ZooMT 403

Co- this course gives the practical knowledge of developmental study.

Semester V

Course- ZooMT-501- Genetics and Evolution

Co1- This course gives the knowledge molecular level study of gene. The course geves basic ideas of various disease associated with genetic problems.

Co2- Basic concept of Evolutionary process, concept of population and theories of evolution.

Course-ZooMP 502 Practical based on ZooMT 501

Co- this course gives the practical knowledge of genetics study and study of evolutionary significance.

Course- ZooMT-503- Animal Physiology

Co1- This course gives the knowledge of structure and functions of all vital organ systems of human being.

Co2- Basic concept of life activities of human organ systems has given by the course.

Course-ZooMP 504 Practical based on ZooMT 503

Co- this course gives the practical knowledge of physiological activities of human.

Course- ZooMT-505- Environmental biology

Co1- This course gives the knowledge of environmental biology its significance.

Co2- The course gives basic concept of various issues related to environment.

Course-ZooMP 506 Practical based on ZooMT 505

Co- This course gives the practical knowledge of environmental biology and factors with issues.

Course- ZooMT-507- Endocrinology

Co1- This course gives the structure and functions of Endocrine glands.

Co2- Basic concept of comparative study of endocrine systems of various categories of animals

Course-ZooMP 508 Practical based on ZooMT 507

Co- this course gives the practical knowledge of Endocrine glands.

Semester VI

Course- ZooMT-601- Parasitology and Ethology

Co1- This course gives the knowledge of habit and habitat of Parasites.

Co2- The course gives basic concept of animal behavior, various kinds of orientation and communication behaviours in animals

Course-ZooMP 602 Practical based on ZooMT 601

Co- This course gives the practical knowledge of parasite and parasitism and behaviours.

Course- ZooMT-603- Molecular biology and Immunology

Co1- This course gives the knowledge of Molecular study of DNA and RNA, its structure and molecular functions, recombination, transfusion, transcription, Gene expression etc.

Co2- The course gives basic concept of Immunity, antigen, antibody, its reaction, vaccination, etc.

Co3- The course gives basic concept of structure of Immunoglobulins, health and disease, concept of immunodiagnostic techniques.

Course- ZooMT-604 Biotechnology and bioinformatics

Co1- This course gives the knowledge of biotechnology, techniques used in biotechnology, importance of biotechnology and ethical issues, future perspectives etc.

Co2- The course gives basic concept of bioinformatics, source of information, database its sequence and alignment, tools used in bioinformatics and steps in evolution of phylogeny and constructing phylogenetic trees.

Course-ZooMP 605 Practical based on ZooMT 603 & 604

Co- this course gives the practical knowledge of Molecular biology, Immunology, Biotechnology and Bioinformatics.

Course- ZooMT-606- Economic Zoology

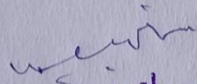
Co1- This course gives the knowledge Economic Zoology which include Productive cultivation of fish, poultry, Piggery, bee etc.

Co2- The course gives basic concept of pest and its management.

Co3. The course give knowledge of sericulture and other techniques

Course-ZooMP 607 Practical based on ZooMT 606

Co- this course gives the practical knowledge course 606.


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