

Department Profile

Kurukshetra University has taken pioneering in imparting and education in the field of Computer Science & Applications. A full- time computer software oriented Post-M.Sc Diploma course was introduced in the University from the academic year 1972-73, later in the year 1981, this University was the first in the country to start a U.G.C. supported one year M.C.A. programme. This was replaced by a two year M.C.A. programme from the academic year 1984-85, onwards. In December 1990, U.G.C. has sanctioned the proposed of Department of Computer Science & Applications to update the Two-Year M.C.A. programme to three Year M.C.A. programme under the U.G.C.-D.O.E. Joint Manpower Training Programme in Computer Science & Technology and the same was launched in the session 1991-92. The Department was also running One-Year post B.Sc. Diploma in Computer Science & Applications (D.C.A.) with effect from the session 1983-84, under the joint support of U.G.C.& D.O.E. the Department has also started two year M.Sc. (Computer Software) w.e.f. Academic session 1995-96, and M.Tech in Computer Science & Engineering three Semester full –time programme w.e.f. Academic session, 1996-97.

Chairperson : Dr. Ashok Kumar, Reader

Contact Information : Department of Computer Science & Applications
Phone No. – (01744-238195)

Faculty Information

Name & Designation	Joining Date	Specialization	Qualifications	Contact Information
Dr. Ashok Kumar, Reader & Chairperson	12-01-1982	Optimization techniques, Numerical Methods, Web testing, etc.	Ph.D	01744-239231
Dr. P.K. Suri, Professor	10-10-1990	System simulation, Operating System, Software engineering, etc.	Ph.D	01744-239595, 9896014327
Dr. R.K. Chauhan, Reader	01-03-1989	Database, Data Mining & Warehousing, Mobile computing, Ad-hoc networks, etc.	Ph.D	01744-239588, 9896538201
Dr.(Mrs.)Schuchita Upadhyaya, Lecturer	02-11-1989	Computer Networking, Computer Graphics, etc.	Ph.D	9416201634
Dr.(Mrs.)P.R.Suri, Lecturer	24-08-1995	Discrete Mathematics, Data Structure, Visual Basic, Computer Networking, Object-oriented programming, etc.	Ph.D	01744-239595
Dr. Rakesh Kumar, Lecturer	13-10-1994	Artificial Intelligence, Software Engineering, Web Engineering, Programming Languages, etc.	Ph.D	01744-294145, 9896336145
Dr. Rajender Nath, Lecturer	28-01-1989	Object-Oriented programming, Computer architecture, Software reuse, Bioinformatics, etc.	Ph.D	01744-238771, 9896084060
Sh. Chander Kant,	12-08-	Bioinformatics, Object-Oriented	M.Tech, M.Sc(I.T.)	9416303050

Lecturer	2004	programming, Web Engineering, Software engineering, etc.		
Sh. Pardeep Kumar Mittal, Lecturer	20-08-2004	Linux, Object-Oriented Programming, 'C' language, Data Structure, Discrete Mathematics, Logical Organization of Computer, etc.	M.Sc.(Comp.Sc.)S/W M.Sc.(Statistics)	9416085369
Sh. Ramesh Kumar	23-11-2006	Computer Network, Object-oriented programming, 'C' language, Logical organization of computer, etc.	M.Sc.(Comp.Sc.)S/W	9416412681

Courses Offered

Type of Course(Postgraduate & others) System of Examination

M.Tech.(Computer Sc. & Engg.),P.G.	Semester
M.C.A.,P.G.	Semester
M.Sc.(Computer Sc.)S/W, P.G.	Semester

Profile of different courses offered

Degree Type	Course Duration	No. of sanctioned seats	Scheme of Exam.(Annual/Semester)
M.Tech.(Comp.Sc. & Engg.), P.G.	2 Years	30	Semester
M.C.A., P.G.	3 Years	61	Semester
M.Sc.(Comp Sc.)S/W, P.G.	2 Years	30	Semester

Details of different Courses

Course Name	:	M.Tech.(Computer Science & Engineering)
Course Type	:	Post-Graduate
Exam Scheme	:	Semester
Duration	:	2-Years

Semester-wise/Year-wise details

M.Tech.(Comp. Sc. & Engg.) Ist-Sem.

