Departmental Profile (Botany)

Department	BOTANY							
Department	SETH KESARIMAL PORWAL COLLEGE OF ARTS AND COMMERCE AND							
Profile	SCIENCE, KAMPTEE							
	VISION OF THE COLLEGE							
	 Education for all. Education as a means of eliminating poverty. 							
	Education as a means of social inclusiveness and communal harmony							
	MISSION OF THE COLLEGE							
	 To provide advanced quality education and knowledge to all especially to the deprived sections of society. To exter to the all round development of the students. 							
	• To catel to the an-round development of the students.							
	• Including academic, sports and cultural development.							
	• To develop a sense of community feeling among the students.							
	• To develop social awareness and social commitment in the students.							
	• To develop leadership and proactive qualities among the students so as to be competitive							
	and successful in career building.							
	Departmental Goals/Amis/Objective							
	DEPARTMENT OF BOTANY							
	VISION							
	To teach students with scientific temperament, and environmental awareness and to prepare them to							
	face challenges in life.							
	MISSION/GOALS							
	To impart quality education in the field of plant science and to sensitize students to the need for							
	conserving natural resources. The study of Botany is vital as plants are a fundamental part of life on earth. The curriculum for t B.Sc. Botany program has been designed with the aim of encouraging broad instructional goals a							
	supporting the growing demands and challenging trends in the educational scenario. It targets							
	providing an environment that encourages, promotes and stimulates the student's intellectual.							
	professional and personal development. The curriculum caters to the all-round development of the							
	student, preparing globally ready individuals for the fast pacing world. A three-year bachelor's degree							
	program in Botany provides the foundation for prospective botanists to pursue a graduate-level							
	education or find an entry-level career							
	OBJECTIVES							
	The course introduces students to the importance of plants as an integral part of existence on the planet							
	It is imperative to internalize fully the fact that human existence depends on plants and hence the							
	necessity to conserve nature is the need of the hour. A few activities are conducted at the end of each							
	semester which is relevant to the topics covered. Algal and lichen collection, mushroom cultivation							
	visite to tissue culture leb plant collection trips excursions, project works, group discussions							
	visits to insue culture lab, plant conection imps, excutsions, project works, group discussions,							
	seminars, assignments, and mannenance of prant diversity on conege campuses are a few of the							
	activities. These activities enable the students to study the subject outside the classroom environment.							
	Introduction							
	SUBJECT INTRODUCTION							
	Botany is a subject moreover a tradition followed by almost all human beings knowingly or							
	unknowingly. As a department closely related to nature, we give more importance to nature, its							
	greenery as well as environmental health.							
	The study of Botany, dealing with plant structure, function, classification and evolution, has							
	inspired many great young minds. Plants are unique as solar energy converts and provide of							
	energy for all heterotrophic organisms. It is fascinating to study the broad spectrum of							
	reproductive processes in algae fungi lichen plant pathology bryonbytes gymnosperms and							
	flowering plants							
	nowering plants.							

