

KURUKSHETRA UNIVERSITY KURUKSHETRA

Department of Geology

Department profile:

The Department of Geology was established in 1990-91. The department has five faculty members. Besides running M.Sc. Applied Geology program, the department undertakes Ph.D. program in different specializations. The department has had a funding of about Rs. 1 crores through numerous research projects sanctioned by the Department of Science and Technology, New Delhi, the University Grants Commission, New Delhi and University funding. The department has also been given a grant of Rs. 25 lac under the FIST Program of the DST. The department has established active links with many NGO's since 1996.

Chairperson : Dr.P.C.Chaturvedi

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Faculty Information

	Joining Date	Specialization	Qualifications	Contact information
Chairperson Dr.P.C.Chaturvedi	24.12.1987	Environmental Geology, Groundwater Hydrology, Engg. Geology	M.Sc., M.Tech (IIT - Kanpur), Ph.D (Moscow)	01744-238338 chaturvedi.pravin@rediffmail.com
Professor Dr.S.K.Lunkad	13.12.1985	Sedimentology, Groundwater Hydrology and Environmental Geology	M.Tech (civil Engg.), Ph.D (France)	01744-238216 Sk_lunkad@india times.com
Dr.N.N.Dogra	15.12.1987	Micropaleontology and Stratigraphy Palynology and Hydrocarbon source rock	M.Sc., Ph.D. (Panjab University, Chandigarh)	01744-238453 nndogra@rediffmail.com

evaluation,
palynostratigraphy,
Himalayan Geology,
paleoenvironment
and palaeoclimates

Reader Dr.G Vallinayagam	12.12.1990	Igneous Petrology, Geochemistry	M.Sc., Ph.D (Panjab University, Chandigarh)	01744-238165 gvallinayagam@r ediffmail.com
Dr.A.R.Chaudhari	20.10.1993	Sedimentology, Stratigraphy, Himalayan Geology, Remote Sensing and GIS, Paleoseismology, Active Tectonics and Seismic Hazard Assessment	B.Sc. (Hons.) M.Sc. Ph.D. (Panjab University, Chandigarh), MBA	01744-239653 98966318020 archaudhri@gmai l.com

Lecturer = = = -

Courses offered

Type of Course (Postgraduate & others) System of Examination

M.Sc. Applied Geology Semester

Profile of different courses offered

Degree Type	Course Duration	No of sanctioned seats	Scheme of Exam.(Annual/Semester)
M.Sc.Applied Geology	Two Years	15+5 (Sponsored)	Semester

Details of different Courses

Course Name : M.Sc. Applied Geology
 Course Type : Post Graduate
 Exam Scheme : Semester
 Duration : Two years

Semester-wise/ Year-wise details

M.Sc. Applied Geology First Semester

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
G-101	Geology I	-	-	100	25	75
G-102	Geology II	-	-	100	25	75
G-103	Physics and Chemistry of the Earth	-	-	100	25	75
G-104	Geoexploration	-	-	100	25	75
G-105	Practical (Geolab)	-	-	100	25	75

M.Sc.Applied Geology Second Semester

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
G-201	Mineralogy Instrumentation and Analytical Techniques	-	-	100	25	75
G-202	Structural Geology and tectonics	-	-	100	25	75
G-203	Computing techniques in Geoscience	-	-	100	25	75
G-204	Paleobiology and Micro-paleontology	-	-	100	25	75
G-205	Practical *Computer Lab G203+G201	-	-	100	25	75
G-206	Geological Field Training	-	-	100	25	75
G-207	Practical (G202+G204)	-	-	100	25	75

M.Sc.Applied Geology Third Semester

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
G-301	Geohydrology	-	-	100	25	75
G-302	Stratigraphy Paleogeography and Palaeoecology	-	-	100	25	75
G-303	Igneous and Metamorphic Petrology	-	-	100	25	75
G-304	Sedimentology and Geomorphology	-	-	100	25	75
G-305	Engineering and Mining Geology	-	-	100	25	75
G-306	Practical (G302+G303+G304)	-	-	100	25	75
G-307	Practical (G2301+G305)	-	-	100	25	75

