Academic Section





NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA Institution of National Importance

Vision

To be a role-model in technical education and research, responsive to global challenges



Mission

To impart quality technical education that develops innovative professionals and entrepreneurs and to undertake research that generates cutting-edge technologies and futuristic knowledge, focusing on the socio-economic needs

Academic Structure

Teaching Departments/Schools

A. Engineering:

- i. Civil Engineering
- iii. Information Technology
- v. Electrical Engineering,
- vii. Production & Industrial Engineering
- ix. School of Renewable Energy and Efficiency
- xi. School of Material Science & Nanotechnology

B. Sciences, Humanities & Social Sciences

- i. Chemistry
- iii. Mathematics
- C. Business Administration
- **D. Computer Applications**

- ii. Computer Engineering
- iv. Electronics & Communication Engineering
- vi. Mechanical Engineering
- viii. School of VLSI Design and Embedded Systems
- x. School of Biomedical Engineering
- ii. Physics
- iv. Humanities & Social Sciences

Academic Programme

The Academic Programs span over a wide range of areas in Engineering, Applied Sciences, Humanities, Management, and Computer Applications. Presently, the Institute conducts 07 B.Tech., 20 M.Tech. (two more to be started in 2015-16), one MBA (Regular and Self- Financed) one MCA (Regular and Self- Financed) and Ph. D. programmes in all the above disciplines.

Under Graduate Programmes

Sr. No.	B.Tech.	Intake
1	Civil Engineering	140
2	Computer Engineering	92
3	Information Technology	92
4	Electronics & Communication Engineering	138
5	Electrical Engineering	140
 6	Production & Industrial Engineering	92
7	Mechanical Engineering	138
8	DASA (all programmes)	125
	Total	957

Post Graduate Programmes

Deptt./School	M.Tech.	Regular	TEQIP	Sponsored	Total
Civil	1. Soil Mechanics & Foundation Engg.	16	2	5	23
Engineering	2. Structural Engineering	16	3	5	24
	3. Water Resources Engineering	16	1	5	22
	4. Transportation Engineering	16	2	5	23
	5. Environmental Engineering	20	1	5	26
Computer Engg.	1. Computer Engineering	20	5	5	30
	2. Cyber Security*	20	0	5	25
Electrical	1. Power System	16	4	5	25
Engineering	2. Control System	16	4	5	25
	3. Power Electronics & Drives	16	4	5	25
Electronics & Comm. Engg.	1. Electronics & Comm. Engg.	20	4	5	29
Mechanical Engg.	1. Industrial & Production Engg.	16	4	5	25
	2. Machine Design	16	4	5	25
	3. Thermal Engineering	20	4	5	29
Chemistry	1. Molecular Engineering & Advanced Chemical Analysis*	20	0	5	25
Physics	1. Instrumentation	20	0	5	25
	2. Nanotechnology	20	0	5	25
School of VLSI Design	1. VLSI Design	20	12	5	37
& Embedded System	2. Embedded System Design	20	0	5	25
School of Renewable	1. Renewable Energy Systems	20	0	5	25
Energy & Efficiency					
School of Biomedical Engg.	1. Biomedical Engineering	20	0	5	25
School of Material Science and Nanotechnology	1. Material Science and Nanotechnology	20	0	5	25
	Total (22 Programmes)	404	54	110	568

Master of Business Administration – Two-year Programme Master of Computer Applications – Three-year programme 90 Seats (60+30**) 90 Seats (60+30**)

Ph. D. Programmes - All Departments (Full Time as well as Part Time)

*To be started from 2015-16

**Self-financed seats

Year	B.Tech.	M.Tech.	MBA	MCA	Ph.D	Total				
2012	2911	536	120	258	220	4045				
2013	3158	729	125	250	289	4551				
2014	3191	740	99	247	386	4663				

Students Strength (during last three years)

Admission Process

B.Tech. (Bachelor of Technology)

In the Undergraduate courses – B.Tech. Degree Courses, admissions are made on the basis of JEE (Main) conducted by Central Board of Secondary Education (CBSE) on behalf of the Govt. of India. The Central Seat Allocation Board (CSAB) on behalf of all the NITs, other Centrally Funded Technical Institutions(CFTIs) and other Self Financed Technical Institutions(SFTIs)(Including teaching schools/departments of Pvt. Universities) conducted centralized admissions for B.Tech programmes till 2014–15.

From 2015–16 onwards CSAB is replaced by the Joint Seat Allocation(JoSAA) by the MHRD for centralized counseling for all UG and UG+PG programmes offered by the IITs,NITs and other CFTIs.

Master of Technology (M.Tech.)

