Department of Botany KURUKSHETRA UNIVERSITY, KURUKSHETRA Information about Academic Departments for Web-Portal (Academic Departments)

Departmental Profile

Located in Kurukshetra, the land of the **Gita** & **Mahabharat**, Kurukshetra University is a premier institution of learning in India. Founded in 1956, The University started as a unitary teaching & residential University to promote Indology. However, within five years of its inception, the institution developed into a multi-faculty University. And, in this series, the department of Botany was established in the year 1967 and housed in the building of Art's Faculty. Later, it was shifted to the Mathematics Building of the University. However, in 1985, a separate building was raised for the Department, where it is presently situated.

The Department was nourished & developed under the able leaderships of Prof R S Mehrotra, Prof M L H Kaul, Prof L C Lamba, Prof S Bhambie & Dr R P Narwal. Presently, the department has *five* Professors, one Reader and two Senior Lecturers. About 600 research papers/ scientific articles have been published so far in the journals of National and International repute. The department has produced about >90 Ph.D. students so far. Several research projects sanctioned by various funding agencies were successfully completed in the department.

Major areas of Research in the Department include Physiology and Biochemistry, Genetics, Microbial Biochemistry, Experimental Botany, Plant and Microbial Ecology, Taxonomy, Applied Phycology, Plant Tissue Culture, Mycology and Plant Pathology. Many faculty members visited abroad for advanced training in their respective areas and for participation in international conferences/congresses. Besides they have held membership of various national and international association and societies. The department maintains a library, a small Botanical Garden, a Glass House, an Environment Controlled Ploy Carbonate House and a Medicinal Herb Garden. At present there are several full-time research scholars working in different areas of Botany. They are getting scholarships from the university and other agencies. Many of our students passed NET/SET/GATE examinations successfully and have completed research from this department. A large number of our students are occupying teaching and other positions in the country (For detail, please refer to the List of Alumni). The department has organized Refresher Course in Botany four times on a national level. The last Refresher Course was held in December 2001. Several eminent Professors & Scientists from various other Universities/ Institutions have been regularly visiting this department and have delivered lectures useful to our PG level students as well as sharing research knowledge with the Research Scholars & faculty members of the Dept. The department has very healthy academic atmosphere and a congenial teacher-taught relationship.

Chairperson

Prof. Ashok Aggarwal

:

:

2

Contact Information

01744-238207 (R); 098962-48039 (Mobile); <u>aggarwal_vibha@rediffmail.com</u>

Faculty Information

Sr. No./Name & Designation	Joining Date	Specialization	Qualifications	Contact Information
Chairperson:	44	Mycology,	M.Sc., M. Phil.,	01744-238207 (R);
Ashok Aggarwal	13 th July	Microbiology,	Ph.D.	098962-48039 (Mobile);
	1987	Plant Pathology		aggarwal_vibha@rediffmail.com
Professors:				
1.D. Mukherjee	Jan.	Plant Physiology	M.Sc., Ph.D.	01744-238893 (R);
	1972	& Biochemistry		094160-38893 (Mobile);
		Ecology &		dibumukherjee@gmail.com
2. S.R. Gupta	E.L	Environmental	M.Sc., Ph.D.	
	Feb.	Sciences		01744-239908 (R);
3. N.K. Matta	1977	Genetics &		sgupta2002@yahoo.com
3. N.K. Malla	Feb.	Molecular Biology	M.Sc., Ph. D.	01744 020041 (D):
	1985			01744-239241 (R); nkmatta@rediffmail.com
Readers:	1905	Bryology and	M.Sc., M. Phil.,	098687-60528 (Mobile);
1. B.D.	13thJuly	Plant Tissue	Ph.D.	bhoodev vashistha@yahoo.co.in
Vashistha	1987	Culture	1 11.0.	briddev vabriotriale yarroo.co.m
Lecturers:				
1.C B Singh	15 th July	Applied	M.Sc., Ph.D.	01744-238666 (R);
Ŭ	1998	Phycology,		094160-39666 (Mobile)
		Cyanobacterial		cbsinghbhu@gmail.com;
		Biotechnology		cbsinghbhu@sancharnet.in
	41-	and Plant Tissue		
2.Narender	15 th July	Culture	M.Sc., Ph.D.	
Singh	1998	Stress		01744-229592 (R);
		Physiology &		094164-12622 (Mobile);
		Plant Tissue		nssheorankuk@yahoo.com
		Culture		

Courses Offered: Types of Courses (Post-graduate & Others) and Systems of Examination