A student of Botany has	been learning these aspects together with taxonomy, anatomy,							
ecology, cytology, genetics, cytogenetics, molecular biology and plant biotechnology. A new introduction of skilled-based courses like Biofertilizers, mushroom cultivation, soil								
science, floriculture, horticulture, Mineral nutrition with hydroponics, Pharmacognosy etc.								
Brief History								
ABOUT THE DEPARTMENT Department of Botany was started in 1971 under the leadership of Dr. (Mrs.) Vishwanathan. Initially, the college had only preuniversity and B.Sc. I classes, from 1975 B.Sc. II classes were also started. Dr Vishwanathan resigned from the service in 1975 and Dr H. G. Jahagirdar took over the charge of the Department. During that period separate Botany lab was constructed on the first floor of the college building. Dr Jahagirdar left the college in December 1976 then Dr S.K. Podoley was appointed as Head of the Department. Subsequently, Dr Kalode also was appointed in 1980. The department ran successfully and carried out various minor research projects conducted by UGC till the year 2006. In 2007 Dr Kalode got retired due to superannuation of age while Dr Padoley retired from the service in May 2009. Dr Padoley presented Research papers in Japan and Germany and got the best paper presentation award in Japan. He was also nominated for the National Body of Environment. In 2009, Dr. (Mrs.) Jayshree Thaware joined the department as an Assistant Professor and Head from the 2009-2010 academic year. She looked after Department with few contributory teachers. In 2010 Dr (Mrs) Rashmi Jachak joined the department. In 2012, a major research project funded by University Grants Commission was granted to Dr Jayshree Thaware worth Rs.10, 01, 499/- and successfully submitted to UGC. Many research papers are published by both the present faculties in national and international journals of repute								
Facilities	Scientific identification of Plants, Air samplers							
Departmental Achievements	 Submission and completion of Major Research Project by UGC Departmental results always more than University results Faculties Awarded by Best teacher award, Best Researcher award , best academician award and best poster presentation award Participation of students in many co-curricular and extracurricular activities and winning prizes 							
Best Practices of the Dep TITLE OF THE PRACTICE- E	artment Invironmental Awareness and Green Practice							
 GOAL- Create awareness at staff and plan actions to say practice has been effective objectives; OBJECTIVES OF THE PI To create a peaceful among students. To conduct activities To inculcate practic long-lasting impact of CONTEXT- The College has campus beautification. The spaces, sports grounds and b in by the management and th OUTCOME OF THE PP A 	bout the importance of a balanced environment among students and we our environment in order to make our life safe and healthy. This ily implemented for the stakeholders to implement the following RACTICE- environment on the college campus and increase green consciousness is to support the environment. al and humanitarian bend of mind among students that can prove a on their future personal and professional life. as a large campus with rich biodiversity also supporting the cause of major habitats on the campus include plantations, gardens, open uildings. The geographical area of the college supports the efforts put the administration to run activities that support nature.							
• Tree plantation drives are organized regularly to create a clean and green campus. During								

	every academic year	r, the NCC and NSS wings of the college take up the program for ularly						
	 The college premises is filled with greenery which produces a soothing impact or summer days. By growing plants to make our atmosphere fresh and breathe green air. A set-up of a to be a plant nursery will be experimented with by the Botany department the next academic session 							
	 Some saplings are grown which are donated by students and social organizations in the vicinity of the college. The college is richer with a large variety of medicinal plants and wide variety of plant appairs. 							
EV stud all stud visi of evi- on day diff flor cha pat the	 There are varieties of large trees is 355 if Altogether 100 differ All the science stude Environmental science is raised. These init inspire students to tal /IDENCE OF SUCCESS idents' sensibility towards the activities and behave idents. The collective efforsitor. More plants are grow life for all academicians idence of the practices can campus, the plantations v y practical class work mathematical class work mathematical students are grow and other green zone allenging as they need mothogenic activities are a class work the activities are a class and other green and other green zone allenging as they need mothogenic activities are a class work the area 	s of plants in the whole premises of the college. The total number of 5 in number. Many annuals, herbs, shrubs and lignans are presen ferent plant species are found on college premises. Indents are involved in the initiative taken by the Botany department an ence students. Because of this, the interest of students in the plantation nitiatives exhibit institute efforts for environmental sustainability an take up responsible steps for a better environment and better life. SS- All the activities and programs run by the institution are focused or ds the environment and nature. They are found actively participated in the maintain the campus clean and green are visible to any outsid owing each year on the campus. Always giving green gifts- a plant –gi ns and chief guests associated with college programs. The pieces of can be seen in terms of a cleaner environment, bio-diversity maintaines with rare plants as well common plants which are needed for day-to material. Problems Encountered and Resources Required Planning on the continuous efforts of staff as well students. Maintenance of the college program resources and funds. Moreover, animal hazards and other a challenge to surviving new plants and green leaves. Water scarcity i rea in summer and the water resources are limited use.						
Pla too	acement if any after PG	• Takshit Kadbe recruited in South Central Railways as Assistant Loco shed on Permanent basis posted at						
		 Ms Purvayee Kadbe appointed at S.K.Porwal College as Laboratory Assistant on Permanent Basis. Mr Yashwant Rathod was appointed at S.K.Porwal College as Laboratory Assistant on Permanent Basis. Ms Smruti Murkute appointed as General labour in WCL, Nagpur Area, Nagpur. 						
Dej	partmental Awards	Dr Rashmi Jachak 1) "Kalp- Young Academician Award" by Department of						
		 Biotechnology and Microbiology, Kalp Laboratories, Mathura. In 4 th National Annual Conference. 2) "Best Women Researcher Award" by Research Education by solutions Centurion university, Odisha.2022 3) "Best Academician Award" by International Journal for Innovative Engineering and Management Research. IJIEMR- Elsevier SSRN Research Award 2022 						
Co	ollaborations and MOU	Memorandum of Understanding- To Promote Academics and Research Interaction and Cooperation between Kamla Nehru College, Sakkardara, Nagpur and Seth Kesarimal Porwal College, Kamptee on 4th March 2020.						