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
MT-CSE-110	Programming Fundamentals & Problem Solving Using C	Theory	Compulsory	150	50	100
MT-CSE-120	Data Structures	Theory	Compulsory	150	50	100
MT-CSE-130	Computer Architecture	Theory	Compulsory	150	50	100
MT-	Linear Algebra and	Theory	Compulsory	150	50	100

CSE-140	Discrete Mathematical Structure					
MT-CSE-150	Programming Language Principles & System Programming	Theory	Compulsory	150	50	100
MT-CSE-160	Software Lab-I Programming in C	Practical	Compulsory	100		100
MT-CSE-170	Software Lab-II Implementing Data Structure in C	Practical	Compulsory	100		100
MT-CSE-180	Seminar	Oral	Compulsory	50	50	

M.Tech.(Comp. Sc. & Engg.) IInd-Sem.

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
MT-CSE-210	Data Base System and ORACLE	Theory	Compulsory	150	50	100
MT-CSE-220	Operating Systems	Theory	Compulsory	150	50	100
MT-CSE-230	Object Oriented Methodology	Theory	Compulsory	150	50	100
MT-CSE-240	Software Engineering	Theory	Compulsory	150	50	100
MT-CSE-250	Data Communication & Networks	Theory	Compulsory	150	50	100
MT-CSE-260	Software Lab-I ORACLE	Practical	Compulsory	100		100
MT-CSE-270	Software Lab-II C++	Practical	Compulsory	100		100
MT-CSE-280	Seminar	Oral	Compulsory	50	50	

M.Tech.(Comp. Sc. & Engg.) IIIrd-Sem.

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
MT-CSE-310	System Simulation	Theory	Compulsory	150	50	100
MT-	Visual Programming	Theory	Compulsory	150	50	100

CSE-320						
MT-CSE-33E	Elective-I	Theory	Optional	150	50	100
MT-CSE-34E	Elective-II	Theory	Optional	150	50	100
MT-CSE-350	Literature Survey (for MT-CSE-410)	Survey	Compulsory	-----	-----	-----
MT-CSE-360	Software Lab-I Shell Programming	Practical	Compulsory	100		100
MT-CSE-370	Software Lab-II Visual Programming	Practical	Compulsory	100		100
MT-CSE-380	Seminar	Oral	Compulsory	50	50	

List of Elective Papers

- MT-CSE-311 Micro Processor and Interfaces
 MT-CSE-321 Computer Graphics and Multimedia
 MT-CSE-331 Computer System Reliability
 MT-CSE-341 Compiler Design
 MT-CSE-351 Artificial Intelligence and Expert System
 MT-CSE-361 Software Quality Models and Testing

M.Tech.(Comp. Sc. & Engg.) IVth-Sem.

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
MT-CSE-410	Dissertation Presentation & Viva-voce	Training	Compulsory	550	50	500

Course Name : Master in Computer Science & Applications
 Course Type : Post-Graduate
 Exam Scheme : Semester
 Duration : 3-Years

M.C.A Ist-Sem.

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
MCA-101	Computer Fundamentals & Problem Solving Through C	Theory	Compulsory	60	10	50
MCA-	Computer Organisation	Theory	Compulsory	60	10	50

102						
MCA-103	Discrete Mathematical Structure	Theory	Compulsory	60	10	50
MCA-104	Software Engineering	Theory	Compulsory	60	10	50
MCA-105	Computer Oriented Numerical and Statistical Methods Using C	Theory	Compulsory	60	10	50
MCA-106	Software Lab-I C (Based on MCA-101)	Practical	Compulsory	40		40
MCA-107	Software Lab-II C (Based on MCA-105)	Practical	Compulsory	40		40
MCA-108	Seminar	Oral	Compulsory	20	20	

M.C.A IInd-Sem.

