

B. Sc. Botany Course outcomes under NEP program

The framework of curriculum for the Bachelor's program in Botany aims to transform the course content and pedagogy to provide a multidisciplinary, student-centric, and outcome-based, holistic education to the next generation of students.

Aside from structuring the curriculum to be more in-depth, focused, and comprehensive with significant skill-set for all exit levels; keeping in mind the job prospects; the emphasis has been to maintain academic coherence and continuum throughout the program of study and help build a strong footing in the subject, thereby ensuring a seamless transition into their careers.

Special attention is given to eliminate redundancy, discourage rote learning, and espouse a problem-solving, critical thinking, and inquisitive mindset among learners.

The curriculum embraces the philosophy that science is best learned through experiential learning, not limited to the confines of a classroom but rather through hands-on training, projects, field studies, industrial visits, and internships.

This updated syllabus, with modern technology, helps students stay informed on the leading-edge developments in plant sciences and promotes curiosity, innovation, and a passion for research, that will serve them well in their journey into scientific adventure and discovery beyond graduation.

The goal is to equip students with holistic knowledge, competencies, professional skills, and a strong positive mindset that they can leverage while navigating the current stiff challenges of the job market.



K.L.E. Society's
**BASAVAPRABHU KORE ARTS, SCIENCE AND COMMERCE
COLLEGE, CHIKODI – 591 201.**

(Accredited at 'A' with 3.26 CGPA in 3rd Cycle of A & A)

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☎ : 08338 – 272176

P.G. DEPARTMENT OF BOTANY
OBJECTIVES OF THE DEPARTMENT

The following are the well defined objectives of the Department.

- Clear, comprehensive and updated recent knowledge in the field of Botany.
- Advanced areas of Botanical science and its applied branches.
- Proficiency in practical work and experiments using of advanced biological tools and techniques
- Expertise in basic statistical analyses of data for better interpretations and problem-solving.
- Awareness to explore the intricacies of life forms at the cellular, molecular level.
- Inspiration to disseminate the concept of biodiversity conservation for sustainable development.
- Problem-solving skills in students to carry out basic and advanced research projects.
- Ability to appreciate practice and principles of ethical research and studies in the field of biological science

These objectives are set because:

1. Understand the scope and significance of the botany discipline.
2. Curiosity towards nature through the study of plant groups.
3. To consider knowledge of science as the basic unbiased of education.
4. In order to make students open-minded and curious, we try our best to enhance and develop a scientific attitude.
5. We make the students fit for the society by enabling them to work hard.
6. Make the students exposed with diverse life forms.
7. Make them develop a thorough skill to handle practical work, experiments, laboratory equipment and to interpret biological materials and data correctly.
8. To develop interest in Biological research among the students.
9. Encourage the students to do basic and modern research in related disciplines.
10. Aware them to preserve the natural resources.

OUT COMES OF LEARNING M.Sc. BOTANY

Learning Outcomes:

- LO₁: Understand the structural organization and variation in chromosomes
- LO₂: Get self-employment in the fields as: mushroom cultivation, organic manure preparation, the horticultural plant production through nursery technique, cultivation of crops in poly-house, plant tissue culture laboratories etc.
- LO₃: Understand plant structures in the context of physiological functions of plants.
- LO₄: Understanding the importance of lipids and their metabolism in plants.
- LO₅: Understand the morphological and structural organization of Algae, Fungi, and Plants.
- LO₆: Economic Botany and exploration of plants for human benefit.
- LO₇: Diversity of plants with respect to their ecological significance.
- LO₈: Developmental biology of plants.
- LO₉: Industrial application of microorganism and plants.

Master of Science (M.Sc.)

Programme Outcomes:

PO₁: **Knowledge and understanding**; of the range of plant diversity with their structure and function and environmental relationships. The evaluation of plant diversity through basic taxonomical research.

PO₂: **Rational abilities**; Assimilate the knowledge and scientific ideas based on wide reading, and research through the internet. Exchange of knowledge and comparative discussion of various topics within the subject. Construct and testing the hypothesis so that they can develop research attitude and write a report on a project.

