

# CHANDIDAS MAHAVIDYALAYA

*A Govt. Aided Degree College Affiliated to the University of Burdwan.*

UGC Accredited under section 2(f) & 12(B) [1979] \* NAAC Accredited in 2016 (2nd Cycle)

KHUJUTIPARA □ Dist.- BIRBHUM □ WEST BENGAL □ INDIA-731215

www.chandidasmahavidyalaya.ac.in

☎ - 9474614644



cmahavidyalaya1972@gmail.com

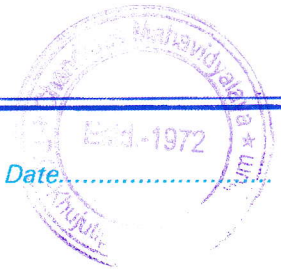
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Estd. - 1972

Ref. No.....



Date.....




## DEPARTMENT OF BOTANY


### Program Specific Outcomes: B. Sc Botany (General) Programme

As per the syllabus of B. Sc Botany (General) Programme, the aims to train the students in all the areas of plant sciences with a unique combination of all papers including SEC with significant interdisciplinary components as per CBCS.

#### Program Outcomes (POs):

- ❖ Students should acquire the skills to deal with various forms of plants, their preservation techniques and future commercialization.
- ❖ To acquire knowledge about different Flora.
- ❖ The graduates should have developed positive attitudes and ethical values towards environment.
- ❖ To developed skills on mushroom cultivation, biofertilizer production, horticulture, floriculture etc.
- ❖ After completing a B.Sc. degree in Botany, the students besides opting for higher education can make their career as: i) Plant explorer, ii) Conservationist, iii) Ecologist, iv) Environment consultant, v) Farming consultant, vi) Horticulturist, vii) Plant biochemist, viii) Nursery manager, ix) Genetics, molecular biologist, taxonomist, plant pathologist, tissue culture etc.

  
Teacher - in - Charge  
Chandidas Mahavidyalaya  
Khujutipara, Birbhum

  
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### Course Outcome: B.Sc. Botany (General) Programme

CORE COURSES (CC)	
Course Name	Course Outcome
<b>Semester- I</b> <b>CC IA: DIVERSITY</b> (Microbes, Algae, Fungi and Archegoniate)	This course includes a theory as well as a practical paper. On completion of the course, students are able to: i) Understand the diversity among Microbes, Algae, Fungi and Archegoniate. ii) Understand the similarities and differences among different plant group by classification. iii) Understand the Life cycle, Ecology and Economic importance of Bacteria, Algae, Fungi, Bryophytes, Bryophytes, Pteridophytes and Gymnosperm.
<b>Semester- II</b> <b>CC IB: PLANT ECOLOGY AND TAXONOMY</b>	This course includes a theory as well as a practical paper. On completion of the course, students are able to: i) Understand basic concepts of general ecology and phytogeography. ii) Learn about the basic principles of ecology and ecosystem. iii) Know about the importance of ecology & Ecosystem and its conservations. iv) Understand about modern approaches in taxonomic studies. v) Comprehend the concepts of plant taxonomy and classification of Angiosperms.
<b>Semester- III</b> <b>CC IC: PLANT ANATOMY AND EMBRYOLOGY</b>	This course includes a theory as well as a practical paper. On completion of the course, the students: i) Will learn about the basic concepts and skills in the field of plant anatomy. ii) Understand the various components of stem and woods during its secondary growth. iii) Be enlightened about the mechanism of pollination and basic structure of the embryo.
<b>Semester- IV</b> <b>CC ID: PLANT PHYSIOLOGY AND METABOLISM</b>	This course includes a theory as well as a practical paper. On completion of the course, students: i) Will understand and appreciate the plant world we depend on. ii) Know about the basic principles of plant function, metabolism, secondary products, cell physiology and principles of growth & development.

  
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## DISCIPLINE SPECIFIC ELECTIVE COURSES (DSE)

Course Name	Course Outcome
<b>Semester- V</b> <b>DSE 1A: ECONOMIC BOTANY AND BIOTECHNOLOGY</b>	This course includes a theory as well as a practical paper. On completion of the course, students: i) Will learn about the basic concepts on origin of cultivated plants. ii) Will acquire knowledge about selected economic important plants and its uses. iii) Have a clear knowledge of plant tissue culture techniques. iv) Be fully aware of the basics and applications of plant biotechnology. v) Have a basic understanding of the plant genetic transformation methods.
<b>Semester- VI</b> <b>DSE 1B: RESEARCH METHODOLOGY</b>	This course includes a theory as well as a practical paper. On completion of the course, students: i) Will be enabled to know the state of art of research in Botany. ii) To plan and carry out short term research projects. iii) Know how to present the collected data as thesis, publication and seminar presentation and know the value of research.

## SKILL ENHANCEMENT COURSES (SEC)

Course Name	Course Outcome
<b>SEC1:</b> <b>HEBAL TECHNOLOGY</b>	This course only includes a theory paper. After completion of the course the students will be able to: i) Understand the Herbal Technology as well as principles of cultivation of Herbal products. ii) List the major herbs, their botanical names and chemical constituents. iii) Develop the skills for cultivation of plants and their value-added processing, storage and quality control. iv) Acquire the knowledge about how to evaluate the drug adulteration through the biological testing.
<b>SEC2:</b> <b>FLORICULTURE</b>	This course only includes a theory paper. After completion of the course the students will be able to: i) Analyse various nursery management practices with routine garden operation. ii) Acquire knowledge about various ornamental Plants and their cultivation. iii) Find out ways to inform about landscaping of public and commercial places for floriculture. iv) Diagnoses various diseases and uses Pests for Ornamental Plants.

  
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