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
MCA-201	Data Structures Using C	Theory	Compulsory	60	10	50
MCA-202	Computer Network	Theory	Compulsory	60	10	50
MCA-203	System Simulation	Theory	Compulsory	60	10	50
MCA-204	Computer Oriented Optimization Techniques	Theory	Compulsory	60	10	50
MCA-205	Object Oriented Systems and C ++	Theory	Compulsory	60	10	50
MCA-206	Software Lab-I C Language (Based on MCA-201)	Practical	Compulsory	40		40
MCA-207	Software Lab-II C++ (Based on MCA-205)	Practical	Compulsory	40		40
MCA-208	Seminar	Oral	Compulsory	20	20	

M.C.A IIIrd-Sem.

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
MCA-301	Data Base Systems	Theory	Compulsory	60	10	50
MCA-302	Visual Programming using VB	Theory	Compulsory	60	10	50
MCA-303	Computer Architecture and Parallel Processing	Theory	Compulsory	60	10	50
MCA-304	Operating System	Theory	Compulsory	60	10	50
MCA-305	Windows Programming & Visual C++	Theory	Compulsory	60	10	50
MCA-306	Software Lab-I ORACLE (Based on MCA-301)	Practical	Compulsory	40		40

MCA-307	Software Lab-II VISUAL PROGRAMMING (based on MCA-302 & MCA-305)	Practical	Compulsory	40		40
MCA-308	Seminar	Oral	Compulsory	20	20	

M.C.A IVth-Sem.

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
MCA-401	JAVA Programming and Internet Applications	Theory	Compulsory	60	10	50
MCA-402	Data Mining and Warehousing	Theory	Compulsory	60	10	50
MCA-403	LINUX and Shell Programming	Theory	Compulsory	60	10	50
MCA-404	Elective-I	Theory	Optional	60	10	50
MCA-405	Elective-II	Theory	Optional	60	10	50
MCA-406	Software Lab-I JAVA Programming (Based on MCA-401)	Practical	Compulsory	40		40
MCA-407	Software Lab-II LINUX & Shell Programming (Based on MCA-403),and CASE Tools	Practical	Compulsory	40		40
MCA-408	Seminar	Oral	Compulsory	20	20	

List of Elective Papers

- (1) Principles of Programming Languages
- (2) System Programming
- (3) Advanced Database Systems
- (4) Microprocessors and Interfaces
- (5) Design and Analysis of Algorithms
- (6) Software Project Management
- (7) Management Information System
- (8) Theory of Computation
- (9) Network Management & Programming

M.C.A Vth-Sem.

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
MCA-501	Computer Graphics and Multimedia	Theory	Compulsory	60	10	50
MCA-502	Artificial Intelligence	Theory	Compulsory	60	10	50
MCA-	Web Engineering	Theory	Compulsory	60	10	50

503						
MCA-504	Elective-I	Theory	Optional	60	10	50
MCA-505	Elective-II	Theory	Optional	60	10	50
MCA-506	Software Lab-I PROLOG Programming and Graphics(Based on MCA-501 & MCA-502)	Practical	Compulsory	40		40
MCA-507	Software Lab-II HTML,CGI using PERL,JSP, XML (Based on MCA-503)	Practical	Compulsory	40		40
MCA-508	Seminar	Oral	Compulsory	20	20	

List of Elective Papers

- (1) Compiler Construction
- (2) Internet and Intranet Engineering
- (3) Principles of Finance & Accounting
- (4) E-Commerce
- (5) Software Testing and Quality Assurance
- (6) Neural Networks
- (7) Fuzzy Logic
- (8) Programming in C#
- (9) Professional Issues in I.T.
- (10) Human Computer Interaction

M.C.A VIth-Sem.

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
MCA-601	Project	Training	Compulsory	200	50	150

Course Name : M.Sc.(Computer Science) Software
Course Type : Post-Graduate
Exam Scheme : Semester
Duration : 2-Years

M.Sc.(Comp. Sc.) S/W Ist-Sem.