PO₃: **Practical skills**: Students learn to carry out practical work, in the field and in the laboratory, with minimal risk.

PO₄: **The Botanist and society**: Apply reasoning informed by the contextual knowledge to assess plant diversity, its importance for society, health, safety, legal and environmental issues and the consequent responsibilities relevant to the biodiversity conservation practice.

PO₅: **Environment and sustainability**: Understand the impact of the plant diversity in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO₆. **Ethics:** Apply ethical principles and commit to environmental ethics and responsibilities and norms of the biodiversity conservation.

PO₇. **Scientific Knowledge:** Apply the knowledge of basic science, life sciences and fundamental process of plants to study and analyze any plant form.

PO₈. **Problem analysis:** Identify the taxonomic position of plants, formulate the research literature, and analyze non reported plants with substantiated conclusions using first principles and methods of nomenclature in Botany.

PO₉. **Design/development of solutions:** Design solutions from medicinal plants for health problems, disorders and disease of human beings and estimate the phytochemical content of plants which meet the specified needs to appropriate consideration for the public health

PO₁₀. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern 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

PO₁₁. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO₁₂. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Master of Science (M.Sc.) Botany

Course Outcomes:

CO₁: Critically evaluation of ideas and arguments by collection of relevant information about the plants, so as to recognize the position of plant in the natural classification and phylogenetic classification level.

CO₂: Accurate interpretation of collected information regarding the morphological and molecular characters and which is broadly used to reorganize plant classification.

CO₃: 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.

- CO₄: Students will be able to use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth. They will be able to use specific examples to explicate how descent with modification has shaped plant morphology, physiology, and life history.
- CO₅: Students will be able to explain how Plants function at the level of the gene, genome, cell, tissue, Flower development. Drawing upon this knowledge, they will be able to give specific examples of the physiological adaptations, development, reproduction and mode of life cycle followed by different forms of plants.
- CO₆: Students will be able to explain the ecological interconnections of life on earth by tracing energy and nutrient flow through the environment. They will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.



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P.G. DEPARTMENT OF COMMERCE

PROGRAM OUTCOMES 2023-24

At the end of Post Graduation students will be able to;

- PO-1:** Demonstrate knowledge and understand the management principles and apply these to one's own work.
- PO-2:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO-3:** Communicate effectively in person and through electronic media and elicit views of others, mediate disagreements and help reach conclusions in group settings.
- PO-4:** Identify & formulate research literature and analyze complex business problems reaching substantiated conclusions using the knowledge of various aspects of business.
- PO-5:** Understand the impact of various business activities in societal and environmental contexts, and demonstrate the knowledge and need for sustainable development.
- PO-6:** Acquire the ability to engage in independent and lifelong learning in the broadest context of socio-technological changes.
- PO-7:** Apply ethical principles and commit to the professional ethics and responsibilities.


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DEPARTMENT OF ENGLISH

COURSE OUTCOMES-2023-24

❖ New Syllabus Implemented NEP As On 2021-22

At the end of the each Course (English) students will be able to:

Course-I:

Course Code: ENGDSCA1

Title: INTRODUCTION TO LITERATURE

CO₁. Designed to help learners understand the objectives of studying BA (Honors) in English, that is, to analyze, appreciate, understand and critically engage with literary texts written in English, approaching them from various perspectives and with a clear understanding of locations.

CO₂. Correctly define commonly used literary terms and concepts and use those terms and concepts to discuss and analyze works of literature.

CO₃. Identify structural elements of works of poetry, fiction, and drama, and analyze how those elements help create specific meanings and effects.

CO₄. Compare works of literature in terms of theme, structure, and use of literary devices.

CO₅. Gain an understanding of the concepts of literature.

CO₆. Appreciate literary form and structure in shaping a text's meaning.

Course Code: ENGDSKA2

Title: Indian Writing in English – I

CO₁. Designed to help learners understand the objectives of studying BA (Honors) in English, that is, to analyze, appreciate, understand and critically engage with literary texts written in English, approaching them from various perspectives and with a clear understanding of locations.

