FYUG
PROGRAM/COURSE OUTCOME
DIPHU GOVERNMENT COLLEGE, DIPHU
KARBI ANGLONG, ASSAM, PIN: 782462

DEPARTMENT OF ASSAMESE			
Sl No	Course Code	Course Name	Outcome
1	ASMDSC-101T	History Of Assamese Literature-I	This course is intended to give an outline to the history of the Assamese literature. In this course students will know the history of Assamese literature of Ancient and Medieval period. Students will also understand the characteristics of Assamese literature in that time.
2	ASMDSC-102T	History of Assamese Language	This course is intended to give an outline to the history of Assamese language Students will also understand the development of Assamese Language.
3	ASMDSC-151T	History of Assamese Literature-II	This course aims to get students acquainted with the knowledge of modern Assamese literature and modern literary terms. Students will also understand the characteristics of Assamese literature in modern time.
4	ASMDSC-152T	Grammar of Assamese Grammar	With this course students will gain knowledge about the Phonological, morphological characteristics of Assamese language.
5	ASMDSC - 201T	Language Varieties and Assamese Language	This course aims to get students enlightened with the various languages of the world and their classification. They also know about the Assamese languages stands in this language family.
6	ASMDSC- 202T	Assamese Poetry : Old & Modern	The main aim of the course is to make students familiar with the Poetry. They also go through various selected Assamese poetries of various times (Old & Modern)
7	ASMDSC-251T	Introduction to the Linguistics	This course aims to get students acquainted with the knowledge of Linguistics. They will also get the concept of Phonology, Morphology etc.
8	ASMDSC-252T	Assamese Drama (Ancient & Modern)	The main aim of the course is to make students familiar with the Assamese Plays.

			They also go through various selected Assamese plays of different times (ancient & modern)
9	ASMDSC-253T	Assamese Culture	This course aims to get students acquainted with various aspects of folk life and culture. This course aims to get students enlightened with the knowledge of Assamese Cultural behavior.
10	ASMDSC- 301T	Literary Criticism: East and West	This course aims to get students acquainted with varied categories and techniques of literature. They will also gain the knowledge about the various literary movements and literary terms as well.
11	ASMDSC- 302T	Assamese Novel and Short Stories	The main aim of the course is to make students familiar with the Novels and Short Stories through various selected Assamese Novels and Short Stories. Thus students will know the trends and characteristics of Assamese Novels and Short Stories.
12	ASMDSC- 303T	Pali-Prakrit-Apabhramsha Language, Literature and Grammar	The main aim of the course is to make students familiar with the development of Assamese Language from its beginning. Students also understand the characteristics of Pali, Prakrit and Apabhramsha Language and the various literature of that period.
13	ASMDSC-351T	Assamese Prose	This course aims to get students acquainted with the development of Assamese prose from starting to present time and also acquire the knowledge of various characteristics of Assamese prose.
14	ASMDSC-352 T	Literary Movements and Assamese Literature	This paper will enable students to have a broad understanding of some important texts on literary criticism and literary theory and also enlightens the students on the various budges in literary interpretation. The paper endows them with knowledge while reading texts across genres. Students will also understand the effects of such movements in Assamese literature.
15	ASMDSC-353T	Assamese Folk Culture	This course aims to get students acquainted with various aspects of folk life and culture. This course aims to gets students enlightened with the knowledge of Assamese Cultural behavior.
16	ASMDSC-354 T	Comparative Indian Literature	This paper will encourage and acquaint the students with World through the study of

			selected texts. It basically provides knowledge about the different literatures of the world with the help of some important texts that surpasses cultural barriers.
17	ASMDSC- 401T	Study of an Important Text	This course aims to get students acquainted with the literature of a particular time. After completion of this course students will understands the culture, society, language etc of that time.
18	ASMDSC- 402T	Assamese Performing Arts	This course aims to get students acquainted with various aspects of folk life and culture. Students will learn about the various performing arts performed in Assam.
19	ASMDSC- 403T	Morphology and Assamese Language	This course aims to get students acquainted with various aspects of Assamese Language. They will get the knowledge of Morphological characteristics of Assamese Language.
20	ASMDSC- 404 T	Assamese Script	This course is intended to give an outline to the history of script. Students will also understand the development of Assamese Script.
21	ASMDSC-451T	Academic Writings	This course aims to get students acquainted with various aspects of Assamese creative writings. They will also gets the knowledge of various aspects of writings.
22	ASMDSC-452 T	Sankardeva and Sankardeva study	This course aims to get students acquainted with the life of Srimanta Sankardeva. They will go through the various creative writings of Sankardeva and his contributions towards assamese society as well.
23	ASMDSC-453T	Assamese Science Literature	This course aims to get students acquainted with the Assamese Science literature. They will also know the various aspects of Science literature.
24	ASMDSC-454T	Assamese Autobiography	This course aims to get students acquainted with the autobiography. They will also gets the knowledge about Assamese autobiography.
25	ASMDSC- 455	Field Study/Dissertation	Through field study students will understands the society, culture, political status of a particular tribe or a particular area. Students will also understand the day to day life of that tribe or that area.
26	ASMDSM-101T	Introduction of Assamese Literature	The main aim of the course is to make students familiar with the Poetry, prose and

			Plays. They also go through various selected Assamese poetry, prose and plays.
27	ASMDSM-151T	Assamese Romantic and Modern poetry	The main aim of the course is to make students familiar with the Poetry. They also go through various selected Assamese poetry of various periods.
28	ASMDSM- 201T	Selected Text: Novels and Short Stories	The main aim of the course is to make students familiar with the Novels and Short Stories. They also go through various selected Assamese Novels and Short Stories and able to know the trends and characteristics of Assamese Novels and Short Stories.
29	ASMDSM-251T	Introduction of Assamese Drama	The main aim of the course is to make students familiar with the Assamese Plays. They also go through various selected Assamese plays of different times (ancient & modern)
30	ASMDSM-252 T	Introduction of Assamese Grammar	With this course students will gain knowledge about the Phonological, morphological characteristics of Assamese language.
31	ASMDSM- 301T	Selected Assamese Prose	This course aims to get students acquainted with the development of Assamese prose from starting to present time and also acquire the knowledge of various characteristics of Assamese prose.
32	ASMDSM- 302T	Introduction to Assamese Culture	This course aims to get students acquainted with various aspects of Assamese culture. This course aims to gets students enlightened with the knowledge of Assamese Cultural behavior.
33	ASMDSM-351T	Study of a Special Assamese Author	This paper aims to make the students critically analyze various perspectives in the literary writings of a particular writer. Students will go through the various literary works of that writer and understand the characteristics of his/her writings.
34	ASMDSM-401T	Creative Writings	The main aim of the course is to make students familiar with the creative writing process. Students will know the important steps to follow in creative writing.
35	ASMDSM- 451T	Assamese Script and Assamese Language	This course is intended to give an outline to the history of Assamese language and script. Students will also understand the

			development of Assamese Language and Script.
36	ASMSEC- 101T	Acting and the Stage	The main aim of the course is to make students familiar with the Plays as a performing art and understand the importance of stage in plays. Students also gain the knowledge about the historical background of Assamese Play and stages in Assam.
37	ASMSEC-151T	Language and its use in Computer	Through this course students learn how to use a particular language in computer and understand how to use Assamese language in computer. Apart from theoretical knowledge they are also gain the practical knowledge in this course.
38	ASMSEC - 201T	Art of Translation	This course aims to get students acquainted with the translation theory and practice. Students are gets familiar about the various translation works of the Assamese language.
39	ASMIDC- 101T	Environment and Assamese Literature	The main aim of the course is to make students familiar with the environment. They will study the various Assamese text in which environment was reflected.
40	ASMIDC-151T	Assamese Writing Skill	The main aim of the course is to make students familiar with the Assamese writing process. Students will also know the various aspects of Assamese writing skills.
41	ASMIDC- 201T	Films and Literature	The main objective of the course is to make students familiar with film making. In this course students will know about the various film made from different Assamese Literature.
42	ASMMIL- 101T	Assamese as Communicative Language	After completion of the course students shall be able to learn regarding the various innovative ways of using Assamese language in verbal and non verbal communications. This course will enable the students to develop their speaking, reading and understanding skills. The course attempts to develop the writing skills of the students and makes them think about the relation between language and literature.
43	ASMMIL- 201T	Introduction of Modern Assamese Literature	The main aim of the course is to make students familiar with the modern Assamese poetry, prose, Novels and Short Stories

			through various selected Assamese Poetry, Prose, Novels and Short Stories. Thus students will know the trends and characteristics of modern Assamese Poetry, Prose, Novels and Short Stories.
44	ASMSIC - 301	Internship with Industry/Community Engagement/Field Study	Through field study students will understands the society, culture, political status of a particular tribe or a particular area. Students will also understand the day to day life of that tribe or that area.

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DEPARTMENT OF BODO

Sl. No.	Course Code	Course Title	Course Outcome
1.	DSCBOD -101	History of Bodo literature.	This course intends to trace the history of Bodo literature starting from the beginning. In this paper how the Bodo literature is developed through various phases is discussed thoroughly.
2.	DSCBOD -201	Bodo language.	This course intends to knowledge the history of Bodo language starting from the origin. In this paper the students to know how Bodo language is derived from the original Indo-Mongoloid language and developed through various phases discussed thoroughly.
3.	DSMBOD-101	Introduction to Bodo Novel	This course intends to knowledge the theory and idea about the Novel. The students expected from this course to learn about the trends of Bodo Novel and learn about the theme, social picturization and cheracterization of the society through the selected Novel.
4.	IDCBOD-101	Selected Prose and Poetry.	This course intends to introduce the students to Prose and Poetry in general and Bodo in particular. It is designed to have a glimpse of Bodo prose and poem that represent early, medieval, modern and contemporary period.
5.	SECBOD-101	Editing and Compiling	The aim of this course is to knowledge and idea about editing and compiling of News paper, Magazine, Journal, Books etcs.
6.	AECBOD-101	Bodo Communication	The purpose of this course is introduce to students the theory and tools of communication and develop the vital communication skills which should be integral to personal, social and professional interaction.
7.	DSCBOD-151	Introduction to Culture	This course aims to impart the knowledge of social and cultural history of Bodos. The students are expected to learn about the cultural elements of the Bodos.

8.	DSCBOD-152	Eastern Literature	The aim of this paper is to exchange the idea and philosophy of Bodo literature with the Indian classic literature which will redress regional literary work with the national literary view and concepts.
9.	DSMBOD -151	Introduction to Bodo Novel	This course intends to knowledge the theory and idea about the Novel. The students expected from this course to learn about the trends of Bodo Novel and learn about the theme, social picturization and cheracterization of the society through the selected Novel.
10.	IDCBOD-151	Selected Bodo Short story and Drama	This course intends to introduce the students about short story and drama in general and Bodo particular. The students are expected from this course come to know the tends and develop of Bodo short story and drama.
11.	SECBOD-151	Art of Translation/practical translation	The aim of this course to equip the students about theories of translation, techniques of translation with practical aspect of translation.

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DEPARTMENT OF BOTANY

Programme Specific Outcome (PSO) and Course Outcome(CO)

Programme Outcome (PO) of Botany:

On completion of programme students will be specifically able to

PO1- Scientific Knowledge: Identify and classify the plants by using the key characters and the fundamental process of plants.

PO2. Practical skills: Students learn to carry out practical work, in the field and in the laboratory, with minimal risk. They become competent enough in various analytical and technical skills related to plant sciences.

PO3. Modern tool usage: Apply appropriate techniques, resources, and instruments and equipments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological activities of plants with an understanding of the application and limitations.

PO4. Intellectual skills: The student completing the course is able to identify various life forms of plants, design and execute experiments related to basic studies on evolution, ecology, developmental biology, physiology, biochemistry, plant interactions with microbes, morphology, anatomy, reproduction, genetics, microbiology and molecular biology.

PO5. Problem analysis: Students will be familiarized with the use of bioinformatics tools and databases and in the application of statistics to biological data.

PO6. Conduct investigations of complex problems: The student completing the course is capable to perform short research projects using various tools and techniques in plant sciences and develop scientific temperament and research attitude.

Course Outcome (CO) of FYUGP Botany (DSC)

Sl.No	Course Code	Course Description	Course Outcome
1	BOT:DSC-101	MICROBIOLOGY	The course will provide comprehensive overview on microbial world and its application in diverse

			fields.
2	BOT:DSC-102	PHYCOLOGY AND MYCOLOGY	The course will provide detailed understanding of Algae and Fungi.
3	BOT:DSM-101	BIODIVERSITY (Microbes, cryptogams & Gymnosperm)	The course will highlight the diversity of microbial world along with cryptogams and gymnosperms.
4	BOT:IDC-101	GARDENING AND NURSERY MANAGEMENT	The course will help to empower students to take up gardening and nursery management as career option.
5	BOT:SEC- 101	MEDICINAL PLANTS AND HERBAL TECHNOLOGY	The course will provide a comprehensive understanding on the importance of medicinal plants and herbal technology in health care.
6	BOT:DSC-151	CELL BIOLOGY	The course will provide a detailed understanding of cellular organisation of prokaryotic and eukaryotic organism.
7	BOT:DSC-152	PRACTICAL-1	The course will provide a detailed picture of cellular organisation of lower cryptogams and eukaryotes.
8	BOT:DSM-151	ANGIOSPERM MORPHOLOGY AND TAXONOMY	The course will give a comprehensive understanding of morphological features of angiosperms and direct the taxonomic datasets of angiosperms.
9	BOT:IDC-151	BIODIVERSITY CONSERVATION	The course will provide a comprehensive overview on the conservation and management aspects of biodiversity and the importance of biodiversity conservation in the era of climate change.
10	BOT:SEC-151	MUSHROOM CULTIVATION	The course will provide the basis to understand the diverse aspects of mushroom cultivation and its importance.

Course Outcome (CO) of CBCS Botany (Honours)

Sl.No	Course Code	Course Description	Course Outcome
1	BOTHCC – 101T	Algae and Microbiology	In this paper students will learn about the basic introduction to Microbial world, Morpholpgical and Anatomical structures of Virus, Bacteria and Algae.
2	BOTHCC - 102T	Biomolecules and Cell Biology	On Completion of the paper,the students will be able to learn about the types and significance of Biomolecules,Bioenergetics and Enzymes,Cells and its organelles and Cell division.
3	BOTHCC –	Algae and	Students will be able to classify and learn

	103L	Microbiology	about the reproduction and life cycles of algae. And can also learn in detail the structures of Bacteria and can Perform the practical experiments viz gram staining of bacteria.
4	BOTHCC - 104L	Biomolecules and Cell Biology	Students will be able to explain about the structures, functions and composition of cell and their organelles besides learning about the cell division. The students will learn to perform the micro-chemical tests to demonstrate various components.
5	BOTHCC – 201T	Mycology and Phytopathology	Students will have an idea about the characteristic features, life-cycle and classification of Fungi and also about the use of Fungal organisms for their valuable products.
6	BOTHCC – 202T	Archegoniate	This course will make the students able to know about morphological,anatomical and developmental patterns in the Bryophytes,Pteridophytes and Gymnosperm.
7	BOTHCC – 203L	Mycology and Phytopathology	Understand clearly the practical knowledge of the structure, composition classification, nomenclature of fungi and lichen.
8	BOTHCC – 204L	Archegoniate	Students will be able to identify Bryophytes, Pteridophytes and Gymnosperms morphologically and can learn about their anatomical structure from its transverse section.
9	BOTHCC – 301T	Anatomy of Angiosperm	From this paper,students will learn about the introduction and scope of Plant Anatomy,Tissues, Apical meristem,Vascular cambium in root and its adaptive and protective systems.
10	BOTHCC – 302T	Economic Botany	On conclusion of the paper,the students will know about the origin of cultivated plants,Cereals,legumes,spices and also the source of sugars,starches, beverages, oils,fats and fibres.
11	BOTHCC – 303T	Genetics	Students will know about the history of Genetics,Extrachromosomal inheritance,Linkage,Crossing overband Chromosomal mapping etc.
12	BOTHCC – 304L	Anatomy of Angiosperm	Students can understand the morphology and anatomical structures of Bryophytes,