Academic	Programs B.Sc							
Courses /	Group Available CBZ							
Programmes								
0	B.Sc. (BOTANY) PROGRAM SPECIFIC OUTCOME							
	After successful completion of this course, the student will-							
	* Be able to cultivate Botanical observations (Flora) and nurture the interest.							
	* Be able to communicate to lay audiences and arouse their interest in the beauty of nature i.e.							
	environment and science.							
	*Be able to explain the core ideas and techniques of Botany at the college level.							
	*Be able to recognize the power of nature (Environment) and generalization in society.							
	* Be able to carry out objectives analysis of the given class work material.							
	*Be able to recognize the importance of studying Botany as basic science in this modern							
	biotechnology							
	*Be work independently able to collaborate effectively in teamwork							
	* Be able to continuously enrich them through a lifelong journey.							
	* Students can conceive the knowledge of General characteristics, nature and economic							
	importance of viruses, bacteria, mycoplasma, algae, fungi, bryophytes, pteridophytes,							
	gymnosperms and angiosperms.							
	* Be able to identify the angiosperm flora in nature up to the family level.							
	BOTANY SUBJECT (COUDSE) OUTCOME							
	BOTANT SUBJECT (COURSE) OUTCOME							
	B.Sc. SEMESTER-I							
	B-1 Viruses, Prokaryotes, Algae and Biofertilizers							
	B-2 fungi, Lichen, Plant Pathology, Bryophyta and Mushroom Cultivation							
	Upon completion of this course, successful students will be able to							
	• Understand the living nature of Prokaryotes like viruses, mycoplasma, bacteria and Cyanobacteria.							
	• They can conceive the knowledge of General characteristics and nature of viruses, Types, their multiplication and Economic importance.							
	Indupretend the structure. Departies and reproduction of Muconlesme							
	 Understand the structure, Properties and reproduction of Mycoplasma. Learn about the bacteria. Algae, fungi and Bryonbytes concerning their structure, reproduction and 							
	Economic Importance.							
	• They can familiarize the symbiotic relationship of lichen and the Saprophytic and parasitic							
	relationship of Fungi.							
	• Find the relationship between Host and pathogen and disease control measures concerning diseases							
	caused by viruses, bacteria and fungi.							
	• Can understand the relationship of evolution from aquatic habitat to amphibian habitat of							
	Bryophytes.							
	 Concerve the concept of aneration of generation. Concerve the life evelop of bacteria, evenobacteria, algae, fungi and bryonbytes. 							
	 Can analyze the first cycles of bacteria, cyanobacteria, argae, fungi and bryophytes. They got knowledge of handling the class work material in the laboratory and can find the relation. 							
	between permanent slides of material and their sections							
	• To get acquainted with the role and importance of biofertilizers.							
	• To know how to make Mass production of biofertilizers							
	• Can understand the microbes associated with biofertilizers products and production.							
	• Can identify and characterize Rhizobium, Azotobacter, PSB and Azolla- the biofertilizers.							
	To understand the technology of Mushroom cultivation							
	• To know the nutritional and medicinal value of edible mushrooms and Poisonous mushrooms.							
	B.SC. SEMESTER-II B.3 Palaeobotany. Ptaridonhytes: Cymnosparms and soil analysis							
	B-4 Morphology of Angiosperms and Floriculture							
	Upon completion of this course, successful students will be able to							
	• Understand the morphology and anatomy of first land plants meaning pteridophytes.							
	• Learn the life histories of <i>Rhynia</i> a fossil plant, <i>Selaginella</i> and <i>Equisetum</i> .							
	• Conceive the knowledge of the Alternation of generation and economic importance of							