Profile of different courses offered:

Sr. No.	Degree Type	Course Duration	No. of sanctioned seats	Scheme of Exam. (Annual/Semester)
1.	M.Sc.	2 Years	25+10	Annual
2.	M. Phil.	-	15	-
3.	Ph.D.	-	Teacher-wise (as per	-
			UGC rules)	

Details of different Courses:

Course Name	:	M.Sc.,
Course Type	:	Postgraduate
Exam Scheme	:	Annual

Semester-wise/ Year-wise details:

Sr N	Paper Name	Paper Code	Paper Type	Paper Remar	Max. Marks	Interna I Marks	External Marks
0	M.Sc. Previous:			ks			
1.	Biology & Diversity of Lower Cryptogams& General Microbiology	Paper-I	Compulsory		80		-
2.	Biology & Diversity of Higher Cryptogams & Gymnosperms	Paper-II	Compulsory		80		-
3.	Cytology, Genetics & Molecular Biology	Paper-III	Compulsory		80		-
4.	Ecology & Resource Conservation	Paper-IV	Compulsory		80		-
5.	Biology & Diversity of Lower Cryptogams& General Microbiology and Biology & Diversity of Higher Cryptogams & Gymnosperms	Practical-I	Compulsory		80		-
6.	Cytology, Genetics & Molecular Biology and Ecology & Resource Conservation	Practical-II	Compulsory		80		-
7.	Seminar				20	20	NA
(B) 8.	M.Sc. Final: Plant Physiology &	Paper-V	Compulsory		80		
0.	Biochemistry		Compaisory		00		
9.	Biology & Diversity of Angiosperms	Paper-VI	Compulsory		80		
10	Biotechnology	Paper-VII	Compulsory		80		
11	 Elective Papers: Advanced Phycology Applied Mycology & Plant Pathology Plant Propagation: Concepts & Applications Advanced Plant Physiology Restoration Ecology & Conservation Biology 	Paper-VIII	Optional		80		
14	Biology & Diversity of Angiosperms and Biotechnology		Compulsory		40		-
15	Plant Physiology & Biochemistry		Compulsory		40		
15	Seminar		Compulsory		20	20	NA

Course Name: M.Phil.

Course Type: Post-Graduate

Exam Scheme : Annual

Sr N	Paper Name	Paper Code	Paper Type	Paper Remar	Max. Marks	Interna I	External Marks
0				ks		Marks	
(A)	M.Phil.						
1.	Recent Advances in Plant Sciences	Paper-I	Theory		100		-
2.	Recent Techniques	Paper-II	Theory		100		-
3.	Seminar-I	•			40	40	-
4.	Seminar-II				40	40	-
5.	Internal Assesment				20	20	-
6.	Dissertation				Grade- A,B,C,D		-

Facilities:

Library	:	Yes
Teaching Labs	:	Yes : Two
-		: M.Sc. (P): One
		: M.Sc. (F): One
Other Facilities	:	1. Botanical Garden.
		2. Herbarium.
		3. Culture Rooms.
		4. Experimental plots for growing plots.
		5 Poly House
Placement Cell	:	Not available in the Department
Placement inform	nation	for the year 2005-2006:
		Lecture of Botany, Arya College, Panipat
•		
2. Nidhan Singh	: as	Lecture of Botany, I.B. College, Panipat
0 Minin Dualiash		Lasture of Determy & Misrobiology, Colori Institute of L

3. Vipin Prakash : as Lecture of Botany & Microbiology, Solani Institute of Life Sciences & Management, Solan, HP
 4. Devil Lal : as TGT, Delhi Govt., Delhi.

Information on Seminar and Conferences:

Seminar/ conferences organized by the Department (2006-2007) : Nil

Information on Research Activities (Projects):

List of Research Projects currently in operation with details on the title, duration, funding agency and the total grant:

Name of the Teacher	Title of the Project	Durat ion	Funding Agency	Amount (in Lakhs)
Prof. D.	Regulation of Chlorophyll and	2004		
Mukherjee	Carotenoids degradation & influence	to	UGC	9.52

	of amino acids during leaf	2007		
	senescence.			
Prof. N.K.	Rice Seed Protein Fraction under	2006	DAE	11.21
Matta	varying genetic and Environmental	to		
	Conditions	2009		

Information on Achievements:

Sr. No.	Achievement Area	Achievement Details	
1.	1. Raising & maintaining Medicinal Garden	Ongoing	

(CHAIRMAN)