			Pteridophytes and Gymnosperms in details. And in the field trip they can identify the specimens and their habitat.
13	BOTHCC – 305L	Economic Botany	Identify the economically important local plants and their useful parts. Recognize the binomial, family and useful part of major economic crops of India.
14	BOTHCC – 306L	Genetics	Comprehend the interaction of genes and multiple alleles. Analyze and solve problems in gene inheritance.
15	BOTSEC – 301T	Biofertilizers	From this course the students will learn about the general account of microbial uses of biofertilizers and organic farming.
16	BOTHCC – 401T	Molecular Biology	In this paper students will learn about Nucleic acid,replication of DNA,Central Dogma, Genetic Code,Transcription,Processing,modification of RNA and translation.
17	BOTHCC – 402T	Plant Ecology and Phytogeography	From this paper the students will learn about the introduction of Plant Ecology,soil,water,biotic and abiotic interactions, population Ecology and Ecosystem and Phytogeography.
18	BOTHCC – 403T	Plant Systematics	From this paper the students will learn about the significance of plant systematic,taxonomic hierarchy and Botanical nomenclature,system of classification, biometrics etc.
19	BOTHCC – 404L	Molecular Biology	Learners will be able to prepare media for growth of *E.coli* and can demonstrate the DNA extraction of plants and describe the structure of Nucleic acids.
20	BOTHCC – 405L	Plant Ecology and Phytogeography	Students will have a knowledge on instruments used to measure microclimatic variables such as Soil thermometer,maximum and minimum thermometer,anemometer,psychrometer /hygrometer, rain gauge and lux meter. Field visit to familiarise students with ecology of different sites.
21	BOTHCC – 406L	Plant Systematics	Identify plants with flora and taxonomic keys from their vegetative and floral

			characters of the angiosperm families according to Bentham & Hooker's system of classification. Learn to prepare a herbarium. Understand and can practice ICN rules in plant nomenclature.
22	BOTSEC – 401T	Herbal Technology	On completion of the course the students will learn about the scope and history of Herbal medicine, Pharmacognosy,Phytochemistry,Analytical pharmacognosy and micro propagation of medicinal plants.
23	BOTHCC – 501T	Reproductive Biology of Angiosperm	Here students will know about the reproductive development, Anther and Pollen Biology, Ovule, Pollination and fertilization etc.
24	BOTHCC – 502T	Plant Physiology	On completion of the course, students will be able to learn and understand about mineral nutrition, growth and developmental processes in plants.
25	BOTHCC – 503L	Reproductive Biology of Angiosperm	Students can perform fresh and acetolyzed pollen grain experiment and can show its ornamentation and aperture. They will learn about the development of dicot embryo and can dissect the developing seeds for embryos at various developmental stages.
26	BOTHCC – 504L	Plant Physiology	Student will understand the phenomenon of Adsorption, and Imbibition. Student will also understand the effect of light on seed germination. Students can demonstrate suction due to transpiration, Fruit ripening/Rooting from cuttings, Bolting/Avena coleptile bioassay experiment.
27	BOTDSE – 501T	Analytical Techniques in Plant Science	From this paper the students will learn about various imaging and related techniques,cell fractionation and Radioisotopes,Spectrometry and Chromatography etc.
28	BOTDSE – 502T	Stress Biology	From this paper the students will learn about defining Plant stress, various environmental factors of Plant stress,stress sensing mechanism of plants etc.
29	BOTDSE-503L	Analytical Techniques in Plant Science	Students will learn on Blotting techniques: Southern, Northern and Western, DNA fingerprinting, DNA sequencing and PCR.

			Students will learn to separate Amino-acids, sugars and chloroplast pigments by paper chromatography, thin layer chromatography and column chromatography respectively.
30	BOTDSE – 504L	Stress Biology	Students will learn about the Zymographic analysis of peroxidase and superoxide dismutase activity. Students Will be able to perform quantitative estimation and zymographic analysis of catalase and glutathione reductase.
31	BOTSEC – 501	Ethnobotany	Here the students will learn about the methodology of Ethnobotany,important medicinal plats,role of Ethnobotany in modern medicine, Enthnobotany and legal aspects.
32	BOTHCC – 601T	Plant Metabolism	On completion of the course the students will be familiar with various physiological aspects involved in the plant development and also the role of enzymes and its mechanism in Photosynthesis, respiration, Nitrogen and Lipid metabolism
33	BOTHCC – 602T	Plant Biotechnology	From this paper the students will learn about Plant tissue culture,Recombinant DNA technology,Gene cloning,methods of gene transfer and application of Biotechnology.
32	BOTHCC – 603L	Plant Metabolism	Students will learn to separate photosynthetic pigments and will learn about the effect of f carbon dioxide and light intensity on the rate of photosynthesis. Students will be able to demonstrate the absorption spectrum of photosynthetic pigments.
33	BOTHCC – 604L	Plant Biotechnology	Students will be able to demonstrate in vitro sterilization and inoculation methods using leaf and nodal explants of plants and can isolate protoplasts. They will be able to construct restriction map of circular and linear DNA from the data provided.
34	BOTDSE – 601T	Industrial and Environmental Microbiology	On completion of the course the students will learn about Microbial production of Industrial products, Bioreactors,Fermentation processes,Microbial enzymes of industrial interest, Microbial flora of water, microbes

			in agriculture and remidation of contaminated soils.
35	BOTDSE – 602T	Biostatistics	From this paper the students will learn about Biostatistics, collection of data,measures of central tendency,corelation and statistical inference.
36	BOTDSE – 603L	Industrial and Environmental Microbiology	Students will learn about the Principles and functioning of instruments in microbiology laboratory and will learn a Hands on experiment sterilization techniques and preparation of culture media.
37	BOTDSE – 604L	Biostatistics	Students will be able to apply the scientific method to questions in botany by formulating testable hypotheses, collecting data that address these hypotheses, and analyzing those data to assess the degree to which their scientific work supports their hypotheses.
38	BOTSEC – 601T	Mushroom Culture	On completion of the course the student will learn about the introduction,history,nutritional and medicinal value of edible mushroom, cultivation technology,mushroom bed preparation,storage,nutrition and food preparation from mushroom.

Course Outcome (CO) of Botany (General)

Sl.No	Course Code	Course Description	Course Outcome
1	BOTDSC– 101T/ GE –	Biodiversity (Microbes, Algae, Fungi and Archegoniate)	On completion of the course the students will learn about the diversity and charecteristics of Microbes, Algae, Fungi and Archegoniate.
2	BOTDSC- 102L/GE	Biodiversity (Microbes, Algae, Fungi and Archegoniate)	Student can classify and identify the Algal and fungal genus and specimen included. Student can make micro preparation of the material of Pteridophyta and bryophytes and identify them anatomically. Students can make the bacterial slide by Gram staining techniques.

3	BOTDSC-201T/ GE –	Plant Ecology and Taxonomy	From this paper the students will learn about the significance of plant systematic,taxonomic hierarchy and Botanical nomenclature,system of classification, biometrics etc.
4	BOTDSC-202L/GE	Plant Ecology and Taxonomy	Students will have a knowledge on instruments used to measure microclimatic variables such as Soil thermometer,maximum and minimum thermometer,anemometer,psychrometer /hygrometer, rain gauge and lux meter. f Students will learn about the vegetative and floral characters of the Brassicaceae families.
5	BOTDSC – 301T/ GE	Plant Anatomy and Embryology	On completion of the course, students will be able to learn and understand about meristematic,permanent tissue,Secondary growth, structural organization of flowers and pollination.
6	BOTDSC-302L/GE	Plant Anatomy and Embryology	Students will be learned about the tissue system, types of ovules, Pollination types and seed dispersal mechanisms.
7	BOTDSC – 401T/ GE –	Plant Physiology and Metabolism	On completion of the course, students will be able to learn and understand about mineral nutrition, growth and developmental processes in plants.
8	BOTDSC-402L/GE	Plant Physiology and Metabolism	Students will be able to determine the osmotic potential of plant cell sap and the effect of two environmental factors (light and wind) on transpiration. They will be also able to demonstrate experiments on Bolting, Effect of auxins on rooting, Suction due to transpiration, R.Q. and Respiration in roots.
9	BOTDSE – 501T	Analytical Techniques in Plant Science	From this paper the students will learn about various imaging and related techniques,cell fractionation and Radioisotopes,Spectrometry and Chromatography etc.
10	BOTDSE-502L	Analytical Techniques in Plant Science	Students will learn on Blotting techniques: Southern, Northern and Western, DNA fingerprinting, DNA sequencing and PCR. Students will learn to separate Amino-acids, sugars

			and chloroplast pigments by paper chromatography, thin layer chromatography and column chromatography respectively.
11	BOTDSE – 601T	Industrial and Environmental Microbiology	On completion of the course the students will learn about Microbial production of Industrial products, Bioreactors,Fermentation processes,Microbial enzymes of industrial interest, Microbial flora of water, microbes in agriculture and remidation of contaminated soils.
12	BOTDSE-602L	Industrial and Environmental Microbiology	Students will learn about the Principles and functioning of instruments in microbiology laboratory and will learn a Hands on experiment sterilization techniques and preparation of culture media.

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PROGRAM/COURSE OUTCOME
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DEPARTMENT OF CHEMISTRY

SL NO	*PAPER CODE*	*NAME OF THE COURSE*	*OUTCOMES*
1	DSC-101	Inorganic Chemistry-I (Atomic structure, Chemical Bonding and Metallurgy)	This paper aims to acquaint the students with the structure of atom, periodic properties of the elements, various theories of chemical bonding, oxidation – reduction of various inorganic reactions and principles of metallurgy.
2	DSC-102	Physical Chemistry-I (State of Matter and Solution)	This paper intends to provide the concepts of gaseous, liquid and solid states of matter and various phenomenon of solutions.
3	DSM-101	Fundamentals in Chemistry -I	This paper aims to acquaint the students with the structure of atom, various theories of chemical bonding, concepts of gaseous, liquid and solid states of matter and fundamentals of organic chemistry
4	SEC-101	Separation Techniques	In this paper different separation technique such as solvent based techniques, chromatographic techniques, stereoisomeric separations, ion-exchange chromatography are being discussed. Also emphasize is given in case studies of different aforementioned techniques to enhance the skills of students.
5	IDC-101	Application of Chemistry in everyday life	The main objective of this paper is to provide knowledge on the selected topics which play important roles in day to day life. These include vitamins, minerals, enzymes, food preservation, food adulterants, soap, detergents, cellulose, biodegradable polymers etc.
6	DSC-151	Organic Chemistry-I (Introductory Organic Chemistry)	This paper aims to get students enlightened the bonding in organic compounds, basic concepts of reaction mechanism & reactive intermediates, synthesis and reactivity of aliphatic and aromatic hydrocarbons, stereochemistry and conformation analysis, basic study of carbohydrates.
7	DSC-152	Inorganic, Organic and Physical Chemistry	This paper will enable students to carry out different inorganic preparations and

		Practical	titrimetric analysis, preparation of different derivatives of organic functional groups. It will also help the broad understanding about physical properties like viscosity, surface tension and refractive index.
8	DSM-151	Fundamentals in Chemistry	The objective of this paper is to acquaint the students with the structure of atom, various theories of chemical bonding, concepts of gaseous, liquid and solid states of matter and fundamentals of organic chemistry
9	SEC -151	Basic Analytical Chemistry	This paper aims to acquaint the students about basic analytical chemistry such as sampling, chromatography, analysis of soil and water, analysis of cosmetics, analysis of food and case studies of water analysis.
10	IDC-151	Indian Chemistry Through the ages	This paper intends to provide the basic idea about the chemistry in ancient India, chemical arts and crafts in historic period, modern Indian chemistry, Lives of some chemists from modern India and their contributions in chemistry.
11	DSC-201	Inorganic Chemistry – II (s-, p-block elements , coordination chemistry and its applications)	This paper aims to acquaint the students with chemistry of s- and p-block elements, acids and bases and inorganic polymers, coordination chemistry, d-, and f-block elements and bio-inorganic chemistry.
12	DSC-202	Organic Chemistry- II (Functional Group Chemistry)	The main objectives of this paper is to provide knowledge on the preparation and properties of halogenated hydrocarbons, alcohols, phenols, ethers, carbonyl compounds, carboxylic acid and sulphur & nitrogen containing functional groups.
13	DSM-201	Fundamentals in chemistry - II	The objective of this paper is to emphasize in details on group 13 & 14 elements, chemical thermodynamics, solutions & phase equilibria, aliphatic & aromatic hydrocarbons, alkyl and aryl halides.
14	SEC-201	Forensic Chemistry	This paper intends to provide the basic concepts about instrumentation in forensic chemistry, development of fingerprints, basics of toxicology, narcotics, drugs and psychotropic substances, explosives and cases of arson.
15	IDC-201	Heritage of Indian Metallurgy	This paper intends to provide the basic idea about the history and landmarks of metallurgy, metallurgy of currency,

			metallurgy of iron and other important metals.
16	DSC-251	Physical Chemistry - II	This paper intends to provide the concepts of chemical thermodynamics, phase equilibrium, chemical equilibrium and ionic equilibrium.
17	DSC-252	Inorganic & Analytical Chemistry -III	This paper aims to acquaint the students with the structure, reaction kinetics and mechanism of organometallic compounds, catalysis by organometallic compounds and principles of quantitative analysis.
18	DSC-253	Org, Inorg & Phy Chemistry Practical	This paper will enable students to carry out different volumetric titrations, preparation of different organic compounds and determining different physical properties like solubility, pH and critical solution temperature.
19	DSM-251	Org, Inorg & Phy Chemistry Practical	This paper will enable students to carry out qualitative inorganic analysis, preparation and purification of different organic compounds and determining different physical properties like surface tension, viscosity, pH and conductance.
20	DSM-252	Fundamentals in Chemistry – II (DSM-201)	The objective of this paper is to emphasize in details on s- and p-block elements, chemical thermodynamics, solutions & phase equilibria, aliphatic & aromatic hydrocarbons, alkyl and aryl halides.
21	DSC-301	Photochemistry and Quantum Chemistry	This paper aims to acquaint the students about basics of quantum chemistry, chemical bonding, hybridization & shape and photochemistry.
22	DSC-302	Organic Chemistry – III (Heterocyclic, Biochemistry, Natural products and Photochemistry)	The main objectives of this paper is to provide knowledge on the preparation and properties of heterocyclic compounds, amino acids, peptides & proteins, enzyme, lipid & nucleic acids, alkaloids & terpenes and photochemistry of organic compounds.
23	DSC-303	Org, Inorg & Phy Chemistry Practical	After completion of this course students shall be able to learn about iodo/iodimetric titrations and gravimetric analysis, qualitative organic analysis, pH-metric titrations, conductometric titration and study of kinetics of reactions.
24	DSM-301	Fundamentals in Chemistry – III	The objective of this paper is to emphasize in details on transition series, chemical kinetics, equlibria, alcohols, phenols, aldehydes,

			ketones and carboxylic acids.
25	DSM-302	Fundamentals in Chemistry – III (DSM-301)	The objective of this paper is to emphasize in details on transition series, chemical kinetics, equlibria, alcohols, phenols, aldehydes, ketones and carboxylic acids.
26		Internship with Industry / Community Engagement / Field study	This paper intends to provide the exposure of students to the outer world wherein they can study the applications of chemistry in every day life.
27	DSC-351	Advance Materials	This paper aims to acquaint the students about nanoscience, nanosynthesis, composite materials, liquid crystals, surfactants and macromolecules.
28	DSC-352	Spectroscopy (Theory and application)	This paper aims to acquaint the students about the spectroscopic techniques like molecular spectroscopy, UV spectroscopy, IR spectroscopy, NMR spectroscopy and mass spectroscopy.
29	DSC-353	Physical Chemistry-III	This paper intends to provide the concepts of chemical chemical kinetics, conductance and electrochemistry.
30	DSC-354	Org, Inorg & Phy Chemistry Practical	This paper will enable students to carry out qualitative inorganic analysis, chromatographic separation of organic compounds, saponification of ethyl acetate, conductometric titration, potentiometric titration and determination of equivalent conductance.
31	DSM-351	Org, Inorg & Phy Chemistry Practical (DSM-251)	This paper will enable students to carry out qualitative inorganic analysis, preparation and purification of different organic compounds and determining different physical properties like surface tension, viscosity, pH and conductance.
32	DSC-401	Selected topics in chemistry - I	The main objective of this paper is to provide knowledge on basic concepts of inorganic, organic and physical chemistry of importance.
33	DSC-402	Selected topics in Chemistry-II (Reagents & reactions, Green Chemistry)	The main objective of this paper is to provide knowledge on the preparation and reactivity of different reagents used in organic synthesis with emphasize on the importance of green chemistry.
34	DSC-403	Org, Inorg & Phy Chemistry Practical	This paper will enable students to carry out different inorganic preparations and titrimetric analysis, preparation of different

			derivatives of organic functional groups. It will also help the broad understanding about physical properties like viscosity, surface tension and refractive index.
35	DSC-404	Org, Inorg & Phy Chemistry Practical	This paper will enable students to carry out qualitative inorganic analysis, chromatographic separation of organic compounds, saponification of ethyl acetate, conductometric titration, potentiometric titration and determination of equivalent conductance.
36	DSM-401	Fundamentals in Chemistry – IV Practical	This paper will enable students to carry out qualitative inorganic analysis, preparation and purification of different organic compounds and determining different physical properties like surface tension, viscosity, pH and conductance.
37	DSC-451	Research Methodology (with research)/Selected topics in Chemistry - III	This paper will enable students to understand the foundations of research, problem identification & formulation, research design and data analysis.
38	DSC-452	Applied Chemistry	The main objective of this paper is to provide knowledge on basic concepts, importance and scope of chemistry.
39	DSC-453	Chemistry in everyday life	The main objective of this paper is to provide knowledge on the selected topics which play important roles in day to day life. These include vitamins, minerals, enzymes, food preservation, food adulterants, soap, detergents, cellulose, biodegradable polymers etc.
40	DSC-454	Instrumental Techniques	This paper aims to acquaint the students about the spectroscopic techniques like molecular spectroscopy, UV spectroscopy, IR spectroscopy, NMR spectroscopy and mass spectroscopy.
41	DSM-451	Fundamentals in Chemistry – IV (DSM-451)	The objective of this paper is to emphasize in details on transition series, chemical kinetics, equlibria, alcohols, phenols, aldehydes, ketones and carboxylic acids.
42	DSC-451	Research Methodology (with research)/ Selected topics in Chemistry – III	This paper will enable students to understand the foundations of qualitative & quantitative research, problem identification & formulation, research design and interpretation of data.
43	DSM-451	Fundamentals in	The objective of this paper is to emphasize in

		Chemistry – IV (DSM-451)	details on transition series, chemical kinetics, equlibria, alcohols, phenols, aldehydes, ketones and carboxylic acids.
44		Research Project / Dissertation	The main objective of the research project/dissertation is to serve as an evaluation tool to asses a student's mastery in their choice of the field of study. It demonstrates a student's ability to conduct independent research, data analysis, application of theoretical framework and present coherent reasoning.