 pteridophytes. Understand Evolutionary development in land plants like apogamy, apospory, stellar development.
heterospory and seed habit.
Understand the concept of Phanerogams
• Learn about Evolutionary trends in Gymnosperms concerning its general characters and economic
Importance and alteration of generation.
• Introduced to new topic Paraeobotany i.e. lossin plants, lossinzation theories, Geological time scale, types of fossils etc.
 Analyzed the difference between living plants and fossil plants.
• Understand the external structure i.e. morphology of Angiosperm.
• Familiarize with the Morphology of various Parts of plants i.e. root, stem, leaf, inflorescence, and flower.
• To know the composition of the soil.
• To understand the physical and chemical properties of soil.
• To get acquainted with the sampling of the soil.
 To know the commercial aspects of Floriculture To understand the methods of cultivation with reference to various parameters to increase the yield
of the flowers
• To know various disease and their control measures associated with floral cultivation
B.Sc. SEMESTER-III
B-5 Angiosperm Systematics, Embryology and Indoor Gardening
B-6 Angiosperm Anatomy and Horticulture
Upon completion of this course, successful students will be able to
 Can relate to the unreference between gynnosperms and angrosperms. Understand the phylogeny of angrosperms i.e. the origin of angrosperms.
 Can study the difference in fossil plants of angiosperms
 Familiarize the term Angiosperm Systematics and taxonomy. Principles of botanical nomenclature.
classification, systems of classification and modern trends in taxonomy etc.
• Expand their knowledge by studying the different family members based on their gross
morphology of dicots and monocots.
• Conceive the concepts of plant cell and cell organelles like Cell wall, cell membrane, nucleus, E.R.,
 Familiarize with the term Chromosomal organization sex chromosomes in plants
 Can learn the cell division methods i.e. mitosis and meiosis theoretically and practically.
• Define and analyze the term biostatistics.
• Find the relationship between plant breeding and evolution.
• To know the scope for landscaping and indoor gardening in various environments.
• To get acquainted with the various parameters to grow indoor plants.
• To study the various house plants.
 To study the Definition, Scope and Importance of Horticulture Methods of propagation of various horticultural crops
 To get acquainted with various techniques of Bonsai preparation
- See and Amazon and Amazon transformed and the formation of the second s
B.Sc. SEMESTER-IV
B-7 Cell Biology, Plant Breeding, Evolution and Seed Technology B-8 Capaties Molecular Biology and Plant Nursery
Upon completion of this course, successful students will be able to
• Can understand the basic body plan and modular type of growth, different types of the meristem.
• Can study the permanent tissue and the difference between simple and complex tissue.
• Understand the anatomical differences in the primary and secondary structure of monocot and dicot
root, stem and leaf.
• Can easily identify the anatomical differences and positions of vascular bundles, cambium, periderm growth rings can and heartwood
 Conceive the knowledge of the term senescence and abscission.
• Determine the differences between microsporogenesis and Megasporogenesis. * Analyze the
terms double fertilization and triple fusion.
• Learn the laws of inheritance, interaction of genes, linkage of genes and chromosomes, crossing
• Can determine the structural changes in chromosomes

	• Learn about the structure of DNA and the concept of genes, DNA damage and repair.
	• Can define and analyse the term genetic code, gene expression and regulation of gene interaction.
	• To study the structure and types of various seeds.
	• To understand the term seed dormancy and methods to break it.
	• To know about seed testing and its certification
	• To understand the term Commercial types of seeds
	• To know the term plant nursery and the infrastructure required to raise it.
	• To understand the planning and seasonal activities regarding plant nurseries.
	• To understand how to do nursery management.
	B.Sc. SEMESTER-V
]	B-9 Plant Physiology, Mineral Nutrition and Hydroponics
]	B-10 Plant Ecology and Organic Farming
	Upon completion of this course, successful students will be able to
	• Conceive the terms of carbohydrates, lipids, amino acids and enzymes.
	• Understand the plant water relations and water conduction through the xylem and transport of
	material through the phloem.
	• Find the relation of mineral nutrition.
	• Learn the respiration phenomenon in plants and different physiological processes in respiration.
	• Familiarize the term photosynthesis and the physiology behind the different cycles of
	photosynthesis
	• Can understand nitrogen metabolism.
	• Find relation in the terms of ecology and climate.
	• Learning about Pedogenesis means soil formation, soil profile, and soil properties.
	• Understand biotic and abiotic factors and biogeochemical cycles.
	• Concerve the term Ecosystem.
	• Learns Phytogeography.
	• To understand Hydroponics.
	• To learn about mineral nutrition.
	• To understand micronutrients and macronutrients and their role and deficiency symptoms.
	• To differentiate the advantages and disadvantages of hydroponics i.e. soil-less farming.
	• To know the various methods for hydroponics cultivation.
	• To get acquainted with the term Organic farming.
	• To learn the methods of Preparation of Bio-compost and preparation of vermicompost and its type
	• To understand the concept of organic manure.
	R So SEMESTED VI
1	D.St. SEITESTER-VI B-11 Riochemistry Riotechnology and Herbal technology
1	B-11 Diochemistry, Dioceennology and Herbar technology B-12 Phytogeography. Utilization of plants. Techniques and Pharmacognosy
1	Upon completion of this course, successful students will be able to
	• Understand the growth concept, circadian rhythms and biological clock.
	• Learn about the plant growth regulators and different tropic and Nastic movements of plants.
	 Familiarize with the term Photoperiodism.
	Conceive the concept of seed dormancy and plant defence.
	• Find the relation between pant relation and biotechnology.
	 Analyze the term plant tissue culture i.e. Micropropagation
	Determine the term genetic engineering
	 Learn about DNA libraries
	Understand the meaning of transgenic plants
	 Determine the advantages and disadvantages of transgenic plants.
	 Learn plant succession and different adaptations with suitable examples
	• Conceive the concept of environmental pollution and its types control and environmental
	management.
	• Evaluate the term natural resources.
	• Find the relation between the principle and application of microscopy electrophoresis
	spectroscopy, chromatography etc.
	• Understand the term utilization of plant with proper examples of food oil fibre spices beverages
	medicinal and rubber plants.
	• Conceive the concept of ethno botany.