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
MS-11	Discrete Mathematical Structures for Computer Science	Theory	Compulsory	100	25	75
MS-12	Computer System	Theory	Compulsory	100	25	75

	Architecture and Parallel Processing					
MS-13	Operating System	Theory	Compulsory	100	25	75
MS-14	Object Oriented Systems and C++ Programming	Theory	Compulsory	100	25	75
MS-15	Computer Oriented Optimization Techniques	Theory	Compulsory	100	25	75
MS-16	Software Lab-I UNIX & SHELL Programming	Practical	Compulsory	75		75
MS-17	Software Lab-II C++ Programming	Practical	Compulsory	75		75
	INTERNAL ASSESSMENT BASED ON SOFTWARE LAB-I & LAB-II	Practical		25	25	
MS-18	Seminar	Oral	Compulsory	25	25	

M.Sc.(Comp. Sc.) S/W IInd-Sem.

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
MS-21	Data Communication and Computer Networks	Theory	Compulsory	100	25	75
MS-22	Visual Programming	Theory	Compulsory	100	25	75
MS-23	Software Engineering	Theory	Compulsory	100	25	75
MS-24	JAVA Programming and Internet Applications	Theory	Compulsory	100	25	75
MS-25	System Simulation	Theory	Compulsory	100	25	75
MS-26	Software Lab-I Visual Programming	Practical	Compulsory	75		75
MS-27	Software Lab-II JAVA Programming	Practical	Compulsory	75		75
	INTERNAL ASSESSMENT BASED ON SOFTWARE LAB-I & LAB-II	Practical		25	25	
MS-28	Seminar	Oral	Compulsory	25	25	

M.Sc.(Comp. Sc.) S/W IIIrd-Sem.

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
MS-31	Software Quality Models and Testing	Theory	Compulsory	100	25	75
MS-32	Computer Graphics and Multimedia	Theory	Compulsory	100	25	75
MS-33	Microprocessors and Interfaces	Theory	Compulsory	100	25	75
MS-34	Advanced Data Base Systems	Theory	Compulsory	100	25	75
MS-35	Elective	Theory	Compulsory	100	25	75
MS-36	Software Lab-I ORACLE Programming	Practical	Compulsory	75		75
MS-37	Software Lab-II	Practical	Compulsory	75		75

	ASSEMBLY Programming					
	INTERNAL ASSESSMENT BASED ON SOFTWARE LAB-I & LAB-II	Practical		25	25	
MS-38	Seminar	Oral	Compulsory	25	25	

List of Elective Papers

- i) Artificial Intelligence & Applications
- ii) Design and Analysis of Algorithm
- iii) Software Project Management
- iv) Compiler Construction
- v) Theory of Computations
- vi) Principles of Programming Languages

M.Sc.(Comp. Sc.) S/W IIIrd-Sem.

Paper Code	Paper Name	Paper Type	Paper Remarks	Max Marks	Internal Marks	External Marks
MS-41	Project	Training	Compulsory	500	50	450

Facilities

- Library : Deaprtment is having well-equipped library with approx. 1300 Books covering various areas in computer science.
- Teaching Labs : There are four well-equipped labs having sufficient no. of computer systems and other accessories.
- Other facilities : Department is having L.C.D. Projector, O.H.P., Laptops, etc. for different types of activities like seminars, presentations, etc.

Placement cell

Students placed in YEAR 2005-06

1. HCL TECHNOLOGIES LIMITED (MARCH 14, 2005)

1. DEEPSHIKHA SINGH (M.TECH.)
2. PREETI SINGH (M.TECH.)
3. LALIT GANDHI (M.TECH.)
4. RAJNI KHURANA (M.TECH.)
5. GARIMA GUPTA (M.TECH.)
6. SUNIL AGNIHOTRI (M.TECH.)
7. JITENDER KUMAR (M.TECH.)
8. SHALU POPLI (M.SC.)
9. ATUL SINGLA (M.SC.)