FYUG
PROGRAM/COURSE OUTCOME
DIPHU GOVERNMENT COLLEGE, DIPHU

DEPARTMENT OF COMMERCE

B.Com PSOs:

PSO1: To equip the students with skills in reading, writing, comprehension and communication as also to use electronic media for business communication.

PSO2: To acquire conceptual knowledge of the financial accounting and to impart skills for recording various kinds of business transactions.

PSO3: To provide basic knowledge about the organisation and management of a business enterprise.

PSO4: To impart basic knowledge of the important business legislation.

PSO5: To familiarize students with the applications of mathematics and statistical techniques in business decision-making.

PSO6: To impart basic knowledge of the provisions of the Companies Act 2013.

PSO7: To provide basic knowledge and equip students with application of principles and provisions of Income-tax Act, 1961

PSO8: To enable the student to become familiar with the mechanism for conducting business transactions through electronic means.

PSO9: To enable the students to acquire the basic knowledge of the corporate accounting and to learn the techniques of preparing the financial statement.

PSO10: To acquaint the students with basic concepts used in cost accounting, various methods involved in cost ascertainment and cost accounting book keeping systems.

PSO11: To orient the learner towards entrepreneurship as a career option and creative thinking and behavior.

PSO12: To acquaint students with the techniques and principles to manage human resource of an organization.

PSO13: To provide basic knowledge of concepts, principles, tools and techniques of marketing.

PSO14: To provide knowledge of auditing principles, procedures and techniques in accordance with current legal requirements and professional standards.

PSO15: To familiarize the students with the principles and practices of financial management.

PSO16: To provide computer skills and knowledge for commerce students and to enhance the student understands of usefulness of information technology tools for business operations.

PSO17: To acquaint the students with the concepts of microeconomics dealing with consumer behavior.

PSO18: To provide Basic Knowledge of corporate tax planning and its impact on decision-making.
PSO19: To impart knowledge about the basic principles of the banking and insurance.
PSO20: To impart the students, knowledge about the use of financial, cost and other data for the purpose of managerial planning, control and decision making.
PSO21: To familiarize the students with the concepts, importance and dynamics of international business and India's involvement with global business.
PSO22: To familiarize the students with the activities in a modern office.
PSO23: To familiarize the students with different investment alternatives, introduce them to the framework of their analysis and valuation and highlight the role of investor protection.
PSO24: to familiarize the students with of their rights as consumer, the social framework of consumer rights and legal framework of protecting consumer rights.
PSO25: To familiarize the students with the fundamentals of personal selling and the selling process.
PSO26: To enable the student to grasp the major economic problems in India and their solutions.

PROGRAM/COURSE OUTCOME

Sl. No.	Paper Code/ Course Code	Name of the Course	Course Outcome
1	DSC 101	Financial Accounting	This course is intended to help students to acquire conceptual knowledge of the financial accounting and to impart skills for recording various kinds of business transactions.
2	DSC 102	Principles of Management	The course aims to familiarize the learner with extant and emerging management theories and practices for reflective and holistic thinking on management principles and practices.
3	DSM 101	Micro Economics	The objective of the course is to acquaint the students with the concepts of microeconomics dealing with consumer behavior
4	IDC 101 (A)	Fundamentals of Accounting	This paper aims to help learners to acquire conceptual knowledge of financial accounting and its application in business.
5	IDC 101 (B)	Marketing for Beginners	The objective of this paper is to help the student to acquire conceptual knowledge of the marketing for beginners. It also aims to develop knowledge of various marketing activities for present and future purposes.
6	SEC 101	Business Communication	The paper aims to train students to enhance written as well as oral communication in the corporate world.
7	DSC 151	Corporate Accounting	The course aims to help learners to acquire the conceptual knowledge of the corporate

			accounting system and to learn the techniques of preparing the financial statements of companies.
8	DSC 152	Business Laws	The objective of the course is to impart basic knowledge of business laws relevant for the inception and conduct of general business activities with relevant case studies.
9	DSM 151	Macro Economics	The objective of the paper is to acquaint the students with the basic principles of macro-economic theory and illustrate with applications.
10	IDC 151 (A)	Fundamentals of Entrepreneurship	The basic objective of this paper is to promote entrepreneurial awareness among the learners so as to understand its need and relevance in Indian society as well as to make students aware of the existing environmental support system for the promotion of entrepreneurship in the country.
11	IDC 151 (B)	Basics of Human Resource Management	The paper aims to acquaint the learners with the techniques and principles to manage human resources of an organization for better performance.
12	SEC 151	Computer Applications in Business	This paper aims to impart computer knowledge that will enable them with the ability to handle and analyze data for decision making and presenting it to the person concerned in the form of presentations and/or reports in the fast-moving business world.

FYUG
PROGRAM/COURSE OUTCOME
DIPHU GOVERNMENT COLLEGE, DIPHU

DEPARTMENT OF ECONOMICS

Program Outcome:

Program in Economics has been designed with the objective to develop in-depth knowledge of students in frontier areas of economic theory and methods, so that they are able to use the knowledge to study real world economic problems. The program has a strong focus on theoretical and quantitative skills and train students in the collection and analysis of the data.
Specifically, Economics program seek to:

- Provide and adapt curricula that prepare our graduates for employment and further study as economists.
- Develop a deep understanding of the basic theoretical framework underlying the field of micro and macroeconomic theories and policies.
- Ensure a comprehensive understanding of the basic economic concepts like how the market forces work, how the different degrees of competition in a market affect pricing and output.
- Develop the knowledge about theories of economic growth & Development and issues of related to sustainable development
- Provide a deep knowledge on environmental Economics.
- To develop the understanding of the efficiency and equity implications of market interference, including government policy.
- Articulate the knowledge of public finance.
- Developing the skill of data collection & use of sampling techniques in research.
- Understand the theories of international trade and their interrelationship with domestic macroeconomic policies for the development of the country.
- Apply mathematical and statistical tools as well as econometrics models to decipher the micro and macro-economic phenomena
- Develop research knowledge in economics.

Course Outcomes:

Semester I

(1) ECODSC- 101: Introductory Microeconomics: Total Credits: 3:Teaching Hours: 45 hours
After finishing the course students are expected to develop some basic understanding of economic principles and be able to relate the microeconomic theories with individual economic behaviour in the real-life situation.

(2) ECODSC- 102: Introductory Macroeconomics: Total Credits: 3:Teaching Hours: 45 hours

After the completion of the course, the students will be able to understand the theoretical framework and the working of the economy as a whole. The course would provide an in-depth understanding of the real economic issues like unemployment, inflation, money supply, GDP and their linkages.

(3) ECODSM- 101: Elementary Economics: Total Credits: 3: Teaching Hours: 45 hours
After finishing the course students are expected to develop some basic understanding of economic thought and be able to relate the microeconomic theories and macroeconomic theories with individual economic behaviour in the real life situation.

(4) ECOIDC- 101: Foundation of Economics – 1: Total Credits: 3: Teaching Hours: 45 hours
After completion of the course the student will be able to explain what economics is and why it is important. The student will understand about market forces, identify the determinants of supply and demand; demonstrate the impact of shifts in both market supply and demand curves on equilibrium price and output, define equilibrium production, cost, working and nature of markets.

(5) ECOSEC- 101: Business Project Formulation and Entrepreneurship Development: Total Credits: 3: Teaching Hours: 45 hours
After the completion of the course, the student will be able to Use the entrepreneurial qualities and skills under real world condition. The student will be able to identify various schemes provided by Government of India to support business enterprises and develop entrepreneurial personality and prepare project report and initiate SSI.

Semester: II

(6) ECODSC- 151: Elementary Mathematics for Economics: Total Credits: 3: Teaching Hours: 45 hours
After completion of the course students would develop sufficient quantitative and analytical skills required for the learning of economic theory and principles at the UG level.

(7) ECODSC- 152: Issues in Indian Economy: Total Credits: 3: Teaching Hours: 45 hours
On completion of the course the student will be able to understand the basic characteristics of Indian economy since independence and its potentiality on natural resources as well as human resources. The Student will be able to identify the causes of poverty, unemployment and income inequality in the economy and will develop the capacity to critically review the relevant policy measures.

(8) ECODSM- 151: Elementary Economics: Total Credits: 3: Teaching Hours: 45 hours
After finishing the course students are expected to develop some basic understanding of economic thought and be able to relate the microeconomic theories and macroeconomic theories with individual economic behaviour in the real life situation.

(9) ECOIDC- 151: Foundation of Economics – II:Total Credits: 3:Teaching Hours: 45 hours

After the completion of the course, the student will be able to understand the theoretical framework and the working of an economy as a whole. The course is intended to provide an in-depth understanding of the real economic issues like unemployment, inflation, and also have knowledge about functioning of money and banking, Classical and Keynesian approaches to income and employment, GDP and their linkages.

(10) ECOSEC- 151: Insurance: Principles and Practices: Total Credits: 3: Teaching Hours: 45 hours

After the completion of the course the students will gather practical knowledge about the functioning framework of insurance markets.

FYUG
PROGRAM/COURSE OUTCOME
DIPHU GOVERNMENT COLLEGE, DIPHU

DEPARTMENT OF EDUCATION

Programme Specific Outcome (PSO) and Course Outcome (CO)

Programme Specific Outcome (PSO) of Education:

1.The FYUG course is expected to develop in students learning of Education as a social Science discipline by providing them with a challenging educational experience.

2. The course is aiming to develop sound theoretical background in the subject and to enable the students to understand the foundation of education.

3.The course would develop capabilities of the students to critically evaluate issues and the emerging trends of education.

4.The course is expected to equip students with soft skills and inculcate values through value education for personal development.

5.The course would help students to familiarize with educational technology and train them in the use of ICT in Education.

6.The course would help to understand the use of statistics in education and evaluation.

7.The course includes learning with practical experience and preparation of dissertation on different topics of education.

Course Outcome (CO) of B.A. (Education) General Programme -

Programme Code	Course Code	Course Name	Course Outcome
	DSC – 101	Principles and Practices of Education	This course has been designed to make learners acquaint with concept, nature, principles, theories of education, curriculum, teaching etc.
	DSC – 102	Educational Psychology	This course has been prepared to make learners understand the

			basics of educational psychology, learning, motivation etc.
	DSM - 101	Introduction to Educational Psychology	This course would provide basic knowledge on educational psychology and human growth and development at different stages of life.
	IDC – 101	Introduction to Teaching Learning Process	This course has been designed to understand the meaning, aims, functions and role of teaching, and learning.
FYUG B.A. (Education) General Programme	SEC – 101	Yoga and Life Skill Education	This course has been designed to make the learners to understand the concept of holistic health, importance of yoga and art of living.
	DSC – 151	Learner and Learning	With this course the learners would be enabled to understand the concept of learner, learning and its theories.
	DSC – 152	Educational Philosophy	This course will focus on the basic concept of philosophy, its nature, methods, relation between philosophy and education etc.
	DSM – 151	Introduction to educational Philosophy	Focus of this paper would be on acquainting students with educational philosophy, its principles, its application etc.

	IDC – 151	Population Education	This paper would focus on the basic concept of population education, its needs, its importance etc.
	SEC – 151	Communication and Teaching Skills	The paper has been prepared to understand the concept and need of communication skills, teaching skills etc.
	DSC – 201	Sociological perspective of Education	This course has been designed to enable the undergraduate students to acquaint themselves with the nature of society, culture and sociological foundation of education.
	DSC - 202	Vocational Education	This paper has been designed to focus on the need and importance of different vocations, employment opportunities, self-employment etc.
	DSM - 201	Sociological Foundation of Education	This course has been designed to enable the undergraduate students to acquaint themselves with the nature of society, culture and sociological foundations of education.
	IDC - 201	Open and Distance Education	This paper would highlight the need and importance of non formal education, the advantages of open and distance education, its methods, role etc.

	SEC – 201	Psychological Practical and Project Work	This course has been prepared to acquaint learners with concrete practical and scientific experiences on various psychological experiments and tests in laboratory setting and their implications in the field of education.
	DSC – 251	Educational management	This course has been designed to focus on educational planning, management, administration and educational finance.
	DSC – 252	History and Development of Education in India	This has made learners to get acquainted with education in India in ancient and medieval period and development of education in India.
	DSC – 253	Measurement and Evaluation in education.	This paper has been prepared to develop understanding the concepts of measurement and evaluation in the field of education.
	DSM – 251	History and Development of Education	This Paper has made learners to get acquainted with education in India in ancient and medieval period and development of education in India.
	IDC – 251	Inclusive education	The focus of this paper will be on the concept of inclusive education, educational opportunities of all children including

			children with disabilities, socially and economically disadvantaged groups.
	DSC – 301	Organization and management in Education	This course has been designed to focus on educational planning, management, administration and educational finance.
	DSC – 302	ICT in Education	From this paper the learners would acquire the use of ICT in teaching, learning, Administration and Evaluation.
	DSC – 303	Guidance and Counselling	This paper would develop in learner concept, needs and importance and various tools and techniques of guidance and counselling.
	DSM – 301	Measurement and evaluation and Statistics in Education	This paper would equip students with basic knowledge and understanding of measurement and evaluation and use of statistics in education
	DSM – 302	Vocational education	This paper has been designed to focus on the need and importance of different vocations, employment opportunities, self-employment etc.
	SEC – 301	Internship with Industry/Community engagement/Field Study	This paper emphasises on practical experience by Field study, community engagement and internship.

	DSC – 351	Teaching learning Methods and Pedagogy	This course would focus on understanding the skills of teaching-learning process, pedagogy, teaching devices and their application in the classroom.
	DSC – 352	School Education in India	This course would focus on understanding school education in India, its types, nature, structure etc.
	DSC – 353	Curriculum Development	This paper could help students to acquire knowledge on the foundation of curriculum, curriculum planning, curriculum design, curriculum evaluation etc.
	DSC – 354	Citizenship Education	This paper has been designed to understand the concept of citizenship education, its basic nature, its needs and importance etc.
	DSM – 351	Comparative Education	This course has been framed to make learners understand educational systems and teacher education system of different nations – India, USA, USSR and UK and its comparative study.
FYUG B.A. Honours/Honours with Research Degree	DSC – 401	Teacher Education In India	This course has been framed to focus on acquainting the learners with teacher education and its development at different levels in India.
	DSC – 402	Higher and Professional Education in India	This paper has been designed to highlight the need and

			importance of higher education and professional education in India for benefit of students.
	DSC – 403	Assessment of Teaching and learning	Focus of this paper is teaching, learning and its assessment at different levels.
	DSC – 404	Recent Trends and Issues in Education	This course has been prepared to acquire knowledge of emerging issues and trends in education.
	DSM – 401	Tools and Techniques of Data Collection in Education	This paper would help to understand the tools and techniques to collect the required data in educational research.
	DSC – 451	Educational Research and Statistics	This paper would equip students with basic knowledge and understanding of educational research, its types, methodology etc. and use of statistics in education
	DSM – 451	ICT in Education	From this paper the learners would acquire the use of ICT in teaching, learning, Administration and Evaluation process.
	Dissertation/DSC – 452, 453, 454	Dissertation(For Honours with Research Degree)	This would help students in preparing a dissertation by following proper methodology.
	DSC – 452	Mental Health and Hygiene	This paper would help to understand the concept of mental health and hygiene, its needs and importance, ways etc.

