

DOSR in Botany

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Programme Out come:

Programme has a total 20 papers: Hard core paper – 9, Soft core paper 8, Open Elective paper – 2 and Project work in place a paper -1.

Open Electives are : 1. Medicinal plants and Utilization> Skill enhancement courses
2. Biofertilizers and Biopesticides Skill enhancement courses

Soft core papers are: 1. Ecology & Environmental Biology General Electives
2. Evolution and Phytogeography General Electives
3. Microbial Technology Value added courses
4. Plant Breeding & Propagation General Electives
5. Methods in Plant Sciences General Electives
6. Plant tissue culture and Genetic Engineering Value added course
7. Medicinal Plants & Phytochemistry Ability enhancement courses
8. Biodiversity Conservation General Electives

Hard Core papers about 9 based on morphology, Physiology, Metabolism, Genetics, Molecular Biology.

Programme Out Come, Programme Special Outcome and Course Out come.

Core Competency: The existing syllabus includes about 2 skill enhancement courses, 1 ability enhancement course and 2 value added course. As a result the outcome of program learning among the students would be to develop the **core competency** in understanding identifying major groups, Genetic diversity, evolution at work, Metabolisms, adaptation of plants and networking among plants.

Analytical ability : Students would learn the ability to analyse the things in scientific manner to arrive at a conclusion or to hypothesize possible theory. Papers such as Cell Biology, Genetics and Biostatistics. Similarly Bioinformatics giving sequences of proteins/ genes would help in understanding the phylogeny.

Critical thinking and Problem solving ability: There are paper which needs critical thinking (Microbial Tehnology) and problem solving ability(Methods in plants sciences, Genetics).

Ethical issues: There are several ethical issues attached to some subjects like Tissue Culture and Genetic Engineering. Students will learn issue in the experimentation and consequences. They will also learn about the Biopiracy and Bioprospecting, and Traditional Knowledge.

Team: During the study the students undergo field trips and study tour, during the trip students learn live together and share their happiness and also grief. They learn to live in team and solve the problems.

Research Skill: Many papers are research based : Methods in Plant sciences, Microbial Technology, Tissue culture and Genetic Engineering, Biodiversity Conservation, Ecology and Environmental biology. This will make them to develop interest in these subject and to carve out their future.

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Course Outcome

Papers	CC	AA	CT	EI	T	RS	CS
CPT 1.1	✓	✓				✓	✓
CPT 1.2	✓				✓		✓
CPT 1.3	✓				✓		✓
SPT 1.4.1	✓				✓	✓	✓
SPT 1.4.2	✓			✓	✓		✓
CPT 2.1		✓		✓	✓	✓	✓
CPT 2.2	✓	✓	✓	✓	✓	✓	✓
SPT 2.3.1		✓	✓	✓	✓	✓	✓
SPT 2.3.2	✓	✓	✓	✓	✓	✓	✓
OET 2.4	✓			✓	✓	✓	✓
CPT 3.1	✓	✓				✓	✓
CPT 3.2	✓	✓				✓	✓
SPT 3.3.1			✓		✓	✓	✓
SPT 3.3.2	✓			✓		✓	✓
OET 3.4	✓			✓		✓	✓
CPT 4.1		✓				✓	✓
CPT 4.2		✓	✓	✓		✓	✓
SPT 4.3.1	✓			✓		✓	✓
SPT 4.3.2	✓				✓	✓	✓
PROJECT					✓	✓	✓


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