Admission to M. Tech. degree courses are made on the basis of candidate's score in the GATE examination. Seats are first filled by admitting GATE qualified candidates and then by industry sponsored candidates. Remaining vacant seats are offered to Non-GATE candidates with a minimum of 60 percent marks (55 percent for SC candidates) in their qualifying examination. While GATE candidates are eligible for a scholarship of Rs. 12,400/- per month, Non-GATE candidates are not given any scholarship.

MBA (Master of Business Administration)

Admission for the course of MBA is done through stringent screening process using CAT scores followed by group discussion and personal interview conducted at the Institute.

MCA (Master of Computer Applications)

The admission to MCA programs are made mainly through (NIMCET) which is a centralized body of all the NITs.

Academic Bodies

- (i) Senate
- (iii) DAC (Departmental Advisory Committee)
- (v) DRC (Doctoral Research Committee)
- (vii) Student Advisory Committee

- (ii) Standing Committee on Senate Affairs, SCSA
- (iv) BOS (Board of Studies)
- (vi) Doctoral Committee

Evaluation System

CONTINUOUS EVALUATION SUB-COMPONENTS AND WEIGHTAGE

	SUB-COMPONENT	WEIGHTAGE %
(a)	Theory Papers	
1.	Three Class Tests (Two best to be reckoned)	10+10=20
2.	Teacher's Assessment through viva-voce, Home Assignments, on the Spot tests, Short Quizzes etc	10
3.	Class Attendance (L+T)*	20
4.	End Semester Examination	50
(b)	For Practicals	
1.	Mid Semester Evaluation (to be conducted in regular Practical Classes)	20
2.	Teacher's Assessment through viva-voce, short quizzes, reports, Class work etc.	20
3.	Class Attendance*	20
4.	End Semester Examination	40
(c)	For Seminars, Projects, Training, Comprehensive viva and General Fitness evaluation, will be decided by Departmental Review/Academic Committees.	the weightage

*The maximum attendance for calculation of attendance component of sessional marks shall be 90% of the total classes held.

EVALUATION PROCESS

With effect from the batch of students admitted in the year 2003, the Institute has switched over to a Credit Based System of evaluation for all degree programmes.

Based on the performance of a student in a course evaluated through class-work, two mid semester examinations and an end semester examination, a letter grade for that course for the semester is awarded to a student.

Further, since each letter grade awarded to the student indicates the level of performance in that course, it has an assigned Grade Point for the purpose of computing the Cumulative Grade Point Average (CGPA) as given below.

Letter Grade	Performance	Grade Point
A+	Excellent	10
A	Very Good	09
В	Good	08
С	Average	06
D	Pass	04
Е	Required to Improve	02
F	Repeat	00

Cumulative Grade Point Average (CGPA) is the weighted average of all the grades and computed as follow:

 $CGPA = \Sigma CiGi / \Sigma Ci$

Ci denotes credits assigned to i^{th} course and Gi indicates the Grade point equipment to the Letter Grade obtained by the student to the i^{th} course.

A student who earns an E Grade in a course shall have to re-appear in that course in the subsequent examination (s) and a student who earns an 'F' Grade in a course shall have to repeat that Course.

The Percentage of marks of a student can be calculated by multiplying the CGPA of a student by 9.00.

Credits Assigned to B.Tech Programmes

Branch	Semester											
	1	2	3	4	5	6	7	8				
Civil	26.5	26.0	27.0	26.0	30.0	26.5	36.0	37.0	235.0			
Electrical	26.5	26.0	27.5	28.0	30.0	27.5	33.5	43.0	242.0			
Mechanical	26.5	26.0	26.0	27.5	29.0	26.0	30.5	34.5	226.0			
Computer	26.5	26.0	27.0	26.0	29.5	27.0	32.5	42.5	237.0			
IT	26.5	26.0	26.5	27.0	28.5	26.5	29.5	33.5	224.0			
IEM	26.5	26.0	26.0	27.0	29.0	28.0	30.0	33.0	225.5			
ECE	26.5	26.0	27.5	27.0	30.0	27.0	30.5	35.0	229.5			

Scholarships, Awards & Medals

SCHOLARSHIPS

Scholarships		Nur	nber av	varded		Value (Rs.)	
Year	1st	2nd	3rd	Final			
Batches	2013	2012	2011	2010	Total		
Merit Scholarship	84	84	56	21	245	Rs 3000/- per annum and a merit certificate	
Postmatric Scholarship	88	69	56	21	234	Rs. 740/- p.m. for Hostellers & Rs. 330/- p.m. for Day Scholars	
Others Agencies							
States of India	98	93	68	54	313	Students with full exemption from tuition fee.	
Railways P&T, ONGC etc.	47	38	21	06	112	As sanctioned by the various departments and concerned agencies.	
Academic Prizes							
B.Tech	44	44	147	44	279	upto ₹ 250/- in form of Academic Books	
Central Scholarship	68	51	34	17	170	₹ 1,23,140/- per student	
PG ScholarsAll GATE qualified eligible and admitted students of M.Tech. Courses are eligibleScholarship₹12,400 per month stipend as per Government of India guidelines.							
Doctoral Scholarship Programme	octoral Scholarship 35 Scholarships of amount ₹ 25000 for JRF and ₹ 28000 for SRF for valid GATE/NE						