	DSC – 453	Learning theories and practices	This paper would focus on learner, learning, its different theories, practices etc.
	DSC – 454	Educational Policy, Planning and management	This course has been designed to focus on educational policy, its planning, management, administration and educational finance.

FYUG
PROGRAM/COURSE OUTCOME
DIPHU GOVERNMENT COLLEGE, DIPHU

DEPARTMENT OF ENGLISH

Program specific outcome (PSO) and Course outcome (CO) under NAAC

FYUG COURSES

1. COURSE CODE : ENGDSC101
   COURSE DISCRIPTION: British poetry (Beginning to the twentieth Century)

Course introduction: 2022-23

Program specific outcome: The main objective of this course is to enhance students' comprehensive understanding of the historical development and evolution of British poetry by examining important works from the Chaucerian Period to the Twentieth Century. Students will be introduced to the major literary works in the field of British poetry during this course. Students will learn about the distinctive qualities of British poetry and its function in reflecting and influencing society through an examination of the social, political, and cultural settings that have an impact on these literary works.

Course Outcome: After completion of this course, the students will comprehend and understand the literary devices, historical background, and thematic components that characterize each poem, enabling the students to comprehend poems on a deeper level. The prominent poets of this age, their influences on the greater literary landscape, and their contributions to the British literary canon will all be learnt by the students.

2. COURSE CODE : ENGDSC102
   COURSE DISCRIPTION: British Drama (Beginning to the twentieth Century)

Course introduction: 2022-23

Program Outcome: This course aims to introduce the students to British Drama in terms of the context, the form, the stage, etc., from the Medieval Period to the Twentieth Century, through a reading of the selected representative texts. The chosen texts will also assist students in learning about the politics, society, and culture of British society during the relevant eras as well as how drama reflects current events.

Course Outcome: On completion of the course, the students are expected to be in a position to appreciate the state of affairs as has prevailed in Britain from the Medieval Period to the Twentieth Century, and as those that have been represented in the selected texts. The students, through an engagement with the selected texts, will also gain an understanding of the British life and society in their wider historical context.

3. COURSE CODE : ENGDSC151
   COURSE DISCRIPTION: British Fiction (Beginning to the twentieth Century)

Introduction of Course: 2023-24

Program specific outcome: The primary objective of this course is to provide students with a comprehensive understanding of the historical development and evolution of British fiction by exploring major works from different literary periods, introducing students to the major novelists, their contributions to the British literary tradition, and the broader impact of these works on global literature. Students will learn about the distinctive features of British fiction and its function in reflecting and influencing society by investigating the social, political, and cultural settings that influenced these books.

Course Outcome: After completion of this course, students are expected to develop a solid foundation in the analysis and interpretation of key British novels. They will be able to engage with the texts on a deeper level, appreciating the historical context, literary techniques, and thematic elements that define each work. Students will be able to identify the major authors and their contributions to the British literary canon, as well as the distinguishing characteristics of different literary periods. Additionally, students will hone their critical thinking skills, enabling them to engage in thoughtful discussions and form well-informed opinions about the novels and their impact on the larger literary landscape.

4. COURSE CODE : ENGDSC 152
   COURSE DISCRIPTION: Indian writing in English

Course introduction: 2023-24

Program specific outcome: The purpose of this course is to familiarize the students with the emergence and growth of Indian Writing in English.
The course will highlight issues akin to representation of culture, identity, history, and gender politics. It will also open before students the rich and diverse output of Indian writing in English and enhance their interest to appreciate the aesthetics of Indian Writing in English.

Course Outcome: After completion of the course, the students will have gained insight into various aspects of Indian Writing in English through the given texts.

5. COURSE CODE : ENGDSM 101/ ENGDSM 151

COURSE DISCRIPTION: British Literature (The Elizabethan period to Eighteenth Century)
Course introduction: 2023-24

Program specific outcome: The primary objective of this course is to provide students with a comprehensive understanding of the evolution of British literature through the exploration of some major works from the Elizabethan Period till the Eighteenth Century. The course will introduce students to the essential literary works of the period. By examining the social, political, and cultural contexts that enlightened and shaped these literary works, students will gain insight into the unique aspects of British literature and its role in shaping society.

Course Outcome: On completion of this course, the students will be expected to engage with the texts on a deeper level, appreciating the historical context, literary techniques, and thematic elements that define each related text. Students will be expected to identify the major authors of this period and their contributions to the British literary canon and their impact on the larger literary landscape.

6. COURSE CODE : ENGSEC101

COURSE DISCRIPTION: English Communication and soft skills

Course Introduction: 2022:23

Program specific outcome: The primary objective of this course is to inculcate in the students the need to build up adaptive strategies in multiple situations by developing inter-personal skills, workplace etiquette, relation building and written communication with a view to attaining hard skills subsequently.

Course Outcome: Students, on the completion of this course, will be able to acquire the necessary soft skills in English by gaining insight into the finer and subtler aspects of personal and inter-personal relationships especially in a public environment. This syllabus will also improve the capabilities of the students to work and conduct themselves appropriately in the institution and the workplace by being caring, sensitive, tolerant and reciprocal to others.

7. COURSE CODE : ENGSEC 151

COURSE DISCRIPTION: Creative writing in English

Course Introduction: 2023-24

Program specific outcome: The primary objective of this course is to enable students to read literature with particular attention to voice, style, form, language and technique. The Craft of creative writing will help students to collaborate and communicate effectively through writing, sharing and revising creative thoughts. The Course is designed to produce skills to create awareness to comprehend creativity in literature.

Course Outcome: After completing the course the students will be expected to exhibit artistic potential in a significant way with an understanding of the creative process for critical as well as intuitive thinking and problem solving.

8. COURSE CODE : ENGAEC 101

COURSE DISCRIPTION: Alternative English

Course Introduction: 2022-23

Program specific outcome: The primary objective of this course is to enhance the ability of the students by providing them with a comprehensive understanding of the basic English Grammar as well as some English literary pieces covering English Poetry, Short Stories and Essays.

Course Outcome: After completing this course, students will be able to develop the ability to understand the basics of English grammar that may help them to erect a solid foundation in English Language, and subsequently enable them to understand and interpret an English Text. In this way, the students will develop their command over both English language and English literature, simultaneously.

9. COURSE CODE : ENGAEC 151

COURSE DISCRIPTION: English language and Communication

Course Introduction: 2023-24

Program specific outcome: The purpose of this course is to introduce students to the theory, fundamentals, and tools of communication and enable them to develop vital communication

skills which should be integral to personal, social, and professional interaction. In the context of rapid globalization and increasing recognition of social and cultural pluralities, the significance of clear and effective communication has been substantially enhanced. The present course is intended to address some of these aspects through an interactive mode of teaching-learning process and by focusing on various dimensions of communication skills.

Course Outcome: After completing this course, students will be able to express values and skills gained through effective communication. They will acquire the skills of LSRW (Listening, Speaking, Reading, and Writing) and in this way, the students will improve their mediation skills

10. COURSE CODE : ENGIDC 101

COURSE DISCRIPTION: An Introduction to Literary Appreciation

Course Introduction: 2022-23

Program specific outcome: The primary objective of the course is to familiarize the students with some basic terminologies used in literary appreciation. In addition, the course will focus on introducing the students to some basic literary texts and what entails their appreciation.

Course Outcome: After completing the course students will be expected to gain insight into basic literary terminologies which will be helpful to them in appreciating literary texts.

11. COURSE CODE : ENGIDC 151

COURSE DISCRIPTION: Literature and the Environment

Course Introduction: 2023-24

Program specific outcome: The primary objective of this course is to expose students to the intricate connections between literature and the environment, by analysing works that tackle ecological themes and address pressing environmental concerns. The course will delve into a diverse range of texts, including those from British, American and Indian authors, and will incorporate critical insights from global scholars to offer a well-rounded and cross-cultural understanding of environmental literature. Through this exploration, students will learn to appreciate the power of literature in raising awareness, shaping perspectives, and driving changes related to environmental issues.

Course Outcome: On the completion of this course, the students are expected to gain the ability to critically analyse and discuss the role of literature in addressing critical environmental issues from a variety of perspectives from different cultural backgrounds. Students will develop a

comprehensive understanding of eco-criticism as a critical approach to literature and will be able to apply its principles to the analysis of various texts. Through this process, students will not only become more aware of pressing environmental concerns but also recognize the ways in which literature can inspire, educate, and influence societal attitudes towards the environment.

FYUG
PROGRAM/COURSE OUTCOME
DIPHU GOVERNMENT COLLEGE, DIPHU

DEPARTMENT OF GEOGRAPHY

PROGRAM/COURSE OUTCOME (FYUG)

Sl No.	Course Code	Course Description	Course Outcome
SEMESTER-I			
1	DSC-101	Physical Geography (Discipline Specific Core)	After completion of this paper: 1. Students will learn physical factors of the Earth system like earthquakes, volcanoes, atmosphere, climate, weathering processes types of precipitation, distribution of land and water.
2	DSC-102	Human Geography (Discipline Specific Core)	This paper will make the 1. Students learn how human, physical and environmental components of the world interact. 2. Students familiarised with economic processes such as globalization, trade and their impacts on economic, cultural and social activities. 3. Students describe what geography and human geography are and make them understand population dynamics and migration.
3	DSM-101	Fundamentals of Physical Geography (Discipline Specific Minor)	After completion of the paper, students will learn physical factors of the Earth system like earthquakes, volcanoes, atmosphere, climate, weathering processes, types of precipitation, distribution of land and water.
4	IDC-101	Fundamentals of Geography (Interdisciplinary Course)	After studying this paper, 1. The students will be able to understand the nature and scope of geography, explore the themes and dimensions of the discipline, identity the different environmental components. 2. Students will be able to identify the

			branches of geography and their respective areas of focus and help to acquiring the knowledge about the structure of the earth. 3. Students will be able to analyze the different approaches to geography and basic concepts and themes of geography. 4. The students will be able to know the basic concept about interrelationship, nature of interaction and able to analyse the human-environment relationship.
5	SEC-101	Statistical Methods in Geography (Practical) (Skill Enhancement Course)	Students will be able to understand the significance of statistical methods in geography, practical use of different sampling types, measures of dispersion, correlation.
SEMESTER-II			
6	DSC-151	Geomorphology (Discipline Specific Core)	After completion of this course: 1. Students will be able to define the field of Geomorphology and to explain the essential fundamentals of Geomorphology. 2. They will also understand the evolution, development, and the various theories of Geomorphology. 3. The students will be able to analyse the conceptual and dynamic aspects of landform development and the application of geomorphologic knowledge at various fields.
7	DSC-152	General Cartography-I (Practical) (Discipline Specific Core)	The students will be able to identify and analyse different relief features, construct different map projections and understand their uses.
8	DSM-151	Fundamentals of Human Geography (Discipline Specific Minor)	1. Students will learn how human, physical and environmental components of the world interact. 2. Students will be familiarized with economic processes such as globalization, trade and their impacts on economic, cultural and social activities. 3. The students will describe what geography and human geography are and understand population dynamics and migration.
9	IDC-151	Resource Management (Interdisciplinary Course)	This course is designed to achieve understanding, applying and evaluate different types of resources and their judicious and sustainable uses.
10	SEC-151	Introduction to Physical and Socio-economic	The course helps to develop the understanding about theoretical notions of socio-economic

		Survey. (Skill Enhancement Course)	development/condition of sampled rural/urban households and expected to prepare a survey report on physical and socio-economic attributes.
SEMESTER-III			
11	DSC-201	Geographical Thought (Discipline Specific Core)	The learning outcome of this course would be comprehended, correlated and connect geographical ideas and concepts with historical as well as contemporary context.
12	DSC-202	Climatology and Oceanography (Discipline Specific Core)	1. Students will be able to gain knowledge about different concept of atmosphere specially structure and composition, wind system, phenomenon of world climate distribution. 2. Application of different climate model and theories of climatology in various fields. 3. Deeper understanding of bottom relief features of ocean, distributional pattern of warm and cold current, sea level changes. 4. Practical utility in the field while carrying out research on issues of climate and Oceanography
13	DSM-201	Introduction to Climatology (Discipline Specific Minor)	After completion of this course, students would be able to 1. define the field of climatology & to understand the atmospheric composition and structure. 2. Outline the mechanism & process of solar radiation, transfer to Earth surface & explain the temperature distribution & variation accordingly to time & space. 3. Illustrate & explain the air pressure system, wind regulating forces & the formation of atmospheric disturbances. 4. Understand & compute the air humidity as well as to explain the process of condensation & formation of precipitation & its types.
14	IDC-201	Disaster Management (Interdisciplinary Course)	This course will help the students to understand about Disaster Management Concept and different approaches to reduce the impact of disaster. Understanding the types of disaster causes and their management and their disaster profile of India and learn to apply the technology for monitoring and management of the disaster. It will help to gain knowledge about natural calamities and disaster and students shall build the capacity for preparedness

			and mitigation of disaster.
15	SEC-201	Field Studies (Socio-Economic Survey) (Skill Enhancement Course)	This course helps to develop the understanding about practical notions of socio-economic development/conditions of the surveyed area and expected to prepare a field study report on socio-economic attributes.
SEMESTER-IV			
16	DSC-251	Economic Geography (Discipline Specific Core)	1. The student will be familiar with the meaning, approaches and concepts of economic geography. 2. Understanding the implications of agricultural and industrial location theories. 3. Understand the major industries, natural and mineral resources and principal crops of the country 4. Examine the patterns of world transportation and international trade.
17	DSC-252	Geography of India (Discipline Specific Core)	This course will help the students to 1. Understand the India's geological structure, physiographic divisions and drainage systems 2. Know the climate patterns soil types and natural vegetation zones of India 3. Learn about the different types of farming, challenges faced by Indian agriculture and the green revolution 4. Analyze the growth distribution, density, migration, language classification and ethnic composition of the Indian population
18	DSC-253	Cartography-II (Practical) (Discipline Specific Core)	Students will be able to represent different types of data with suitable maps and cartograms, interpret topographical maps and climate graphs.
19	DSM-251	Introduction to Cartography (Practical) (Discipline Specific Minor)	Students will be able to 1. Understand maps and their importance, types and uses. 2. Comprehend map scales and their implications for measurement. 3. Interpret the contours and profiles of landforms. 4. Apply thematic mapping techniques to represent thematic information.
20	DSM-252	Environmental Studies (Discipline Specific Minor)	Students will able to understand and evaluate the environmental problems and conserve the resources. It will create the awareness among the people about sustainable development.