CO₂. Trace and understand the development of Indian English Literature

CO₃. Compare works of literature in terms of theme, structure, and use of literary devices

CO₄. Appreciate literary form and structure in shaping a text's meaning

Course-II:

Course Code: ENGDSKA3 **Title:** Introduction to Phonetics and Linguistics

CO₁. Acquire the knowledge of Phonetics and its concepts

CO₂. Gain an understanding of Linguistics and its concepts

Course Code: ENGDSKA4 **Title:** Indian Writing in English – II

CO₁. Trace and understand the development of Indian English Literature

CO₂. Compare works of literature in terms of theme, structure, and use of literary devices

CO₃. Develop critical thinking on the works and authors.

Course-III:

The III semester BA (English) program has two DSC courses (Course 5 & 6)

Course Code: COURSE – 5 **Title -** British Literature from Beginning to 1800

CO₁. Learn the important trends and movements in the British literature
of the prescribed period

CO₂ Identify and understand the canonical literature of England

CO₃ Distinguish the poets, playwrights and novelists of different period

CO₄. Appreciate some representative texts of the prescribed period.

Course-IV

Course Code: COURSE – 6 Title - INDIAN LITERATURE IN TRANSLATION

- CO₁. Understand the meaning and methods of translation
- CO₂. Comprehend the scope of translation in the modern age
- CO₃. Have the knowledge of Indian writers and literature in general
- CO₄. Appreciate the translated text

COURSE -V

Course Code: COURSE – 7 Title - BRITISH LITERATURE (19th & 20th Century) (Part 2)

- CO₁. Learn the important trends and movements in the British literature of prescribed period
- CO₂. Identify and understand canonical literature of England
- CO₃. Distinguish the poets, playwrights and novelists of different periods
- CO₄. Appreciate some representative texts of the prescribed period

COURSE –VI

Course Code: COURSE – 8 Title : GENDER STUDIES (PART 1)

- CO₁. Understand the concept of gender studies
- CO₂. Learn the basics of patriarchy, sex and gender and gynocentrism
- CO₃. Understand the significance of Gender as a discourse
- CO₄. Appreciate literature by women writers.

Semester V: The V & VI semester BA (English) program has THREE DSC courses and VI sem includes Internship or Project Work.

COURSE –VII

Semester V:

Course Code: COURSE – 9 Title : LITERARY CRITICISM

- CO₁: Understands the merits and demerits of literary works.
- CO₂: Display a working knowledge of the varied interpretations and analyses.
- CO₃: Describe distinct literary characteristics of works of art.
- CO₄: Write analytically about literary works.

Course Code: COURSE – 10 Title : LIFE NARRATIVES.

- CO₁ Recognize formal elements—structures, narrative perspectives, style, etc.—in life narratives and explore how they may represent issues of contemporary interest.
- CO₂ Analyze the theoretical, aesthetic, and creative aspects of life writing evidenced by the particular structures, styles, and thematic elements in each text.
- CO₃. Apply critical thinking and reading skills in the interpretation of diverse life narratives, highlighting their local and global significance, and identifying connections among different traditions.
- CO₄ Reflect on their own learning processes and engage with their own life experience when composing their own creative and critical work.

Course Code: COURSE – 11 Title – AMERICAN LITERATURE

- CO₁ This paper introduces the students to the history of American literature.
- CO₂ American Poetry and Prose is an excellent body of literary writings from America that can shape a man's beliefs and convictions in democracy and new nationhood.
- CO₃ This paper aims at introducing American literature in general and American Fiction in particular.
- CO₄ American Fiction is rich in imparting literary sense and sensibilities from American literature

COURSE –VIII

Semester VI :

Course Code: COURSE – 12 Title –POSTCOLONIAL LITERATURE

- CO₁ Understand the concept of Colonialism and its impact and Postcolonialism and its various dimensions.
- CO₂. To understand the overview of the historical experience of colonization and its impacts on the colonized peoples across the globe, through the medium of literary writings
- CO₃ Distinguish between pre-colonialism, colonialism and postcolonialism in theory and practice.
- CO₄ To understand the concepts and definitions related to Postcolonial literature.