AWARDS & MEDALS

Sr. No.	Name of Medals	Remarks
1.	B.Tech. Toppers	One in Each Branch of Engineering
2.	B.Tech. Major Project Toppers	One in Each Branch of Engineering
3.	Best All Round Students	Two (One girl and one boy) of B.Tech. Programme
4.	Sh. Shyam Sunder Dhingra Medal	Overall Topper of B.Tech.
5.	Dr. R.P. Singh Medal	Toppers of B.Tech. (Mechanical) 3rd & 2nd Year
6.	Manohar Award of Excellence	Topper of B.Tech. 1st Year
7.	M.Tech. Toppers	One in each Specialization of M.Tech. Programme
8.	MBA Topper	Overall Topper of MBA
9.	MCA Topper	Overall Topper of MCA

NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA

B.Tech. : Undergraduate Programme

Sr.	Programme	2008-2012		2009	-2013	2010-2014	
No.		Student Admitted	Students eligible for award of Degree	Student Admitted	Students eligible for award of Degree	Student Admitted	Students eligible for award of Degree
1	Computer Engineering	76	61	85	72	95	79
2	Information Technology	66	64	61	51	88	67
3	Electronics & Comm. Engineering	110	108	139	104	136	93
4	Mechanical Engineering	109	94	130	92	145	96
5	Industrial Engineering & Management	54	45	30	22	67	54
6	Electrical Engineering	102	92	122	102	125	89
7	Civil Engineering	104	100	125	95	134	105
	Total	621	564	692	538	790	583

M.Tech. Post Graduate Programme

Sr.	Programme/Specialization	2010	2010-2012		-2013	2012-2014	
No.		Student Admitted	Students eligible for award of Degree	Student Admitted	Students eligible for award of Degree	Student Admitted	Students eligible for award of Degree
1	Civil Engg. (Transportation)	13	8	12	8	19	18
2	Civil Engg. (Soil Mech. & Foundation)	5	4	13	10	16	16
3	Civil Engg. (Environmental)	6	4	10	7	15	13
4	Civil Engg. (Structural)	10	6	13	9	17	12
5	Civil Engg.(Water Resources)	3	2	7	6	17	14
6	Computer Engg.	25	20	30	26	22	20
7	Electronics & Communication Engg.	24	18	26	19	26	16

Mechanical Engg. (Thermal) School of VLSI Design & Embedded Systems (VLSI Design) School of VLSI Design & Embedded Systems (Embedded System Design) School of Renewal Energy and	15 18 0	12 12 0	22 24 0	20 18 0	25 26 21 14	20 15 16 12
School of VLSI Design & Embedded Systems (VLSI Design) School of VLSI Design & Embedded	18	12	24	18	26	15
School of VLSI Design & Embedded						
Mechanical Engg. (Thermal)	15	12	22	20	25	20
Mechanical Engg. (Machine Design)	19	15	23	20	25	24
Mechanical Engg. (Industrial & Production)	16	8	21	20	22	19
Electrical Engg. (Power Electronics & Drives)	16	15	23	17	24	16
Electrical Engg. (Power System)	13	8	17	15	25	21
Electrical Engg. (Control System)	18	16	18	16	22	19
Physics (Nanotechnology)	18	15	18	17	13	13
Physics (Instrumentation)	20	14	20	14	20	15

Other Post Graduate Programmes

Sr. No.	Programme/Specialization	Student Admitted	Students eligible for award of Degree	Student Admitted	Students eligible for award of Degree		Students eligible for award of Degree
	MBA	2010-2	2012	2011-2013		2012-20	014
1	Master of Business Administration (Two years, 4 Semester Full Time)	82	75	37	35	67	67
	МСА	2009	-2012	2010-	-2013	2011-2	2014
2	Master of Computer Application (Three years, 6 Semester Full Time)	80	80	92	86	85	84





12th convocation



Academic Office

Prof. Baldev Setia Prof. L.M Saini Sh. Pankaj Kumar Bayati Sh. Gopal Krishan Sharma Smt. Shashi Bala Smt. Madhu Bala

Mr. Manoj Mr. Rajesh Jaswal Mrs. Rachna Ms. Rakhi Dean (Academic) Prof-in-charge (Academic) Deputy Registrar (Academic) Superintendent SG-II Sr. Superintendent Stenographer SG-II

Computer Operator Computer Operator Computer Operator Computer Operator

NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

Phone : 01744-233223 Email : academic@nitkkr.ac.in Website : www.nitkkr.ac.in