SEMESTER-V			
21	DSC-301	Agricultural Geography (Discipline Specific Core)	After the end of the course students will be able to conceptualise the various agricultural reasons with respect to climate. Further it is expected that they will be able to critically examine the issues concerned of agricultural activities at global and Indian context.
22	DSC-302	Environmental Geography (Discipline Specific Core)	The students on the completion of the course will be able to: 1. Understand the physical/natural environment. 2. Know the interrelationships between living organisms and non-living elements of the earth. 3. Recognise issues and challenges concerned with natural environment. 4. Realize the necessary of conservation of environment for ecological balance.
23	DSC-303	Disaster Management project (Practical) (Discipline Specific Core)	The students on the completion of the course will be able to: 1. understand the basic concepts of the course of Disaster Management. 2. Know the tools and techniques used in Disaster preparedness plans. 3. Integrate and analyse the geospatial data associated with the occurrence of disasters. 4. Prepare and present project report on disaster management.
24	DSM-301	Geography of India with Special Reference to North-East India (Discipline Specific Minor)	The students on the completion of the course will be able to: 1. Understand the physical aspects of geography including physiographic divisions, drainage systems, climate, soils, and natural vegetation. 2. Learn about specific crops, mineral resources, and energy resources and their geographical distribution. 3. Analyze population growth, distribution, composition, and social composition in each region. 4. Explore manufacturing industries, major industrial regions, and specific industries, geographic characteristics. 5. Develop an understanding of a specific region, including its location, physiography, climate, soils, natural vegetation, agriculture

			and mineral and power resources.
25	DSM-302	Geography of Tourism (Discipline Specific Minor)	At the end of this course, students will be able to 1. describe about the scope and importance of geography in tourism. 2. Students shall be enabling to understand tourism marketing and create the sustainable strategies for the planning and promoting tourism in various levels.
SEMESTER-VI			
26	DSC-351	World Physical Geography (Discipline Specific Core)	The students on the completion of the course will be able to : 1. Understand the Physical/natural world. 2. Locate the physical features over the surface of the Earth. 3. Correlate maps with the real ground. 4. Integrate and analyse the reasons behind the existence of landforms and features.
27	DSC-352	Population Geography (Discipline Specific Core)	The students on the completion of the course will be able to: 1. Understand human population as an element of geographical study. 2. Know the world's population composition. 3. Recognise the factors of population growth and their determinants. 4. Understand the relationships between population and earth's natural resources.
28	DSC-353	Geography of Tourism (Discipline Specific Core)	At the end of this course, students will be able to describe about the scope and importance of geography in tourism. Students shall enable to understand tourism marketing and create the sustainable strategies for the planning and promoting tourism in various levels.
29	DSC-354	Surveying and Levelling (Practical) (Discipline Specific Core)	This paper will be able to 1. Explain basic surveying instruments and techniques. 2. Apply skills in using basic surveying instruments, analyze data, conduct traverse survey and to find the area. 3. Learn to work as team, ethics and prepare technical reports of surveying. 4. Establish horizontal control and vertical control by traversing and triangulation. 5. Prepare topographical map and contour map on an area.
30	DSM-351	Introduction to Surveying (Practical)	This paper will make the students to 1. Explain basic surveying instruments and

		(Discipline Specific Minor)	techniques. 2. Apply skills in using basic surveying instruments, analyze data, conduct traverse survey and to find the area. 3. Learn to work as team, ethics and prepare technical reports of surveying. 4. Establish horizontal control and vertical control by traversing and triangulation. 5. Prepare topographical map and contour map on an area.
SEMESTER-VII			
31	DSC-401	Resource Geography (Discipline Specific Core)	At the end of the course, the students will: 1. Understand the concepts of different natural resources, its use, overuse, with its solution by natural resources management methods. 2. Appreciate the need for managing land and water resources for sustainable growth and development, managerial skills such as land evaluation and land classification. 3. Also, able to understand the causes and consequences of water stress and draw water conservation and management plans.
32	DSC-402	Regional Planning and Development (Discipline Specific Core)	The students will be able to identify different types of regions, regional planning and planning processes. Students will also learn about regional development planning and multi regional planning, Remote sensing and GIS in development planning.
33	DSC-403	Settlement Geography (Discipline Specific Core)	This paper will make the students: 1. Understand the nature and scope of settlement geography. 2. Identify and analyse rural settlement types and patterns. 3. Explore urbanization in India, urban poverty, slums, and urban housing issues. 4. Learn about models explaining urban land use patterns.
34	DSC-404	Fundamentals of Remote Sensing & GIS (Practical) (Discipline Specific Core)	1. This course is to make the students understand the basic concepts of Remote Sensing & GIS and to impart necessary skills of Remote Sensing analysis, image interpretation, So that they acquire employable skills in Remote Sensing. 2. Students will have the hands-on training on various models of spatial & non-spatial data collection, data storage, data analytics, data interpretation & data display through the

			thematic maps. 3. Students are employable in various corporate & government organisation where they deal to solve geographical problems.
35	DSM-401	Introduction to GIS and GPS (Discipline Specific Minor)	The students on the completion of the course will be able to: 1. Explain and communicate the concept of various kind of maps and geospatial data, develop, edit and update geospatial data, create digital maps, apply projections and other characteristics of mapping, integrate various kind of data from various sources and analyse the same using GIS concept and tools, apply the knowledge and skill for various applications.
SEMESTER-VIII			
36	DSC-451	Research Methodology in Geography (Discipline Specific Core)	On the completion of the course the students will be able to: 1. Acquire knowledge about the various important aspects of research and will be able to write research papers and reports by themselves.
37	DSM-451	Introduction to Climate Change (Discipline Specific Minor)	At the end of the course, students will be able to: 1. Sensitize the issues of climate change among peer group, local people and academic with personal and possible group effort.
38		Research Project/Dissertation	This Research Project/Dissertation will help the students to write Papers, articles in various field/ disciplines and present them in various seminars/workshops etc. Moreover this course will help them to get published their articles/papers in various approved journals.
39	DSC-452	Basics of Geospatial Science (Discipline Specific Core)	The students on the completion of the course will be able to : 1. Understand the basic concepts of new tools and techniques used for geographical analysis. 2. Know the significance of geospatial data in our day-to-day life. 3. Handle the computer software concerned with map making. 4. Integrate and analyse the geospatial data.
40	DSC-453	Political Geography (Discipline Specific Core)	The students on the completion of the course will be able to : 1. Understand the elements of Political

			Geography. 2. Learn the concepts of nation and state and geophysical theories. 3. Understand the different dimensions of electoral geography and resource conflicts.
41	DSC-454	Social Geography	This course aims to make the students understand about various social attributes and its relation with geography.

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FYUG
PROGRAM/COURSE OUTCOME
DIPHU GOVERNMENT COLLEGE, DIPHU

DEPARTMENT OF HISTORY

Programmed Specific Outcome (PSO) and Course Outcomes (CO) under NAAC

Course Outcome (CO) of History (FYUG):

Sl. No.	Course Code	Corse Description	Course Outcome
1	Semester-I HISDSC - 101T	History of India from earliest times up to 300 BCE	The course is designed to understand the historiographical trends, interpretation of the historical sources of ancient India, will acquire knowledge about the Vedic Period, the rise of Jainism and Buddhism and about the history of our ancestors along with the cultural transitions.
2	HISDSC - 102T	History of India from Mauryan Ascendancy to Harsha era	The Course aims to introduce significant developments in Indian history that have shaped the complexity of human existence. To begin with, it offers a Empire building process. It details with the political achievements of the important dynasties of Ancient India and their administration on the basic of some important sources.
3	HISSEC-101T	Archaeology & Museology	The aim of this course is to make students familiar with the structure and functioning of archaeology and museums with a view to reconstruct history and the preservation and display of its manuscripts, art objects and heritage.
4	HISIDC-101T	History of Environment	The objective of the paper is to familiarize the students with the discipline, environmental history, to know the relation between ecology and human civilization, to understand the social movements emerged due to environmental factors in India.
5	HISDSM-101T	History of India from Earliest times till the Mauryan period	Students will acquire Knowledge about the historiographical trends, interpretation of the historical sources of ancient Indian. They can acquire knowledge about the Vedic Period and the rise of Jainism and Buddhism. The paper will help the students in understranding the history of our ancestors along with the cultural transition that happened in due course of

			time.
6	Semester-II HISDSC - 151T	History of Early Medieval India	This course explores the transition from proto-historical to early medieval phase highlighting major changes that shaped the character of the Indian civilization in the Deccan. The course tries to trace the emergence of state system from tribal stage to 'early-state' stage and at the same time seeks to underline the important developments in the arena of economy, society and culture. It also reflect about the invasion by the Arabs from the northwest and the the resistance made by the Indian rulers.
7	HISDSC - 152T	History of India From 1206-1526	The period starts with the Delhi Sultanet Period. The Course seeks to develop a historical understanding of the major developments in some parts of the Medieval India. It will make understand about the Political changes, career and achievement of the rulers and their administration. Course also focused on Bhakti movement, Sufi movement and their impact on the society.
8	HISDSM-151T	History of India from Shunga to Pushyabhuti Dynasty	This paper focused in understanding the Ancient Indian History. The student will be able to understand about the various sources that help to reconstruct the Ancient Indian History and about the various political achievement of the important dynasties and their Administration.
9	HISSEC-151T	Evolution of Indian Culture	The course aims to provide an overview of the various forms of the subcontinent's popular cultural practices, expressed through oral, visual and other mediums. Exploring the interface between various forms of popular culture and their historical evolution.
10	HISIDC-251T	Gender Studies	The course introduced the basic concept and precepts of gender studies. It encouraged the students to understand the various aspect of gender history and about various laws and organization. By this course student will engaged in feminist debates and discourse of gender study and create gender sensitivity and help them to do research on interdisciplinary approach of understanding gender.
11	Semester-III HISDSC - 201T	History of India (1526-1707)	The course aims to provide comprehensive understanding of the political and social dynamics of the period and their impact on society & politics of Medieval India. The students will also understand

			about the historical events about foreign invasions and their resistances that shaped the political landscape of medieval India.	
12	HISDSC - 202T	History of India from 1707 to 1857CE	It will help the reader to explore and understand the disintegration of the Mughal Empire after the death of Aurangzeb and the rise of Maratha power. It will enable an understanding of Empire after the European political interest in India, the reasons behind their conflicts, expansion of the Company's power, their expansionist policy and about the great resistance from the Indians. By this course, the students will be able to understand about the disintegration of the Mughal Empire after Aurangzeb and about the history of the rise of Maratha power. Also the students will be able to have a clear idea about the expansion of colonial powers, about their policies and about the resistance made by the Indians.	
13	HISDSM-201T	History of India from 650 to 1206 CE	This paper analyzed the transition from historic centuries to the early medieval period of India and will be able to understand about the changes in the realm of polity and culture. This paper also makes understand about the Islamic invasion of India and its resistance.	
14	HISSEC-201T	Historical Tourism in India	Historical Tourism in India This paper highlights the tourism in India with special reference to the historical monuments, cultural and ecological elements and places of the north east India as tourist and heritage sites of the nation. Students will be able to relate to the growing vocation of tourism as an industry and the applicability of historical knowledge for its growth.	
15	HISIDC-201T	Human Rights Education	This paper enable the students to learn about basic Human Right and fundamental freedoms. It will develop students attitude and behavior ;like to respect for the right of others, to promote democracy, development, social justice, communal harmony, solidarity and friendship among people and nations. Students will also understand international activities, tolerance and non-violence.	
16	Semester-IV HISDSC - 251T	HISTORY OF INDIA FROM 1857 TO 1947 CE	This paper designed to help the students to explore and understand the growth of nationalistic feelings in India with the struggle against British colonialism and highlight the role played by the revolutionary leaders in India. It traces different phases of the freedom struggle	

			of India and helps the students assess the role of different leaders in the struggle and to understand the Indian National Movement as an essential step in the making of modern India.
17	HISDSC-252T	History of Assam from 1228 to 1826	The course, History of Assam from 1228 to 1826 CE, aims to provide a comprehensive understanding of the political, social, and economic dynamics of Assam with special reference to the Ahom dynasty and their Impact on society, culture, and politics.
18	HISDSC-253T	History of Europe From 13th Century to 1789 CE	The students will be able to understand about the transformation of Europe from a theocratic society to a modern nation state and also about the Renaissance and its results on European Society, Economy, polity, and Culture of Europe.
19	HISDSM-251T	History of India from 1206 to 1707CE	By this course, the students will be able to understand about the political and social dynamics of the period and their impact on society and politics of that period and will understand about the historical events, including invasions and resistance that shaped the political landscape of medieval India.
20	HISDSM-252T	History of Europe from 1789 A.D-to 1914 C.E	With this course, the students will be able to understand about political development of modern Europe and the historical developments of the socialist upsurge & the economic forces of the wars, and other ideological shifts.
21	Semester-V HISDSC-301T	Making of Contemporary India from 1947-1971 CE	Through this course, the students will be able to understand about the post-Independent Developments of social, political, and economic progresses of India.
22	HISDSC-302T	History of Assam from 1826-1947 CE	By this course the students will be able to understand about the political and social dynamics of Assam with special reference to South Assam and will understand the role of South Assam in the Freedom movement of India and about the impact of Partition.
23	HISDSC-303T	History of Europe from 1789-1914 CE	By introducing this course, the students will be able to understand about the political development of modern Europe and will be able to locate historical developments of the socialist upsurge & the economic forces of the wars, and other ideological shifts.

24	HISDSM-301T	History of India from 1707-1947 CE	After completing this course, the students will be able to understand about political and social dynamics of the period and understand the reasons behind the growth of nationalistic feelings among the people of India, about the different phases of the freedom struggle of India, role of different leaders in the freedom struggle.
25	HISDSM-302T	History of Europe from 1914-1961 CE	With the help of this course, the students will be able to understand about shifting history from Euro-centric to World and they will understand about the turbulent times when totalitarianism rose as an alternative to democratic and liberal ideals and also the growing desire for peace through the formation of organizations such as the United Nations.
26	Semester-VI HISDSC-351T	History of Modern World from 1914-1945 CE	After completing this course, the students will be able to understand about the turbulent times when totalitarianism rose as an alternative to democratic and liberal ideals and the growing desire for peace through the formation of organizations such as the United Nations.
27	HISDSC-352T	History of Japan from 1852-1945 CE	This course helps to provide a comprehensive understanding of Japan in modern times in response to the threat posed by imperialist powers in the late nineteenth century. Japan quickly modernized itself economically and emerged as a major military power posing a challenge to the erstwhile imperialist powers. This course will also provide knowledge about the process of Japan's development, its imperial expansion, its participation in the Second World War, and finally its defeat and occupation by Allied forces.
28	HISDSC-353T	History of Great Britain from 1688-1919 CE	By completing this course, the students will be able to understand about the History of the Great Britain from the Glorious Revolution to her entry into the 1st World War especially about the foreign policies of prominent leaders of England, their expansionist policies etc.
29	HISDSC-354T	Historiography	This course will provide the students to understand the various features of History, its objectives, nature, scope and will be familiarized with the various Historical theories and methods used in historical research.
30	HISDSM-	History of Assam	History of Assam from 1228 to 1826 CE, provided a

	351	from 1228-1826 CE	comprehensive understanding of the political, social, and economic dynamics of Assam with special reference to the Ahom dynasty and their impact on society, culture and politics.
31	Semester-VII HISDSC-401T	Idea of Bharat	Students will be able to acquire knowledge regarding the primitive life and cultural status of the people of ancient India. They will gather knowledge about the society, culture, science, economic and political history of ancient India and they will also acquire the knowledge of changing socio-cultural scenarios of the Ancient India.
32	HISDSC-402T	History of Indian Art & Architecture	The course covered almost all the Indian artistic and architectural heritage of over 5500 years from the time of the Indus Valley Civilization to the colonial period. Thus by this course, the students will not only examine how visual artifacts such as paintings, sculpture and architecture are produced for specific audiences at specific points in time in India, they will also know those very artifacts, and their likenesses are received or appreciated across a larger geo-political and temporal spectrum.
33	HISDSC-403T	History of Assam from 5^{th} century AD to 1228 CE.	By this course, the students will be able to acquire knowledge about the political developments in of Assam during the period between the Fifth and the thirteenth century and about the changes in the field of society, literature, education, art, and architecture etc of the period etc.
34	HISDSC-404T	An Introduction to Historical Research Method	In this course, the students will be able to acquire knowledge about various kinds of research, objectives of doing research, research process, research designs and sampling and have basic knowledge of qualitative research techniques.
35	HISDSM-401T	History of Assam from 1826-1947 CE	Expected learning outcomes of this course is that after completing this course, the students will be able to understand about the major political developments in the History of Assam during the years 1826 to 1947 CE. and political changes and continuities with the role of Assam, especially of South Assam in the Freedom

			struggle.
36	Semester-VIII HISDSC-451T	Economic History of India 1206 to 1707 CE	After completing this course, the students will be able to acquire knowledge about the economic conditions of Medieval India under some important dynasties and about the agriculture, trade, and commerce of that period.
37	HISDSC-452T	Social History of India from 1757-1947 CE	After completing this course, the students will be able to acquire knowledge about the social condition of India in the colonial period and also, they will understand to know the forces that shaped Indian society during the period and Ultimately developed a sense of nationalism, along with the emergence of new social classes, education system and social movements occurred during the period .
38	HISDSC-453T	Economic History of India from 1757-1947 CE	After completing this course, the students will be able to acquire knowledge about the economic history of India under colonial rule and the students will become familiar with the economic ideas, policies and structures of British Colonialism and its interface with the Indian realities.
39	HISDSC-454T	Constitutional and Administrative History of India (1773-1947 CE)	After completing this course, the students will be able to acquire knowledge about the development of the constitutional and administrative history of our country from 1773 to 1947 CE and about various measures taken by the colonial rulers, its provisions and its effects on the Freedom movement in India.
40	HISDSM-401	Historiography	By completing this course, the students will be able to understand about the various features of History, its objectives, nature, scope etc. and will be to familiarize with the various historical theories and methods used in Historical research.