	Retired staff of the department with period and their contribution to the department	Dr S.K.Padoley 1976-2009 Dr Kalode 1980-2007 Dr Padoley presented Research papers in Japan and Germany and got the best paper presentation award in Japan. He was also nominated for the National Body of Environment				
		Dr Jayshree Thaware Associate Professor and Head Department of Botany				
		professional guidance. It is a moment of great pleasure for the to make students opt for Botany as one of the subjects, so as to get benefitted from the research work that will ultimately help in the welfare of society. Department is committed to providing a positive educational experience for each student, an environment of personal growth and achievement. We aim to create an enabling environment where students thrive and gain comprehensive education and broadened scientific knowledge in order to equip them with skills that will benefit them in their future and professional ambitions. Our department has a distinguished record in both teaching and research. Teaching and research are inseparable components. In the department, both Faculty members have excellent academic credentials and are highly regarded. They have been conferred with many prestigious awards at national levels. Faculties of the department are known to be very approachable and happy to help students. For the all-round development of students, they are encouraged to participate in academic and extracurricular activities. Department also organizes laboratory visits, industrial visits, and botanical excursions from time to time which provides exposure and insight to students. Best of luck with your future endeavors				
	CHB Faculty Supporting staff Ms Purvayee Kadbe Laboratory Assistant	plant molecular biology, physiology and biochemistry, plant pathology, ecology, genetics, Systematics, evolution, bioinformatics and transgenic technology. Plant Systematics on a varied range of taxa ranging from algae, fungi and other microbes, bryophytes and vascular plants (ferns, gymnosperms and angiosperms including crop plants) at cellular, organism, community and ecosystem level. Our Botany department is unique because we provide innovative programs of excellence in research, education and public and professional guidance. It is a moment of great pleasure for me to				
	Head Dr Rashmi A. Jachak Associate Professor Dr. Prajakta Bobde	Welcome Dear Students, Current thrust areas of teaching and research provide students with substantial exposure to a variety of subject areas in Botany. The discipline's studies include plant structure, growth and development,				
Faculties	 To know the history and importance of herbal technology To understand the basic concepts of drugs. To learn the Cultivation, harvesting, processing, storage and utilization of some drug plants To study some herbs used in cosmetics. To get acquainted with the term Pharmacognosy To understand the Definition and scope, of Drug adulteration its Types and methods of dru evaluation also biological testing of herbal drugs. Biological source, staining, diagnosis, micro-chemical tests, chemical constituents, preparation at uses of drug extracted of some Pharmacognosy plants. Dr Jayshree S. Thaware Associate Professor and FROM THE DESK OF THE HEAD OF THE DEPARTMENY. 					

