



Department-wise List of Interdisciplinary Programmes

Sr. No.	Programme	Participating Departments	Comment how its Benefits	Implemented Year
1	M.Sc. Industrial Biotechnology	Biosciences *Faculties from GCET college is associated in the programme for teaching courses pertaining to chemical engineering. *Faculty member from MBA department was initially associated to teach management related elective course.	This is a unique course sponsored by Department of Biotechnology, Government of India and only offered at our University in the whole country. The course is amalgamation of courses from Biotechnology, Basic biological sciences, Chemical Engineering fundamentals and Business management. This enables students to qualify national level competitive exams as well as making them employable in industry.	2004
2	M.Sc. Bioinformatics	Biosciences, Computer Science, Statistics	This is an emerging science and a course offered at our university prepares students in this area of multi-disciplinary nature to enable them to build their career as Computational Biologist.	2004
3	M.Sc. Food Biotechnology	Biosciences (Microbiology)	The students under this program are taught courses related to foods and nutrition as well as fermentation technology and biotechnology with respect to foods. It has opened up new line of research in the Home science department wherein newer areas like probiotics, fermented foods, plant tissue culture for secondary metabolite production etc. have been initiated.	1998



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4	Post MSc diploma in Nutrigenomics	Home science (various branches like food and nutrition, food biotechnology)	The Nutrigenomics integrates the field of foods and nutrition with genetics. Although there is no formal participation of other department of the university, guest faculties related to the field of nutritional biochemistry and genetics are invited for teaching, practical as well as for research planning. The department has opened up a new area of research wherein human and animal model studies are being carried out to study the interaction of specific nutrientd with genes. Two PhD students are also working in this area.	Diploma since 2010 MSc since 2013
	M.Sc. Food and Nutrition with Nutrigenomics			
	Post M.Sc. diploma in food designing and quality assurance			
	M.Sc. Food and Nutrition with food designing and quality assurance			
5	M.Sc. (QPM)	Department of Statistics, Department of Computer Science and Department of MBA	The programme produces scholars with a skill of Statistical Software, Statistical Methodologies and Management.	2005-2006
6	M.Sc. (Biomedical Science)	The interdisciplinary courses running at CISST are framed with the strong support, discussion and interaction with scientists from the national laboratories like Physical Research Laboratory, Space Application Centre, DRDO, NCL, AIIMS,	This course offers career in specialist laboratory work, experts and consultant role in research, education and management of health care industry, laboratories that deal with diagnosis, prevention and control of infectious and communication diseases, food testing laboratories, faculty positions at colleges, universities and industries based on pharmaceutical and biotechnology companies.	2013
	M.Sc. (Defence Science)	Doctors and surgeons from Medical College and senior Professors from the basic Science Departments (such	Research carrier in national laboratories under defence research and development organization, industries based on alloys, electronic devices, sensors, propellants, explosives	2013

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		as Biosciences, Chemistry, Physics, Computer Science, Materials Science, Electronics, Mathematics, Statistics) of the University and neighbouring Engineering colleges within the campus.	and materials of defence interest.	
	M.Sc. (Earth Science)	Teaching faculties from SPU basic science departments, other universities, national institutes are involved in teaching of those interdisciplinary courses.	Carrier as research scientist in academic, public or private institutions in diverse array of fields including (but not restricted to environmental policy and planning, environmental consulting, resources management, wild life management, conservation and research at national and state level laboratories dealing with geosciences, seismology and mineral research and development. UPSC Combined Geologists/Geoscientists Examination.	2013
	PG Diploma in Defence Materials (PGDM)		This two semester course diploma course would be an add-on course for the graduates to increase the possibilities of finding a job in defence manufacturing and production sector.	2014