FYUG
PROGRAM/COURSE OUTCOME
DIPHU GOVERNMENT COLLEGE, DIPHU

DEPARTMENT OF MATHEMATICS

Name of the Programme : Bachelor in MATHEMATICS with Honours/Honours and Research

Table 1: Semester-wise list of Mathematics DSC(Discipline Specific Core) Courses

Sl.No	Semester	Course Code	Title of Courses	Outcome
1	I	MATDSC101	Higher Algebra and Trigonometry	After completion of the course, learners will be able to 1. Demonstrate understanding of complex numbers in polar form and apply De Moivre's theorem effectively 2. Analyse and solve problems involving exponential and logarithmic functions with complex arguments and series expansions. 3. Apply formal logic principles to construct logical statements and understand the relationship between roots and coefficients of polynomial equations. 4. Solve polynomial equations and inequalities involving means using appropriate techniques. 5. Solve systems of linear equations using Gaussian elimination and understand concepts related to matrices, rank, and linear dependence/independence.
2	I	MATDSC102	Differential Calculus	After completion of this course, the learners should be able to understand limits, continuity and differentiability and apply these to solve real life problems. The learners should also be able to grasp the concepts of tangents, normals, subtangents, subnormals and solve related problems. This course will also provide an overview of partial derivatives which will be helpful in further courses of study
3	II	MATDSC151	Analytical Geometry	After completion of the course, learners will be able to 1. Know about transformation of co-ordinate axes, pair of straight lines, angle between pair of straight lines, orthogonal circles, radical axis, parabola, hyperbola and ellipse. 2. Know about how to determinate the pole and polar w.r.t. circle, parabola, hyperbola, ellipse and polar form of conics.

				3. Know about spheres, formula to find shortest distance and great circles, etc. 4. Know about definition of cone, right circular cone, cylinder, right circular cylinder and its related problems
4	II	MATDSC152	Integral Calculus and Vectors	After completion of the course, learners will be able to 1. Solve problems of definite and indefinite Integrations and learn properties of definite integrals. 2. Prove reduction formulae and solved some problems by using these formulae. 3. Explain the importance of integrations and its techniques to solve real life problems. 4. Understand vector calculus and related problems

Table 2: Semester-wise list of Mathematics DSM (Discipline Specific Minor) Courses

Sl.No	Semester	Course Code	Title of Courses	Outcome
1	I	MATDSM101	Calculus	After completion of this course, the learners will be able to 1. Solve the problems of limits, continuity, derivative and integration. 2. Apply Calculus in real life problems.
2	II	MATDSM151	Calculus	After completion of this course, the learners will be able to 1. Solve the problems of limits, continuity, derivative and integration. 2. Apply Calculus in real life problems.

Table 3: Semester-wise list of Mathematics SEC (Skill Enhancement Course) Courses

Sl.No	Semester	Course Code	Title of Courses	Outcome
1	I	MATSEC101	Mathematical Skill Development with Software (Theory with Practical)	After completing the course, learners will 1. Build a solid understanding of the core principles that underpin various branches of mathematics, laying the groundwork for their application in science and technology fields. 2. Gain proficiency in utilising mathematical software to solve a wide range of mathematical problems.
2	II	MATSEC151	Mathematical Programming in C (Theory with Practical)	On successful completion of the course, learners will be able to 1. demonstrate a comprehensive understanding of the syntax, variables, and data types used in the C programming language,

				2. apply C programming concepts effectively to solve mathematical problems, including calculating areas, determining leap years, and checking for prime numbers, 3. develop efficient C programs to compute factorials, sum of series, and manipulate arrays for mathematical computation, 4. utilise decision control structures (if-else, switch) and loops (for, while, do-while) proficiently in mathematical programming scenarios, 5. design and implement modular programs by defining functions, passing arguments, and using return statements to solve mathematical problems.

Table 4: Semester-wise list of IDC Courses

Sl.No	Semester	Course Code	Title of Courses	Outcome
1	I	MATIDC101	Foundation Course in Mathematics	After completion of the course, learners will be able to 1. Understand and apply concepts of numbers, fractions, ratios, percentages, and basic financial calculations. 2. Solve problems related to time, work, speed, distance, exponents, surds, sets, and equations. 3. Apply principles of permutation, combination, binomial theorem, and introductory probability. 4. Demonstrate proficiency in working with matrices, including operations, determinants, and solving linear equations. 5. Apply mathematical concepts to real-life scenarios, develop critical thinking and problemsolving skills, and communicate mathematical ideas effectively.
2	II	MATIDC151	Geometry	After completion of the course, learners will be able to 1. Apply coordinate geometry to solve real-world problems, such as distance calculations and area determinations. 2. Solve geometric problems involving straight lines, including determining angles, intersections, and perpendiculars. 3. Demonstrate understanding of conic sections and their equations, and solve problems involving parabolas, hyperbolas, and ellipses

FYUG
PROGRAM/COURSE OUTCOME
DIPHU GOVERNMENT COLLEGE, DIPHU

DEPARTMENT OF PHILOSOPHY

Name of the Programmes: TDC(BA) Honoursin Philosophy(CBCS)
TDC(BA) General in Philosophy (CBCS)
Course Outcome of philosophy honours

Sl. No.	Course Code	Course Description	Course Outcome
1	PHPHCC101T	Epistemology and Metaphysics: Indian	This paper concentrates on the fundamental concepts of knowledge and truth of Indian philosophy. It helps students to develop a strong foundation of Indian philosophy. Indian Philosophy broadly divided into two groups: Vedic (astika) and non-Vedic (Nastika). There are six vedic schools and three non-Vedicschools. Among these systems this paper contains the general ideas of Nyaya,Vaisesika, Samkhya,Vedanta and three Non-Vedic schools - Carvaka, Jaina and Buddhism.
2	PHPHCC102T	Logic-I	This course helps the students to understand the basic concepts of Logic such as the nature of logic, argument and argument form, different methods to provethe validity and invalidity of arguments. This paper also concentrates on the concepts regarding the different kinds of traditional and modern propositions, various kinds of deductive inference which develops the reasoning power of students.
3	PHPHCC201T	Epistemology and Metaphysics (Western)	This course aims to get students acquainted with the knowledge and truth about Western philosophy. The paper concentrates on the philosophy of Plato, Aristotle, Kant, John Locke, Hegeland Hume.
4	PHPHCC202T	Ethics- I	This paper provides an understanding of the fundamental concepts of ethics and its scope like normative ethics, virtue ethics and deontological ethics. Ethics is a study of moral issues in the fields of individual and

			collective interaction. This paper enables students to have a broad understanding of some ethical issues like rights and duties, Good and virtue and the objects of moral judgements etc. The paper also concentrates on Indian ethics regarding purusartha, ahimsa etc.
5	PHPHCC301T	History of Modern Western Philosophy	The course helps the students to understand the history of Modern Western philosophy. This paper concentrates on the philosophy of Descartes, Spinoza, Leibnitz, Locke, Berkeley, Hume, Kant, Hegel and Marx. This paper aims to get students acquainted with empiricism, rationalism and Kant's Critical theory of knowledge.
6	PHPHCC302T	Social and Political Philosophy	This particular course covers the primary concepts of social and political philosophy. Social and political philosophy is a normative pursuit, related to Ethics. Through this paper students get the knowledge regarding the values related to individual, society, community and nation.
7	PHPHCC303T	Ethics – II	The course helps the students to know about some ethical theories such as Meta ethics, emotivism and prescriptivism of some distinguished philosophers. The paper also concentrates on some applied ethical issues like animal rights, euthanasia, amniocentesis etc. This paper also provides to the students about the knowledgeof medical ethics, business ethics and feminist ethics.
8	PHPHCC401T	Classical Text- Indian	This paper provides students to have a broad understanding of classical Indian Text. The paper consists of various theories of knowledgeof Indian philosophy particularly in Nyaya logic.The paper mainly focusseson Annambhatta's text *Tarka Samgraha Dipika.*
9	PHPHCC402T	Classical Text-Western	This course aims to get students acquainted with the philosophy of David Hume. This paper aims to make the students to know about Hume's view on impression and ideas, Necessary connection, Liberty and Necessity, skepticism etc.
10	PHPHCC403T	Logic II	The course helps the students to know about fundamental concepts of logical reasoning.

			The paper concentrates on some important topics regarding laws of thought, quantification, Mill's method of experimental enquiries, hypothesis and science etc.
11	PHPHCC501T	Contemporary Western Philosophy	This paper aims to make the students critically analyze various perspectives in the field of Contemporary Western Philosophy. The paper consists of the philosophy of Bertrand Russell, Wittgenstein, Husserl, A.J. Ayer and J.P Sartre.
12	PHPHCC502T	Philosophy of Mind	This paper provides an understanding of the basic concepts of philosophy of mind like personhood, personal identity, mind-body dualism, problem of other minds etc. Philosophy of mind is the philosophical study of the exact nature of the mind, mental events, mental functions, mental properties and consciousness and whether these have a relationship with the physical body.
13	PHPDSE501T	Greek Philosophy	The course helps the students to understand the pre-Socratic philosophy, sophist's philosophy, Philosophy of Socrates, Plato and Aristotle.
14	PHPDSE502T	Comparative Religion	This paper helps the students to understand the comparative study of different religious traditions and their implications. The paper provides the ideas of possibility of Interreligious dialogue, religious pluralism, religious relativism etc.
15	PHPHCC601T	Philosophy of Religion	This course aims to get students acquainted with the philosophical study of the meaning and the nature of religion. This particular course covers the primary concepts of the relation between religion and morality, religion and science. The paper also consists of the general views regardingthe arguments for the existence of God, problem of evil etc.
16	PHPHCC602T	Contemporary Indian Philosophy	This paper aims to get students acquainted with the philosophy of certain renowned contemporary Indian Philosophers. This particular course covers the philosophical thoughtof Indian thinkers such as Swami Vivekananda, Sri Aurobindo, M.K. Gandhi, R.N Tagore, S. Radhakrishnan, K.C.

			Bhattacarjee and Md. Iqbal.
17	PHPDSC601T	Phenomenology and Existentialism	The course helps the students to understand the meaning and concepts of phenomenology as a philosophy of experience and existentialismas a philosophical theory aim towards human existence. This paper concentrates on the philosophy of Edmund Husserl, Kierkegaard, Nietzsche, Sartre, Heidegger and Martin Buber.
18	PHPDSE602T	Philosophy of M.K. Gandhi	The paper provides an understanding of religious and social ideas implemented and developed by Mahatma Gandhi. The course helps the students to philosophically understand the Gandhian concept regarding nonviolence, truth, Swaraj, Swadeshi,Sarvodaya,Satyagraha, religion etc.

Course Outcome of philosophy General

Sl.No	Course Code	Course Description	Course Outcome
1	PHPDSE/GE101T	Logic	This course helps the students to understand the basic concepts of Logic such as the nature of logic, argument and argument form, different methods for proving the validity and invalidity of arguments. This paper also concentrates on the concepts regarding the different kinds of traditional and modern proposition, various kinds of deductive inference which develops the reasoning power of students.
2	PHPDSE/GE201T	Ethics	This paper provides an understanding of the fundamental concepts of ethics and its scope like normative ethics, virtue ethics and deontological ethics. Ethics is a study of moral issues in the fields of individual and collective interaction. This paper enables students to have a broad

			understanding of some ethical issues like rights and duties, Good and virtue and the objects of moral judgements etc. The paper also concentrates on Indian ethics regarding purusartha, ahimsa etc.
3	PHPDSE/GE301T	Epistemology and Metaphysics (Indian)	This paper concentrates on the fundamental concepts of knowledge and truth of Indian philosophy. It helps students to develop a strong foundation of Indian philosophy. Indian Philosophy broadly divided into two groups: Vedic (astika) and non-Vedic (Nastika). There are six vedic schools and three non-Vedic scools. Among these systemsthis paper contains the general ideas of Nyaya,Vaisesika, Samkhya,Vedanta and three non-Vedic schools - Carvaka, Jaina and Buddhism
4	PHPDSE/GE401T	Epistemology and Metaphysics (Western)	This course aims to get students acquainted with the knowledge and truth about Western philosophy. The paper concentrates mainly on the philosophy of Plato, Aristotle, Kant, John Locke, Hegel and Hume.
5	PHPDSE 501T	Contemporary Western Philosophy	This paper aims to make the students critically analyze various perspectives in the field of Contemporary Western Philosophy. The paper consists of the philosophy of Bertrand Russell, Wittgenstein, Husserl, A.J. Ayer and J.P Sartre.
6	PHPGE 501	Logic	This course helps the students to understand the basic concepts of Logic such as the nature of logic, argument and argument form, different methods for proving the validity and invalidity of arguments. This paper also concentrates on the concepts

			regarding the different kinds of traditional and modern proposition, various kinds of deductive inference which develops the reasoning power of students.
7	PHPDSE 601T	Contemporary Indian Philosophy	This paper aims to get students acquainted with the philosophy of certain contemporary Indian Philosophers. This particular course covers the philosophical thought of some eminent Indian thinkers such as Swami Vivekananda, Sri Aurobindo, M.K. Gandhi, R.N Tagore, S. Radhakrishnan, K.C. Bhattacarjee and Md. Iqbal.
8	PHPGE601T	Ethics	This paper provides an understanding of the fundamental concepts of ethics and its scope like normative ethics, virtue ethics and deontological ethics. Ethics is a study of moral issues in the fields of individual and collective interaction. This paper enables students to have a broad understanding of some ethical issues like rights and duties, Good and virtue and the objects of moral judgements etc. The paper also concentrates on Indian ethics regarding purusartha, ahimsa etc.

Course Outcome of philosophySEC for honours and general

Sl.No	Course Code	Course Description	Course Outcome
1	PHPSEC301T (Honours+General)	Logical Reasoning I	Thispaper helps the students to know about the methods of deductive and inductive reasoning, analytical reasoning, syllogism, anumana, truth functional logic etc.The paper also aims to get students acquainted with the techniques of symbolization and the method of

			Formal proof of validity.
2	PHPSEC 401 (Honours+General)	Applied Ethics	The paper provides an understanding of the basic concepts of Applied Ethics which consists of the discussion of the application of normative ethical theories to practical moral problems like abortion, surrogacy, euthanasia, suicide, animal rights etc.
3	PHPSEC 501T (General)	Logical Reasoning II	This course helps the students to understand the primacy of Logical reasoning, symbolization, anumana, proof construction and preliminary set theory. This paper also provides an understanding of the shorter truth table method for proving invalidity and the various kinds of fallacies in Indian logic.
4	PHPSEC 601T (General)	Applied Ethics II	This paper aims to make the students critically analyze various perspectives in the field of Applied Ethics which consists of philosophical study of the ethical controversies brought about by advances in biology, biotechnology,medicine, and environment.

Course Outcome of FYUG Course in philosophy

Sl.No	Course Code	Course Description	Course Outcome
1	PHIDSC101T	Epistemology and Metaphysics (Indian)	This paper concentrates on the fundamental concepts of knowledge and truth of Indian philosophy. It helps students to develop a strong foundation of Indian philosophy. Indian Philosophy broadly divided into two groups: Vedic (astika) and non-Vedic (Nastika). There are six vedic schools and three Non Vedic schools. Among these systems this paper contains the general ideas of Nyaya,Vaisesika,Samkhya,Vedanta and three Non-Vedic schools -

			Carvaka, Jaina and Buddhism.
2	PHIDSC102T	Epistemology and Metaphysics (Western)	This course aims to get students acquainted with the knowledge and truth about Western philosophy. The paper concentrates mainly on the philosophy of Plato, Aristotle, Kant, John Locke, Hegel and Hume.
3	PHIDSM101T	Epistemology and Metaphysics (Indian)	This paper concentrates on the fundamental concepts of knowledge and truth of Indian philosophy. It helps students to develop a strong foundation of Indian philosophy. Indian Philosophy broadly divided into two groups: Vedic (astika) and non-Vedic (Nastika). There are six vedic schools and three Non Vedic schools. Among these systems this paper contains the general ideas of Nyaya,Vaisesika,Samkhya,Vedanta and three Non-Vedic schools - Carvaka, Jaina and Buddhism.
4	PHISEC101T	Logic I (Aristotelian Logic)	This course helps the students to understand the basic concepts of Logic such as the nature of logic, argument and argument form, different methods for proving the validity and invalidity of arguments. This paper also concentrates on the concepts regarding the different kinds of traditional and modern proposition, various kinds of deductive inference which develops the reasoning power of students.
5	PHIDC101T	Applied Ethics	The paper provides an understanding of the basic concepts of Applied Ethics which consists of the discussion of the application of normative ethical theories to practical moral problems like abortion, euthanasia etc.This paper also concentrates on theprofessional ethics, Medical ethics, Media ethics corporate and social responsibility etc.

