

KURUKSHETRA UNIVERSITY KURUKSHETRA

**DEPARTMENT OF MATHEMATICS**

**Department Profile**

Chairperson Prof. Vinod Kumar  
Contact Information Department of Mathematics  
Kurukshetra University  
Kurukshetra  
Kurukshetra-HARYANA  
INDIA  
136119

Phone : 01744-238196 Ext.2499, 2575

Email :

**Faculty Information**

<b>Information</b>	<b>Joining Date</b>	<b>Specilization</b>	<b>Qualifications</b>	<b>Contact</b>
<b>Chairperson</b>				
Prof. Vinod Kumar	28.08.78	Topology	Ph.D.(I.I.T)	01744-238196-2499
<b>Professor</b>				
Dr. Ram Karan	18.06.88	Algebra	Ph.D.(K.U.)	01744-238196-2575
Dr. V.P.Kaushik	13.11.84	Mech. of Cont.Media	Ph.(K.U)	01744-238196-2859
Dr. M.D.Sharma	20.02.92	Theoretical Seismology	Ph.(K.U.)	01744-238196-2575
Dr. Rajneesh Kumar	08.08.88	Elasticity(Thermo, Micropolar)	Ph.D.(G.N.D.U.)	01744-238196- 2575

## Reader

Dr. A.K.Vashishth 13.11.84 Theoretical Seismology, Ph.D(K.U.) 01744-238196-  
Applied Mathematics NET 2729

Dr. V.K.Bhardwaj 31.07.90 Analysis Ph.D.(K.U) 01744-238196-  
2575

## Lecturer

Mr. Dalbir Singh 13.09.93 Number Thoery M.Sc.(MDU) 01744-  
NET 238196-2575

Mrs.Sumitra Devi 05.04.96 Applied Mathematics M.Sc.(MDU) 01744-  
238196- M.Phil. 2575

## Courses offered

Type of Course(Postgraduate & others)  
Postgraduate

System of Examination  
Annual

## Profile of different courses offered

Degree Type	Course Duration	No. of sanctioned seats	Scheme of Exam. (Annual /Semester)
M.Phil.	One Year	10	Annual
M.Sc.	Two Year	60+20	Annual

## Details of different Courses

Course Name : M.Sc.Mathematics, M.Phil. Mathematics  
Course Type : Annual  
Exam. Scheme : Annual  
Duration : M.Sc.Mathematics Two year  
M.Phil.Mathematics One year

**Semester-wise/Year-wise details**

<b>Paper Code</b>	<b>Paper Name</b>	<b>Paper Type</b>	<b>Paper Remarks</b>	<b>Max Marks</b>	<b>Internal Marks</b>	<b>External Marks</b>
M.Sc.(P)						
MM-401	Advanced Abstract Algebra			100	-	-
MM-402	Real Analysis			100	-	-
MM-403	Topology			100	-	-
MM-404	Complex Analysis			100	-	-
MM-405	Differential Equations			100	-	-
M.Sc.(F)						
MM-501	Integration Theory and Functional Analysis			100	-	-
MM-502	Partial Differential Equations and Mechanics			100	-	-
MM-503 (Opt.i)	Analytic Number Theory			100	-	-
MM-503 (Opt.ii)	Fuzzy Sets & Their Applications			100	-	-
MM-503 (Opt.iii)	Mechanics of Solids			100	-	-
MM-503 (Opt.iv)	Mathematical Aspects of Seismology			100	-	-
MM-504	Algebraic			100	-	-

(Opt.i)	Coding Thoery					
MM-504 Opt.ii	Algebraic Number Theory			100	-	-
MM-504 Opt.iii	Difference Equations			100	-	-
MM-504 Opt.iv	Fluid Mechanics			100	-	-
MM-505 Opt.i	Fundamentals of Computer Science(Theory & Practical)			100	-	-
MM-505 Opt.ii	Integral Equations and Boundary Value Problems			100	-	-
MM-505 Opt.iii	Non- Commutative Rings			100	-	-
MM-505 Opt.iv	Programming in 'C' with ANSI Features (Theory & Practical			100	-	-
MM-505 Opt.v	Advanced Discrete Mathematics			100	-	-
M.Phil. Stream-A						
MPH 601-A	Mechanics of Continuous Media			100	20	80
MPH 602-A	Computational Fluid Dynamics			100	20	80
MPH	Seismology			100	20	80

603-A						
MPH 604-A	Advanced Mathematical Methods			100	20	80
MPH 605-A	Bio-Mechanics			100	20	80
MPH 606-A	Mathematics Biology			100	20	80
MPH 607-A	Thermo Elasticity			100	20	80
M.Phil. Stream-B						
MPH 601-B	Advanced and Categorical Topology			100	20	80
MPH 602-B	Theory of Operators			100	20	80
MPH 603-B	Geometry of Numbers			100	20	80
MPH 604-B	Homological Algebra			100	20	80
MPH 605-B	Representation Theory of Finite Group			100	20	80
MPH 606-B	Advanced Functional Analysis			100	20	80
MPH 607-B	Fractal Geometry			100	20	80

### **Facilities**

Library :The department has a departmental library which houses books needed by the students of the department and Research Journals.

Teaching Labs : The computing lab of the department is likely to be functional soon.

Others facilities : The department has a Ph.D. Programme also.

### **Placement Cell**

There is no direct/formal way of getting placement information in the department. However, it may be added that many students after doing M.Sc./M.Phil. of the department have got lectureships in various colleges of the state.

### **Information on Seminar and Conferences organized by the Deptt.(2006-07)**

Nil

### **Information on Research Activities (Projects) (2006-07)**

Nil

### **Information on Achievement**

Achievement Area

Achievement Details

JRF of CSIR/UGC

Some students after doing M.Sc. from the Department were awarded Junior Research Fellowship of CSIR/UGC.