G-308	Geological Field Training	-	-	100	-	
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M.Sc. Applied Geology Fourth Semester

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
G-401	Environmental Geology	-	-	100	25	75
G-402	Geochemistry	-	-	100	25	75
G-403	Remote Sensing	-	-	100	25	75
G-404	Fuel Geology	-	-	100	25	75
G-405	Ore Geology and Mineral Economics	-	-	100	25	75
G-406	Practical(G401+G403)	-	-	100	25	75
G-407	Practical (G402+G404+G405)	-	-	100	25	75

Facilities

Library : The Department have a Library.

Teaching Labs : Perto-Mineralogy lab, Palynology lab, Micropaleontology lab, Geochemical & Ground water lab with UV - Visible spectrophotometer, Flame photometer, Turbidity and pH Meters, BOD Incubator, Glassware, Distillation Apparatus, Electronic Balances and Chemicals.

AAS Lab., Sedimentology Lab. Computer Lab and Microscopy Lab. Field survey and camping equipments including theodolite, plane-table, Dumpy Level, Brunton Compasses, Hand held GPS and field cameras etc.

Others facilities : Museum

Placement cell

Placement information for the year 2005-06 :

The 90% students are placed in Govt. / private sectors / N.G.Os through Campus and off the Campus interviews.

Information on Seminar and Conferences

Seminar/ conferences organized by the Department (2006-07)

Information on Research Activities (Projects)

Topic Name	Incharge	Date From	To	Status
Geohydrological , environmental Geological and engineering Geological investigations of Haryana, Rajasthan, Kerala	Dr. P.C. Chaturvedi	1988 -		Continuing
Hydrogeological and enviroteoscientific studies	Dr. S.K. Lunkad	1986		Continuing
Palynology and Stratigraphy of Palaeogene rocks along Kalka-Kasauli section, Northwestern Himalaya,India	Prof.N.N.Dogra Funded UGC New Delhi	1995	to 1998	completed
Palynology and Stratigraphy of Infra- and intertrappean formations of Jabalpur and surrounding regions and its implications on K/T Event.	Prof.N.N.Dogra Funded by DST, New Delhi	1997	to 2001	completed
Palynology , Stratigraphy, hydrocarbon source evaluation studies, palyoenvironment and paleoclimates of Mesozoic and Cenozoic stratigraphic horizon of India	Prof.N.N.Dogra	1987		continuing
Volcano-plutonic Siwana ring structure W.Rajasthan, India: Petrogenesis and mineral deposit modelling	Dr.G.Vallinayagam Funded by DST, New Delhi	1994	to 1997	completed
Flow stratigraphy and geochemistry of the magmatic rocks in Nakora area of Malani Igneous Suite, District Barmer, Western Rajasthan: Implications for petrogenesis and rare metals mineralization	Dr.G.Vallinayagam UGC Major Research Project, UGC New Delhi	2006	to 2009	on going
Petrological evolution of Tosham, Narnaul (Haryana), Jhunjhunu (Rajasthan) and their implication to metallogeny	Dr.G.Vallinayagam	1990		continuing
Sedimentological studies Of Proterozoic and Cenozoic Horizons	Dr. A.R. Chaudhri	1993		Continuing
Paleoseismological and Quaternary Geological Studies along the HFF	Dr. A.R. Chaudhri Funded by DST, New Delhi	2002	to 2005	Completed

Active tectonics along
The Himalayan foothill
Region

Dr. A.R. Chaudhri
Funded by DST, New Delhi

2006

Ongoing

Information on Achievement

Achievement Area

Infra-structure Development

Achievement Details

The department has been awarded infra-structure development grant by the Dept. of Science and Technology, New Delhi (DST FIST)