Semester VI:

Course Code: Course–A13 Title – INTRODUCTION TO THE HISTORY OF THE ENGLISH LANGUAGE.

- CO₁ The students are acquainted with a historical perspective of the English Language in general and to create awareness about the evolution of human language.
- CO₂ To develop critical thinking on a variety of topics like multiculturalism, power relations in evolution of languages
- CO₃. To understand the dynamics of language change and principles of political correctness in language policy.
- CO₄ To understand the language variety and the use of English language in all the spheres.

Semester VI:

Course Code: Course-A 14 Title – WOMEN'S WRITING

- CO₁ To understand the genre of women's writing.
- CO₂ To Evaluate the contribution of women to the body of knowledge and literature.
- CO₃ Appraise women's perspectives through reading of texts.
- CO₄ To Differentiate women's writings from other genres in literature.

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PROGRAMME OUTCOMES

A Student of Bachelor of Arts (BA) at the time of graduation will be able to:

- **PO1:** Apply the knowledge gained during the six semesters in developing the various models of life situations for the betterment of society.
- **PO2:** Understand the people from various backgrounds in the process of upholding the unity in diversity.
- **PO3:** Build socio-economic bonding in preserving the rich heritage and culture of our country.
- **PO4:** Honor the integrity of the nation and dignity of our senior citizens, women and children of the respective locality. This will boost our concept of think globally and act locally.
- **PO5:** Preserve the existing national resources and contribute to the growth and development of dependent sectors.
- **PO6:** Acquire the capacity to defend the national interests through socio-economic surveys, life skills, and gender equity promotions.
- **PO7:** Get eligibility to appear for various competitive examinations conducted by different agencies of the Government.





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DEPARTMENT OF MATHEMATICS

PROGRAMME OUTCOMES 2023-24

After completion of the programme, the students will use their mathematical skills to pursue:

- PO₁ A career that uses mathematics in business, industry or government.
- PO₂ Teaching mathematics as the secondary level.
- PO₃ Create and verify their own ideas rather than simply using provided formulas, and theorems in multiple courses through the mathematics curriculum.
- PO₄ Prove theorems using the language of mathematics in theoretical and present both orally in writing.
- PO₅ Construct clear and well supported arguments to explain mathematical problems, topics and ideas in writing.
- PO₆ Give clear and well organized presentations about mathematical topics that communicate mathematical arguments.
- PO₇ Apply mathematical or computational technique to areas outside of mathematics.
- PO₈ Extract mathematically relevant information from data, test hypothesis and assumptions and formulate logical conclusions using mathematical analysis.
- PO₉ Students will have experience working with broad range of mathematical ideas and complementary points of view in the topics (continuous and discrete), techniques (algebraic and geometric) and approaches (theoretical and applied) to mathematics.
- PO₁₀ Develop a mastery of mathematics at a level that will allow them to be successful in a field requiring mathematical reasoning.


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DEPARTMENT OF MATHEMATICS

COURSE OUTCOMES

2023-24

Course I: Algebra-I and Calculus-I.

This course will enable the students to

CO₁: Learn to solve system of linear equations.

CO₂: Solve the system of homogeneous and non-homogeneous linear of m equations in n variables by using concept of rank of matrix, finding eigen values and eigen vectors.

CO₃: Sketch curves in Cartesian, polar and pedal equations.

CO₄: Students will be familiar with the techniques of integration and differentiation of function with real variables.

CO₅: To understand the algebra of limits and continuity.

CO₆: Identify and apply the intermediate value theorems and L' Hospital rule.

Course II: Practical's on Algebra-I and Calculus-I.

This course will enable the students to

CO₁: Learn Free and Open Source Software (FOSS) tools for computer programming Solve problem on algebra and calculus theory studied in MATDSCT 1.1 by using FOSS software.