Research For each Teacher	Rese Dr J	arch Profile of Department ayshree Thaware	;						
Separately	Sr	Particulars	Total Numbe	Univers ity	State	e	Nation	al Internatio	onal
	Ν		r						
	0.		02			.1	01		
		Talks, Lecturers, etc	02)]	01		
	2	Papers presented in Conferences, Seminars, Workshops, Symposia	19	01	C)1	14	03	
	3	Full papers in Conference Proceedings	02				02		
	4	Session Chaired in Conference/ Seminars	01				01		
	5	Invited Members	01				01		
	6	Participations in Seminars, Conferences and Workshops	51	09	C)6	26	10	
	7	Participations in Webinars	19	03	C)4	12	03	
	8	Paper Reviewed for the Research Journals	02				01	01	
	9	Organization of Seminars, Conferences, Workshops Completions	07	01	C)3	03		
	10	Judge in Seminars	01	01					
	Dr R	ashmi Jachak Particulars	Total	Unive	rsity]
	N 0.		Numbe	r		Natio	onal	International	
	1	Invited Person, Invited Talks, Lecturers, etc	03	0.	3	C)1		
	2	Papers presented in Conferences, Seminars, Workshops, Symposia	20			1	0	10	
	3	Full papers in Conference Proceedings	04			C	4		
	4	Participations in Seminars, Conferences and Workshops	40			2	.2	18	
	5	Participations in Webinars	06			C	96		

Minor Major Research Projects in	Sr. No	Project title	Sanctioning Authority	Amount Sanctioned	Duration	Status Completed / Ongoing
Department Completed, Ongoing etc.	1	Atmospheric survey of fungal spores in the Intramural and Extramural environment of Kamptee with respect to different bachts	University Grants Commission, New Delhi	Rs.10.01,499/-	3 years	Completed
		Principal investigator- Dr Jayshree Thaware				

Publications

StateNationalInternationalStateNationalInternationalDr Jayshree Thaware1161231Dr Rashmi Jachak10172 books12		Jo	ournal Publi	cations	Book Chapters Publications		
Dr Jayshree Thaware 1 16 12 3 1 Dr Rashmi Jachak 10 17 2 books 1 2		State	National	International	State	National	International
Dr Rashmi Jachak 10 17 2 books 1 2	Dr Jayshree Thaware	1	16	12		3	1
	Dr Rashmi Jachak		10	17	2 books	1	2

Student Strengths

Year	Course			Eligibility	Link to syllabus
	Part I	Part II	Final		https://docs.google.com/docume
2016-2017	74	50	27	XIIth State Board	nt/d/1LLXNKt1Z12DF7dD-
2017-2018	70	63	24	/CBSE board/ICSC	hAbFS2XJxkmxPWEJ/edit?usp= sharing&ouid=11675102247431
2018-2019	69	51	25	board exam passed	6304094&rtpof=true&sd=true
2019-2020	66	49	26	student	<u></u>
2020-2021	58	56	75		
2021-2022	47	51	56		
2022-2023	53	51	51		

Student Progression

Year	PG Diploma	PG Degree	Other Courses
2018-2019		4	1
2019-2020		4	
2020-2021		4	
2021-2022		5	2

Result Analysis for Department

Year Number of Student Admitted in batch		Student n batch	Appeared in Final Year	Number in Final Years		Number of Students in final Year		Drop out ratio	College Result in Percentage
	First Year	Final year		Boys	Girls	Passed	Failed		
2016-2017	74	27	27	5	22	19	6	36%	76%
2017-2018	70	24	24	5	19	21	3	34%	87%
2018-2019	69	25	25	3	22	25	1	36%	96%
2019-2020	66	26	26	4	22	26	0	39%	100%
2020-2021	58	81	81			80	1		100%
2021-2022	47	56	54	11	43	54	2		94%
2022-2023	51	51		13	38				

Faculties

	Name	Specialisation	Area of	Link to Profile	
			Research		
Head	Dr Jayshree Sandesh Thaware	Palynology and Aerobiology	Palynology and Aerobiology	https://docs.google.com /document/d/1018YQB8 okW62T_tHcC3- R7cRTzIiKr/edit?usp=s haring&ouid=11675102 2474316304094&rtpof= true&sd=true	
Faculties	Dr Rashmi Ajiet Jachak	Phycology	Biofertilizers and Metal Biotechnology	https://docs.google.co m/document/d/1WoW kcOPIBNELDodqvzskk1 MDF- 84sfs4/edit?usp=sharin g&ouid=101003410069 791821978&rtpof=true &sd=true	
Ex-Head	Name	Duration			
	Dr (Mrs) Vishwanathan	1971-1975			
	Dr H.G. Jahagirdar	1975-1976			
	Dr S.K.Padoley	1976-2009			
Ex- Faculties	Dr Kalode	1980-2007			