6	PHIDSC151T	Ethics I (Indian)	This paper helps the students to know about the concepts of Indian ethics, its meaning, nature and scope. This course aims to get students acquainted with theethics of Buddhism, Jainism, Carvaka, Yoga and Mimamsa Ethics.This paper concentrates on Swami Vivekananda's concept of Practical Vedanta, Gandhi's Ahimsa and Satyagraha and R.N. Tagore's ethics of Humanism.
7	PHIDSC152T	Ethics II (Western)	This paper provides an understanding of the fundamental concepts of ethics and its scope like teleological ethics, virtue ethics and deontological ethics. Ethics is a study of moral issues in the fields of individual and collective interaction. This paper enables students to have a broad understanding of some ethical theories such as hedonism, emotivism deontological pluralism. This paper also provides an understanding of some issues of applied ethics.
8	PHIDSM151T	Epistemology and Metaphysics (Indian)	This paper concentrates on the fundamental concepts of knowledge and truth of Indian philosophy. It helps students to develop a strong foundation of Indian philosophy. Indian Philosophy broadly divided into two groups: Vedic (astika) and non-Vedic (Nastika). There are six vedic schools and three Non Vedic schools. Among these systems this paper contains the general ideas of Nyaya,Vaisesika, Samkhya,Vedanta and three Non-Vedic schools - Carvaka, Jaina and Buddhism.
9	PHISEC151T	Logic II (Modern Logic)	This paper helps the students to know about the methods of deductive and inductive reasoning, analytical reasoning, syllogism,

			anumana, truth functional logic etc. The paper also aims to get students acquainted with the techniques of symbolization and the method of formal proof of validity.
10	PHIDC151T	Environmental Ethics	This paper provides an understanding of the fundamental concepts of environmental ethics, importance of it, the various types and theories of environmental ethics like ecofeminism, deep ecology, social ecology anthropocentrism, ecocentrism, biocentrism. This paper concentrates on importance of animal ethics and animal rights and also the importance of Bioethics in contemporary society.

FYUG
PROGRAM/COURSE OUTCOME
DIPHU GOVERNMENT COLLEGE, DIPHU

DEPARTMENT OF PHYSICS

Course Outcome (CO) of FYUG program of Physics

Paper Code	Paper Name	Course Outcome
PHYDSC101T	Mathematical Physics-I	After completing this course, the students will be able to understand the concepts of vector algebras, vector calculus in addition to performing line, surface and volume integration and apply various theorems to compute these integrals. The students will also be able to understand concepts of curvilinear coordinates along with ideas of special functions and some numerical techniques.
PHYDSC102T	Mechanics and Relativity	Upon completion of this course, the students will be able to learn the concepts of collisions, rotational dynamics, gravitation, oscillations, central forces and the Special Theory of Relativity including Lorentz transformations and its consequences
PHYDSC151T	Electricity and Magnetism	After completing this course, the students will be able to apply Gauss's law of electrostatics to distribution of charges, understand the effects of electric polarization and concepts of bound charges in dielectric materials, understand the applications of Biot-Savart's law to calculate magnetic field, understand concepts of thermoelectricity along with their applications and also understand various network theorems for analysing various dc circuits.
PHYDSC152P	Lab.: (Part A: Mechanics + Part B: Electricity)	At the end of the above course the students will have hands-on knowledge and overview of various experiments related to various key aspects of mechanics and electricity.
PHYDSC201T	Waves and Optics	On successful completion of this course, the students will have the skill and knowledge to, understand simple harmonic motion, superposition of collinear harmonic oscillations, phenomena of interference, diffraction, various interferometers, zone plates and holography as manifestation of interference.

Paper Code	Paper Name	Course Outcome
PHYDSC202T	Thermal Physics	At the end of this course, the students will get an essence of the basic concepts of thermodynamics - the first and the second law of thermodynamics, the concept of entropy and the associated theorems along with the thermodynamic potentials and their physical interpretations. They are also expected to learn Maxwell's thermodynamic relations, the fundamentals of the kinetic theory of gases, Maxwell-Boltzmann distribution law, mean free path of molecular collisions, transport phenomena including Brownian motion.
PHYDSC251T	Mathematical Physics-II	At the end of this course, the students will be able to represent a periodic function by a sum of harmonics using Fourier series and their applications in physical problems. Students are also expected to, obtain power series solution of differential equation of second order with variable coefficient using Frobenius method, understand properties and applications of special functions like Legendre polynomials, Bessel functions and their differential equations, recurrence relations, learn about Laplace transform and inverse transform along with their applications.
PHYDSC252T	Electronics (Analog + Digital)	At the end of this course the students are expected to be conversant with semiconductors devices like junction diodes, transistors along with their applications. Students are also expected to have the clear idea of synthesis of Boolean functions, simplification and construction of digital circuits like flipflops, multiplexers, adders by employing Boolean algebra.
PHYDSC253P)	Lab.: (Part A: Thermal Physics + Part B: Analog Electronics)	For demonstrating comprehensive knowledge and understanding, at the end of the above course the students will have hands-on knowledge and overview of various instruments and perform experiments related to various key aspects of thermal physics and analog electronics.

Paper Code	Paper Name	Course Outcome
PHYDSC301T	Modern Physics	At the end of this course the students are expected to develop a comprehensive idea of the main aspects of the inadequacies of classical mechanics and understand historical

		development of quantum mechanics and ability to discuss and interpret experiments that reveal the dual nature of matter, understand the theory of quantum measurements, wave packets and Uncertainty Principle, understand the central concepts of quantum mechanics: wave functions, various operators, the Schrodinger equation, probability density and the normalization techniques etc. Students are also expected to have the basic idea of some atomic models and applications of LASERs.
PHYDSC302T	Introduction to classical mechanics and electromagnetic theory	At the end of this course the students are expected to know the Lagrangian and the Hamiltonian formulations of classical mechanics and their applications in appropriate physical problems. Students are also expected to have the basic idea with which they can comprehend the role of Maxwell's equations in unifying electricity and magnetism.
PHYDSC303P	Lab.: (Part A: Ray Optics + Part B: Physical Optics)	For demonstrating comprehensive knowledge and understanding, at the end of the above course the students will have the hands-on experience of using various optical instruments like optical bench, spectrometer, travelling microscopes and polarimeter.
PHYDSC351T	Nuclear and Particle Physics	At the end of this course the students are expected to develop the skills to describe and explain the properties of nuclei and derive them from various models of nuclear structure. The students are also expected to understand, explain and derive the various theoretical formulation of nuclear disintegrations like α, β and γ decays, understand the construction and operation of detectors and particle accelerators and finally to develop the basic knowledge of elementary particles as fundamental constituent of matter, their properties, conservation laws during their interactions.

Paper Code	Paper Name	Course Outcome
PHYDSC352T	Statistical Mech. and Plasma Physics	: At the end of this course the students are expected to understand the concepts of microstate, macrostate, ensemble, phase space, thermodynamic probability and partition function, understand the combinatory studies of

		particles with their nature and conditions which lead to the three different distribution laws, develop the ability to derive radiation laws of black body radiation. Students are also expected to learn Gibb's paradox & its resolution, understand the macroscopic properties of degenerate photon gas and degenerate fermi gas. Finally, the students are expected to know the basic ideas of plasma state of matter with ideas of composition, behaviour, magnetic confinement etc.
PHYDSC353T	Solid State Physics	At the end of this course the students are expected to learn the basics of crystal structure and physics of lattice dynamics, the physics of different types of magnetic materials and their properties, understand the physics of insulators, semiconductor and conductors with special emphasis on the elementary band theory, comprehend the basic theory of superconductors, Type I and II superconductors, their properties and concept of BCS theory.
PHYDSC354P	Lab.: (Part A: Solid State Physics + Part B: Digital Electronics)	For demonstrating comprehensive knowledge and understanding, at the end of the above course, the students will have the hands-on experience of using various instruments to carry out experiments based on the theory that they have learned to measure the magnetic susceptibility, dielectric constant, to trace hysteresis loop, hall coefficient, Planck's constant. The students are also expected to verify the fundamental and universal logic gates, construct both combinational circuits and sequential circuits by employing logic gates and demonstrate adders, multiplexers and flip flops.

Paper Code	Paper Name	Course Outcome
PHYDSC401T	Mathematical Physics -III	At the end of this course the students are expected to learn the basics of linear vector spaces, group theory, tensors and their applications in various physical problems. Moreover, the students are expected to gain the knowledge of various mathematical tools like complex analysis, integral transform which will equip the students with skills to solving a given ODE, PDE.

PHYDSC402T	Classical Mechanics	At the end of this course the students are expected to learn the Lagrangian and the Hamiltonian formulations of classical mechanics and their applications in appropriate physical problems. Students are also expected to have the idea of Hamilton Jacobi theory, Kepler problem in action-angle variables, Euler's angles, Euler's equations of motion and small oscillations.
PHYDSC403T	Quantum Mechanics - I	At the end of this course the students are expected to learn the mathematical formalism of Hilbert space, hermitian operators, eigen values, eigen states and unitary operators, which form the fundamental basis of quantum theory. Application to simple harmonic oscillators, hydrogen-like atoms and angular momentum operators will teach the students how to obtain eigen values and eigen states for such systems elegantly. Students are also expected to have fair knowledge on various symmetry transformations and time-independent Perturbation theory and its applications.
PHYDSC404P	Lab.: (Part A: Numerical Tech. & Programming including Quantum mechanics + Part B: Simulation & Software based learning of electronics i.e. virtual Labs)	For demonstrating comprehensive knowledge and understanding, at the end of the above course, the students are expected to have thorough familiarity with computing softwares and developing skills of writing codes for various numerical computations. The Online Virtual Lab Experiments are expected to give an insight in simulation techniques and provide a basis for modelling of electronic circuits.

Paper Code	Paper Name	Course Outcome
PHYDSC451T	Quantum Mechanics - II	At the end of this course the students are expected to learn applications of time-dependent perturbation theory, WKB approximation, Scattering by spherically symmetric potentials, partial waves, Born approximation and its validity, relativistic formulation of Quantum Mechanics, Dirac spinors, fine structure of hydrogen atom, interpretation of negative energy solution, Concept of systems with infinite degrees of

		freedom, Classical fields and Canonical quantization of scalar field.
PHYDSC452T	Electromagnetic Theory	At the end of this course the students are expected to learn Lorentz transformation in 4-dimensional Space, Covariant formalism of electromagnetism, Motion of a charged particle in electromagnetic field, Saha's equation of ionization, Plasma oscillations, Plasma Parameters, Radiation from an accelerated point charge, Retarded potentials, dipole radiations and electromagnetic scattering formulations.
PHYDSC453(A)T	Astronomy Astrophysics and Cosmology	At the end of this course the students are expected to learn basic concepts of positional astronomy, astronomical techniques, telescope optics and instrument detectors. Students are also expected to gather knowledge on the formation of planetary system and its evolution with time, the physical properties of Sun and the components of the solar system with special reference to our Milky Way galaxy. On successful completion of this course, the students will also have the knowledge to understand the physical laws that enable us to know the origin and evolution of galaxies, presence of dark matter and large-scale structures of the Universe.

Paper Code	Paper Name	Course Outcome
PHYDSC453(B)T	Nano Science and Material science	At the end of this course the students are expected to learn basic concepts of nano scale systems, Role of particle size, Nanostructures, Quantum confinement, Synthesis and characterization of nano materials along with applications of nanoparticles, quantum dots, nanowires and thin films and Nanomaterial Devices. On successful completion of this

		course, the students are expected to know the methods of creating many new materials and devices with a range of applications, such as nanoelectronics, biomaterials energy production and consumer products.
PHYDSC454T	Atomic and Molecular Physics	At the end of this course the students are expected to learn concepts various atomic models with their limitations, space quantization, Effect of nuclear motion on atomic spectra, the atomic spectra of one and two valance electron atoms, L-S and J-J couplings, Origin of molecular spectra and Raman effect.
PHYDSM101T	Mechanics, Relativity and Math Physics	After completing this course, the students will be able to understand the concepts of vector algebras and differential equations. Moreover, upon completion of this course, the students will be able to learn the concepts rotational dynamics, gravitation, elasticity, fluids and the Special Theory of Relativity including Lorentz transformations and its consequences.
PHYDSM151T	Mechanics, Relativity and Math Physics	After completing this course, the students will be able to understand the concepts of vector algebras and differential equations. Moreover, upon completion of this course, the students will be able to learn the concepts rotational dynamics, gravitation, elasticity, fluids and the Special Theory of Relativity including Lorentz transformations and its consequences.

Paper Code	Paper Name	Course Outcome
PHYDSM201T	Electricity, Magnetism and Electronics	After completing this course, the students will be able to apply Gauss's law of electrostatics to distribution of charges, understand the applications of Biot-Savart's law to calculate magnetic field, understand the classification of magnetic materials and understand the process of electromagnetic induction. The students are also expected to learn the introductory ideas of analog and digital electronics.

PHYDSM251P	Lab. (Mechanics + Optics) and (Electricity + Electronics)	At the end of the above course the students will have hands-on knowledge and overview of various experiments related to various key aspects of mechanics, optics, electricity and electronics.
PHYDSM252T	Electricity, Magnetism and Electronics	After completing this course, the students will be able to apply Gauss's law of electrostatics to distribution of charges, understand the applications of Biot-Savart's law to calculate magnetic field, understand the classification of magnetic materials and understand the process of electromagnetic induction. The students are also expected to learn the introductory ideas of analog and digital electronics.
PHYDSM301T	Waves and Oscillations, Optics and Thermal physics	On successful completion of this course, the students will have the skill and knowledge to, understand simple harmonic motion, phenomena of interference, diffraction, polarization, various thermodynamical processes, thermodynamical potentials, kinetic theory of gases and the process of blackbody radiation.
PHYDSM302T	Waves and Oscillations, Optics and Thermal physics	On successful completion of this course, the students will have the skill and knowledge to, understand simple harmonic motion, phenomena of interference, diffraction, polarization, various thermodynamical processes, thermodynamical potentials, kinetic theory of gases and the process of blackbody radiation.

Paper Code	Paper Name	Course Outcome
PHYDSM351P	LAB: (MECHANICS +OPTICS) AND (ELECTRICITY + ELECTRONICS)	At the end of the above course the students will have hands-on knowledge and overview of various experiments related to various key aspects of mechanics, optics, electricity and electronics.
PHYDSM401T	MODERN PHYSICS AND SOLID STATE PHYSICS	At the end of this course the students are expected to develop a comprehensive idea of the introductory quantum mechanics and ability to discuss and interpret the facts that reveal the

		dual nature of matter and the Uncertainty Principle with its applications. Students are also expected to have the basic idea of crystal structure and physics of lattice dynamics in addition to Radioactivity covering various properties of nuclei and their decay processes.
PHYDSM451T	MODERN PHYSICS AND SOLID STATE PHYSICS	At the end of this course the students are expected to develop a comprehensive idea of the introductory quantum mechanics and ability to discuss and interpret the facts that reveal the dual nature of matter and the Uncertainty Principle with its applications. Students are also expected to have the basic idea of crystal structure and physics of lattice dynamics in addition to Radioactivity covering various properties of nuclei and their decay processes.
PHYSEC101	WORKSHOP SKILL	At the end of this course the students are expected to develop theoretical knowledge on various workshop skills such as mechanical skills, machining process, electrical skills and electronic skills along with their hand on experience.
PHYSEC151	ELECTRICAL CIRCUITS AND SAFETY	At the end of this course the students are expected to get acquainted with the theoretical knowledge on various electrical circuits and their safety measures along hands-on learning.