CO₂: Acquire knowledge of applications of algebra and calculus through FOSS Practical/Lab Work to be performed in Computer Lab (FOSS)

Course III: Algebra-II and Calculus-II.

This course will enable the students to

CO₁: Recognize the mathematical objects called Groups.

CO₂: Link the fundamental concepts of groups and symmetries of geometrical objects..

CO₃: Explain the significance of the notions of Co-sets, normal sub and Factor groups.

CO₄: Understand the concept of differentiation and fundamental theorems in differentiation and various rules.

CO₅: Find the extreme values of functions of two variables.

Course IV: Practical's on Algebra-II and Calculus-II.

This course will enable the students to

CO₁: Learn Free and Open Source Software (FOSS) tools for computer programming

CO₂: Solve problem on algebra and calculus by using FOSS software's.

CO₃: Acquire knowledge of applications of algebra and calculus through FOSS Practical/Lab Work to be performed in Computer Lab.

Course V: Ordinary Differential Equations and Real Analysis-I.

This course will enable the students to

CO₁: Solve first-order non-linear differential equations and linear differential equations.

CO₂: To model problems in nature using Ordinary Differential Equations.

CO₃: Formulate differential equations for various mathematical models.

CO₄: Apply these techniques to solve and analyze various mathematical models.

CO₅: Understand the fundamental properties of the real numbers that lead to define sequence and series, the formal development of real analysis.

CO₆: Learn the concept of Convergence and Divergence of a Sequence.

CO₇: Able to handle and understand limits and their use in sequence, series, differentiation, and integration.

CO₈: Apply the ratio, root, alternating series, and limit comparison tests for convergence and absolute convergence of an infinite series.

Course VI: Practical's on Ordinary Differential Equations and Real Analysis-I.

This course will enable the students to

CO₁: Free and Open Source software (FOSS) tools or computer programming.

CO₂: Solving exact differential equations.

CO₃: Plotting orthogonal trajectories..

CO₄: Finding complementary function and particular integral of linear and homogeneous differential equations.

CO₅: Acquire knowledge of applications of real analysis and differential equations.

CO₆: Verification of convergence/divergence of different types of series.

Course VII: Partial Differential Equations and Integral Transforms.

This course will enable the students to

CO₁: Solve the Partial Differential Equations of the first order and second order.

CO₂: Formulate, classify and transform partial differential equations into canonical form.

CO₃: Solve linear and non-linear partial differential equations using various methods and apply these methods to solving some physical problems.

CO₄: Able to take more courses on wave equation, heat equation, and Laplace equation.

CO₅: Solve PDE by Laplace Transforms and Fourier Transforms.

Course VIII: Practical's on Partial Differential Equations and Integral Transforms.

This course will enable the students to

CO₁: Free and Open Source software (FOSS) tools or computer programming.

CO₂: Solve problems on Partial Differential Equations and Integral Forms.

CO₃: To find Laplace transform of various functions.

CO₄: To find the Fourier Transform of periodic functions.

CO₅: To solve differential equations by using Integral transforms.

Course IX: Real Analysis II and Complex Analysis.

This course will enable the students to

CO₁: Carry out certain computations such as computing upper and lower Riemann sums as well integrals.

CO₂: Describe various criteria for Integrability of functions..

CO₃: Exhibit certain properties of mathematical objects such as integrable functions, analytic functions, harmonic functions and soon .

CO₄: Prove some statements related to Riemann integration as well as incomplex analysis.

CO₅: Carry out the existing algorithms to construct mathematical structures such as analytic functions..

CO₆: Applies the gained knowledge to solve various other problems.

Course X: Practical's on Real Analysis II and Complex Analysis.

This course will enable the students to

CO₁: Learn Free and Open-Source Software (FOSS) tools for computer programming.

CO₂: Solve problems on Real Analysis and Complex Analysis studied in theory by using FOSS software's.

CO₃: Acquire knowledge of applications of Real Analysis and Complex Analysis through FOSS.

Course XI: Vector Calculus and Analytical Geometry.

This course will enable the students to

CO₁: Get introduced to the fundamentals of vector differential and integral calculus.