10. PALAK SUNEJA (MCA)
11. SANJEEV KUMAR (MCA)
12. SUNGANDHA (MCA)
13. SUNIL GARG (MCA)
14. AJAY JAIN (MCA)
15. MANOJ KUMAR (MCA)
16. ARUN KUMAR (MCA)

2. NEWGEN (APRIL 18, 2005)

1. SHIKHA BANSAL (MCA)
2. SHOBHIT JAIN (MCA)
3. GAURAV ARORA (M.TECH.)
4. BHAWNA GUPTA (M.TECH.)

3. BHARTI TELESOFT

1. MONIKA GARG (MCA)
2. MEETALI ARORA (MCA)
3. GAURAV BHANWALA (MCA)
4. SAMEER SONI (MCA)
5. SANDEEP JEEVAN (MCA)
6. NITIN ROHILA (MCA)
7. MEENAKSHI CHAUDHARY (M.TECH)

4. MOBERA SYSTEMS

1. HEMANT (MCA)

5. KALE CONSULTANTS

1. RAHUL VERMA (MCA)
2. RAKHI JHAMB (MCA)

Students placed in YEAR 2006-07

HCL TECHNOLOGIES

1. VIKESH MITTAL (MCA)
2. RITESH SINGHAL (MCA)

XENSAR

3. MANOJ KUMAR MITTAL (MCA)
4. SAKSHI (MCA)
5. DEEPA BANSAL (MCA)
6. SUNNY MALIK (MCA)

NEWGEN

7. GEETANJALI TYAGI (MCA)
8. NIDHI GUPTA (MCA)
9. VINAY ARORA (M.TECH.)
10. PRASHANT (M.TECH.)
11. SIDDHART (M.TECH.)
12. POOJA MADKAN (M.TECH.)

NIIT

13. MANMOHAN SINGH (MCA)
14. BABITA SINGLA (MCA)
15. SAURABH (MCA)
16. ASHISH (M.TECH.)
17. NAMITA (M.TECH.)

BHARTI TELESOFT

18. AMIT KATARIA (MCA)
19. SANJEEV SHARMA (M.TECH.)

JK TECHNOSOFT

20. MANISH BANSAL (M.TECH.)

SAFENET

21. PUNEET BANSAL (MCA)

ADITI COMPUTERS

22. POORTI SHARMA (MCA)
23. PINKI (M.SC.)
24. PARVEEN MITTAL (MCA)

I-FLEX TECHNOLOGIES

25. RITESH SINGAL (MCA)

SCICOM TECHNOLOGIES, NOIDA

26. BHAWNA RAWISH (M.SC.)
27. JASWINDER SINGH (M.TECH.)
28. SHWETA BAJAJ (M.TECH.)
29. PREETI VERMA (MCA)
30. PANKAJ GOEL (MCA)
31. SASWAT GAUR (MCA)
32. ABHISHAKE VIZ (MCA)
33. NIDHI GUPTA (MCA)
34. MONICA (MCA)
35. DEEPAK SINGHAL (MCA)

TECH MAHENDRA

36. HEMA TANDON (M.SC.)
37. ANJANA BATRA (M.SC.)

US TECHNOLOGIES

38. SANDEEP DAHIYA (MCA)

ALCATEL

39. SANDEEP RATHI (MCA)
40. VIJYA YADAV (MCA)
41. AMIT GOEL (M.TECH.)
42. NAMITA (M.TECH.)

ACCENTURE

43. DEEPA BANSAL (M.SC.)

MOBERA SYSTEMS

44. PANKAJ SHARMA (MCA)

SABER CORPS

45. REKHA (MCA)
46. ANSHU (MCA)
47. ANKANA (MCA)

GREEN FIELD

48. REKHA (MCA)
49. KOMAL (MCA)
50. ROMA (MCA)
51. ANSHU (MCA)
52. VANDANA (MCA)

Information on Seminar and Conferences

NIL

Information on Research Activities(Projects)

NIL

Information on Achievement**Achievement Area**

Research

Achievement Details

All the faculty members are actively engaged in research activities & department has produced a no. of students who have completed their Ph.D.