Paper Code	Paper Name	Course Outcome
PHYSEC201	RENEWABLE ENERGY AND ENERGY HARVESTING	At the end of this course the students are expected to get acquainted with the theoretical knowledge on various energy sources such as Fossil fuels, Solar energy, Wind energy, Ocean Energy, Geothermal Energy, Piezoelectric energy along with energy harvesting techniques through the exposure of hands-on learning.
PHYIDC101T	PHYSICS IN DAILY LIFE	At the end of this course the students are expected to connect their surroundings by understanding the basic rules of Nature and able to connect some daily life observations to Physics principles. Moreover, this course expects students to have some ideas on various

		commonly used appliances and various Bio-imaging techniques which in inevitable for present day therapeutics.
PHYIDC151T	UNDERSTANDING THE CLIMATE	At the end of this course the students are expected to learn basic concepts of earth atmospheric composition, meteorological processes, weather and climate, climate change and ways of mitigating the issues of climate change along with various types of environmental pollutions.
PHYIDC201T	RENEWABLE ENERGY AND ENERGY HARVESTING	At the end of this course the students are expected to acquire basic knowledge on various energy sources such as Fossil fuels, Solar energy, Wind energy, Ocean Energy, and cause of environmental degradation due to energy production and utilization along with few energy harvesting techniques.

Program Outcome (PO) of FYUG program in Physics

The program outcome of FYUG program in Physics is that the students will be acquainted with the fundamental concepts on the different branches in Physics. The students will develop an understanding on Classical Mechanics, Electromagnetism, Thermodynamics, Optics, Statistical Mechanics, and Modern Physics. Theoretical knowledge gained by the students through their process of learning during their UG course will help them to solve problems in diverse areas in Physics. Students will also acquire basic skills in Experimental Physics through measurement techniques, data analysis and interpretation. They will also develop computational skills through applications of computer programming languages in solving different types of problems in Physics during their period of involvement in computer laboratory. Students after completion of the program will be able to develop critical thinking skills to analyse and evaluate scientific information and theories. Communication skills of students will improve through their viva in practicals, written assignments, presentation of dissertation and discussions on Physics topics.

Students will gain insights towards application of Physics principles in everyday life and in various fields of Science and Technology. They will understand the importance of ethical professional conduct in scientific research and practice. The foundation built in them through the completion of the program will boost their desire for higher studies and research in Physics. Differents skills developed during their study of FYUG course in Physics, i.e. workshop skills, laboratory skills, creative thinking skills, problems solving skills, etc., will be an added advantage for their employments.

FYUG
PROGRAM/COURSE OUTCOME
DIPHU GOVERNMENT COLLEGE, DIPHU

DEPARTMENT OF PLITICAL SCIENCE

Serial No	Paper Code	Name of the Course	Outcomes
1.	DSC 101	Introduction to Political Theory	This paper begins with the understandingof the meaning and nature of Politics and its difference with Political Science and Political Theory. It also includes issues such as Democracy, liberty, equality, Justice, state and Civil Society. An attempt is made to acquire knowledge about the concepts such as citizenship, rights, Human Rights and the UNO. It also spells outdebates on thecompatibility of democracy with economic growth and also on Protective discrimination vs. the Principle of Fairness.
2.	DSC-102	Indian Government and Politics	This paper delves into the Indian Constitution- its making and salient features, Fundamental Rights and Duty, Directive Principles of State Policy, Federalism- Union-State Relation, Election and impeachment of the President, powers and Functions of the Prime Minister, Union Council Of Minister, Parliamentary-relation between the Lok Sabha and the Rajya Sabha, Supreme Court-Judicial Review and Judicial Activism. The issue of democratic decentralization-working of the Panchayat, Urban bodies and Sixth schedule bodies arealso being addressed in this paper.
3.	DSM-101	Introduction to Political Theory	This paper spells out the meaning of Politics, Political Science and Political Theory. It also throws light on democracy, liberty, equality, justicecitizenship-meaning, features, genesis acquisition and loss of Citizenship, rights- its meaning nature, kinds including human rights and the UNO. Relationship between State and Civil Society, Debates onCensorship,

			protective Discrimination and intervention of State and family are also the issues that are articulated in this paper.
4	IDC- 101	Political Theory-Basic Concepts	This paper incorporates the nature, scope and relevance of Political Theory, its relationship with history, economicsand Sociology. In addition, the idea of State-itsdefinition and elements, theories of the state, sovereignty-meaning, definition and kinds of sovereignty,monistic and pluralistic theories of sovereignty, democracy and dictatorship, Unitary, Federal, Parliamentary and Presidential forms of government are also extensively dealt with in this paper.

5	SEC-101	Legislative Support	This paper has dealt with issues such as Members of the Parliament and State Legislature,Role and Functions of People's Representatives in the Rural and Urban bodies, Local Self-Government, Law-Making Procedure in Indian Parliament, Amendment Procedure of the Constitution,Parliamentary Committees, Union budget-Role of the Parliamentary Committees.
	FYUG—2ND SEMESTER		
1.	DSC 151	Theory-Concept and Debates Political	This paper has elucidated the Importance of Freedom, Negative and Positive Liberty, Significance of Equality, formal equality, Political and Egalitarianism with reference to India. It also includes topics such as idea and concept of justice, Universality of Rights-- Three Generation of Rights, Major debates on Human Rights and Multi-culturalism, Human rights-Universalism Vs. Cultural Relativism. Multi-culturalism and the idea of Toleration.
2.	DSC-152	Political Process in India	This paper incorporates issues such as Party System-its trends and functions, caste, class, patriarchy andfunctions. Issues such as religion and Debates on Secularism and Communalism, regional aspirations, the growing trends on politics of secession

			and accommodation, Social Movement in India such as Women's Movement, Environmental Movement. It also incorporates issues such as the Strategy of planned development, Neo-liberalism and New Economic Reforms.
3.	DSM-151	Introduction to Political Theory	This paper spells out themeaning of Politics, Political Science and Political Theory. It also deals with issues such as Democracy-its form, characteristics, liberty- its features, forms and safeguards, equality-its nature and Kinds, Justice –its types and including Rawl's theory of Justice. Other pertinentissues such as Citizenship, Human rights,Censorship, Protective discrimination are also extensively dealt with in this paper.
4.	IDC-151	Indian Political System	This paper features the Constitution of India, Preamble, Fundamental Rights and Duties, Directive Principles of State Policy, election, powers, Functions and impeachment of the President. Appointment, powers, functions and role of the Prime Minister of India and also the Union Council of Minister, relationship between the Lok Sabha and the Rajya Sabha, Composition and jurisdiction of theSupreme Court and the power of Judicial Review.
5.	SEC-151	Public Opinion and Survey Research	In this paper, topics such as definition, characteristics and role of public Opinion, meaning and types of Sampling, Sampling error, interviewing techniques and its pitfalls, Questionnaire, Schedule, data processing and analysis, content analysis, discourse analysis are dealt with. In addition, Understanding opinion polls-exit polls, case study of Lok Niti and its merits and demerits also find place in this paper.

FYUG
PROGRAM/COURSE OUTCOME
DIPHU GOVERNMENT COLLEGE, DIPHU

DEPARTMENT OF ZOOLOGY

Course outcome & Programme outcome

Sl. No.	Semesters	Course title & code	Course outcome	Program outcome
1.		Diversity of Non Chordates- ZOODSC- 101	Students will be able to classify and describe the diverse group of non chordate animals.	Students will be able to know the general characters and classification of non chordates and understanding the increasing complexity of the body.
2.		Diversity of chordates - ZOODSC- 102	Students will be able to classify and describe the diverse group of chordate animals.	Knowing the general characters and classification of chordata and their diversity.
3.	1st sem	Animal Diversity ZOODSM - 101	Students will be able to classify and describe the diverse group of non chordate and chordate animals.	Knowing the general characters and classification of non chordate and chordate animals as well as their diversity.
4.		Understanding life processes – ZOOIDC - 101	Students will be able to demonstrate a comprehensive understanding of the divderse life processes and their interconnections to sustain life.	Knowing the fundamental biological processes that occurs in living organisms.
5.		Apiculture – ZOOSEC - 101	Students will be able to apply their knowledge and skills in apiculture to establish and manage their own beekeeping operations successfully.	Expected to inculcate skills in apiary management.
6.		Cell biology – ZOODSC - 151	Students will be able to apply their knowledge of cell biology to explain	Enable to understand structure and functions of cell and cell

			cellular processes and their implications in the broader context of biological systems.	organelles.
7.	2nd sem	Practical – I (non chordates, chordates and cell biology) ZOODSC – 152	Students will have a comprehensive understanding of non chordates, chordates and cell biology enabling them to analyze and interpret the biological aspects of animals at the cellular and organizational levels.	Enable to understand the classification, diversity and characteristics of non chordates and chordates and to develop knowledge of cell biology.
8.	2nd sem	Cell biology and histology ZOODSM - 151	Students will be able to apply their knowledge of cell biology and histology to explain cellular processes and their implications in the broader context of biological systems.	Knowing the structure, functions and organizations of cells and tissues.
9.		Economic zoology ZOOIDC - 151	Students will be able to apply economic zoology concepts and techniques to address practical challenges in area such as animal husbandry.	Knowing the economic importance of animals and their applications in various human activities.
10.		Medical diagnostics ZOOSEC - 151	Students will be able to apply knowledge of medical diagnostic techniques for disease identification and managements.	Understanding the principles and techniques used in medical diagnostics.
11.		Principles of genetics ZOODSC - 201	Students will be able to apply principles of genetics to explain inheritance patterns and analyze various genetic disorders.	Understanding basic principles in heredity and inheritance .
12.		Principles of ecology ZOODSC - 202	Students will be able to explain ecological concepts and apply them to real world scenarios, contributing to sustainable practices and ecosystem conservation.	Understanding principles and the concepts in ecology and wildlife management.

13.		Physiology and biochemistry ZOODSM - 201	Students will be able to explain the physiological and biochemical basis of animal functions and demonstrate the application of this knowledge in the field of zoology .	Knowing the fundamental principles underlying animal physiology and biochemical processes.
14.		Public health and hygiene ZOOIDC - 201	Students will gain a comprehensive understanding of public health and hygiene, enabling them to contribute to disease prevention and promote healthier communities.	Knowing the essentials of public health and sanitation thereby warding off diseases and uplifting the living standards of the community.
15.		Sericulture ZOOSEC - 201	Students will be able to demonstrate competence in sericulture practices, understand the silk production cycles and effectively manage silk worm rearing and silk processing operations.	Inculcating the knowledge on cultivation and commercial production of silk worms for the sustainable production of silk fibres.
16.		Histology ZOODSC - 251	Students will be able to analyze and classify animal tissues, comprehend their functions and apply histological techniques for research and diagnostic purposes.	Knowing the microscopic structure and organization of animal tissues, organs and their functions.
17.		Fundamentals of biochemistry ZOODSC - 252	Students will be able to comprehend the fundamental principles of biochemistry and apply them to analyze the biochemical processes and functions in living organisms.	Understanding the structure and functions of bio- molecules.
18.		Practical II (genetics, ecology, histology, biochemistry) ZOODSC - 253	Students will have a comprehensive understanding of the genetics, ecological, histological and biochemical aspects of	Knowing the principles and mechanisms of genetics, ecology, histology and biochemistry in relation to living organisms.

			organisms and their interactions with the environment .	
19.		Practical (animal diversity, physiology and biochemistry, genetics, molecular biology, evolution) ZOODSM - 251	Students will be able to demonstrate practical skills in animal identification, physiological and biochemical experimentation, genetic and molecular analysis and understand the role of evolution in shaping animal diversity.	Understanding the diversity of animals through practical exploration, explore the physiological and biochemical processes that occurs in different animal species.
20.		Genetics and molecular biology ZOODSM - 252	Students will be able to demonstrate a comprehensive understanding of genetics and molecular biology including the ability to analyze genetic data.	Understanding the fundamental principles of genetics and molecular biology.
21.		Animal physiology ZOODSC - 301	Students will be able to comprehend and evaluate the diverse physiological processes, demonstrating a comprehensive understanding of animals physiology.	Understanding different physiological mechanisms in mammal.
22.		Biochemistry of metabolic processes ZOODSC - 302	Students will gain a comprehensive understanding of the biochemistry underlying metabolic processes, enabling them to analyze and explain metabolic phenomena.	Understanding biochemical processes in metabolism.
23.		Practical III (animal physiology and biochemistry of metabolic processes) ZOODSC - 303	Students will demonstrate proficiency in applying physiological and biochemical principles to explain and interpret animal metabolic processes.	Understanding the physiological mechanisms underlying metabolic processes in animals.
24.		Genetics and molecular biology ZOODSM - 301	Students will be able to demonstrate a comprehensive	Understanding the fundamental principles of genetics and

			understanding of genetics and molecular biology, including the ability to analyze genetic data.	molecular biology.
25.		Evolution and adaptation ZOODSM - 302	Students will demonstrate a comprehensive understanding of evolutionary biology, its relevance to the study of life and the ability to critically evaluate and explain evolutionary processes and patterns.	Understanding the principles of evolutionary biology and their application to the diversity and adaptation of animal species.
26.		Molecular biology ZOODSC - 351	Students will be able to demonstrate a comprehensive understanding of the molecular basis of biological processes.	Knowing the structure and functions of nucleic acids and principles of molecular biology.
27.		Evolutionary biology ZOODSC - 352	Students will demonstrate a comprehensive understanding of evolutionary biology, its relevance to the study of life and the ability to critically evaluate and explain evolutionary processes and patterns.	Enable to understand the principles of evolutionary biology and their application to the diversity and adaptation of animal species.
28.		Reproductive and developmental biology ZOODSC - 353	Students will be able to comprehend and apply the knowledge of reproductive and developmental biology to analyze and explain the diverse reproductive strategies and developmental process.	Enable to understand the mechanisms of the reproduction and development in animals.
29.		Practical IV (molecular biology, evolution, reproductive and developmental biology) ZOODSC - 354	Students will be able to apply molecular biology techniques and principles to investigate evolutionary relationships, reproductive process and developmental mechanisms in various organisms.	Enable to understand the fundamental principles and techniques of molecular biology, evolution, reproductive biology and developmental biology.
30.		Practical (cell biology, histology,	Students will be able to apply their knowledge and	Developing practical skills on fundamental

		genetics, molecular biology, evolution) ZOODSM - 351	skills to analyze and interpret biological phenomena at the cellular, histological, genetics, molecular and evolutionary levels.	concepts of cell biology, histology, genetics, molecular biology and evolution.
31.		Immunology and biotechnology ZOODSC - 401	Students will be able to demonstrate a comprehensive understanding of immunology and biotechnology and apply their knowledge to address challenge in animal health and biomedical research.	Enable to understand the principles of immunology and the fundamentals of biotechnology and its applications in various fields.
32.		Toxicology and environmental monitoring ZOODSC – 402	Students will be able to assess and mitigate the impacts of toxins on the environment and understand the importance of environmental monitoring in maintaining ecosystem health.	Enable to understand the principles of toxicology and to acquire knowledge of environmental monitoring techniques.
33.		Animal behaviour and chronobiology ZOODSC - 403	Students will be able to explain and predict animal behaviour patterns, and understand the importance of chronobiology in maintaining biological rhythms.	Enable to understand the principles and mechanisms underlying animal behaviour.
34.		Practical V (immunology, biotechnology, toxicology and environmental monitoring, animal behaviour)	Students will be able to demonstrate proficiency in practical techniques of immunology, biotechnology, toxicology, environmental monitoring and analyzing animal behaviour data.	Expected to get practical understanding on the principles of immunology, biotechnology, toxicology and environmental monitoring and animal behaviour.
35.		Evolution and adaptation ZOODSM - 401	Students will demonstrate a comprehensive understanding of evolutionary biology, its relevance to the study of life, and the ability to critically evaluate and	Enable to understand the principles of evolutionary biology and their application to the diversity and adaptation of animal species.

			explain evolutionary processes and patterns.	
36.		Research methodology / biotechniques & biostatistics ZOODSC - 451	Students will be able to effectively utilize biotechniques and biostatistics to conduct and analyze zoological research.	Enable to understand various biotechniques statistical tools used in biology.
37.		Fish and fisheries ZOODSC - 452	Students will be able to analyze and evaluate fish populations, habitats and fisheries and propose sustainable strategies for their conservation and management.	Enable to understand the principles and practices of fishery management and sustainable fishing techniques.
38.		Applied zoology ZOODSC - 453	Students will be able to apply zoological concepts and techniques to address practical challenges in areas such as wildlife conservation, animal husbandry and sustainable resources management.	Enable to know the economic importance of animals and their application in various human activities.
39.		Comparative anatomy and sense organs ZOODSC- 454	Students will gain a comprehensive understanding of comparative anatomy and sense organ of vertebrates, enabling them to interpret and evaluate the anatomical diversity and sensory adaptation in the animal kingdom.	Enable to understand comparative structure and functions of different organs across vertebrates series.
40.		Biological techniques ZOODSM - 451	Students will be able to effectively utilize biotechniques and biostatistics to conduct and analyze zoological research.	Enable to understand various biotechniques statistical tools used in biology.