CO₂: Get familiar with the various differential operators and their properties..

CO₃: Get acquainted with the various techniques of vector integration.

CO₄: Learn the applications of vector calculus.

CO₅: Recollect the fundamentals of Analytical Geometry in 3D.

CO₆: Interpret the geometrical aspects of planes and lines in 3D.

Course XII: Practical's on Vector Calculus and Analytical Geometry .

This course will enable the students to

CO₁: Learn Free and Open-Source Software (FOSS) tools for computer programming.

CO₂: Solve problem on Analytical Geometry and Vector Calculus studied in theory by using FOSS software's.

Course XIII: Linear Algebra.

This course will enable the students to

CO₁: Build a basic understanding in few areas of linear algebra such as vectors spaces, linear transformations..

CO₂: Understand the concepts of Vector spaces, subspaces, bases dimension and their properties.

CO₃: Concepts of Eigen values and Eigen vectors, linear transformations etc.

CO₄: Prove various statements in the context of vectors spaces.

Course XIV: Practical's on Linear Algebra.

This course will enable the students to

- CO₁: Free and Open Source software (FOSS) tools or computer programming.
- CO₂: Solve problem on Linear Algebra studied in theory by using FOSS software's.
- CO₃: Acquire knowledge of applications of Linear Algebra through FOSS.

Course XV: Numerical Analysis.

This course will enable the students to

- CO₁: Get equipped with certain numerical techniques for various computations such as finding roots, finding the integrals and derivatives, and finding solutions to differential equations.
- CO₂: Describe various operators arising in numerical analysis such as difference operators, shift operators and so on.
- CO₃: Articulate the rationale behind various techniques of numerical analysis such as in finding roots, integrals and derivatives.
- CO₄: Reproduce the existing algorithms for various tasks as mentioned previously in numerical analysis.
- CO₅: Apply the rules of calculus and other areas of mathematics in justifying the techniques of numerical analysis.
- CO₆: Solve problems using suitable numerical techniques.
- CO₇: Appreciate the profound applicability of techniques of numerical analysis in solving real life problems and also appreciate the way the techniques are modified to improve the accuracy.

Course XVI: Practical's on Numerical Analysis.

This course will enable the students to

- CO₁: Free and Open Source software (FOSS) tools or computer programming.
- CO₂: Solve problem on numerical Analysis studied in theory by using FOSS software's.
- CO₃: Acquire knowledge of applications of numerical Analysis through FOSS.


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Program Outcomes:

By the end of the program the students will be able to:

(Refer to literature on outcome based education (OBE) for details on Program Outcomes)

PO1: Skill development for the proper description using botanical terms, identification, naming and classification of life forms especially plants and microbes.

PO2: Acquisition of knowledge on structure, life cycle and life processes that exist among plant and microbial diversity through certain model organism studies.

PO3: Understanding of various interactions that exist among plants and microbes; to develop the curiosity on the dynamicity of nature.

PO4: Understanding of the major elements of variation that exist in the living world through comparative morphological and anatomical study.

PO5: Ability to explain the diversity and evolution based on the empirical evidences in morphology, anatomy, embryology, physiology, biochemistry, molecular biology and life history.

PO6: Skill development for the collection, preservation and recording of information after observation and analysis- from simple illustration to molecular database development.

PO7: Making aware of the scientific and technological advancements- Information and Communication, Biotechnology and Molecular Biology for further learning and research in all branches of Botany.

PO8: Internalization of the concept of conservation and evolution through the channel of spirit of inquiry.

PO 9: To enable the graduates to prepare for national as well as international level competitive examinations like UGC-CSIR, UPSC, KPSC etc.

PO10: To enable the students for practicing the best teaching pedagogy as a biology teacher including the latest digital modules.

PO 11: The graduates should be knowledgeable and competent enough to appropriately deliver on aspects of global importance like climate change, SDGs, green technologies etc at the right opportunity.

PO 12: The graduate should be able to demonstrate sufficient proficiency in the hands-on experimental techniques for their area of specialization within biology during research and in the professional career.