

## MANDATORY DISCLOSURES

The following information is to be given in the Information Brochure besides being hosted on the Institution's official Website.

**"The information has been provided by the concerned institution and the onus of authenticity lies with the institution and not on AICTE."**

### I. NAME OF THE INSTITUTION

❖ **Address including telephone, Fax, e-mail.**

**GURU NANAK INSTITUTE OF TECHNOLOGY,**  
Vill. Sohana, Hema Majra Road, Teh. Barara, Distt. Ambala,  
Ph. No. +91 1731 274 540, Fax No. +91 1731 274 540  
Website: [www.gni.edu.in](http://www.gni.edu.in), E-mail: [info@gni.edu.in](mailto:info@gni.edu.in)

### II. NAME & ADDRESS OF THE DIRECTOR/PRINCIPAL

❖ **Address including telephone, Fax, e-mail.**

Dr. Beant Singh,  
VPO, Panjokhra Sahib,  
Ambala.  
Ph. No. 9996500140,  
E-mail: [info@gni.edu.in](mailto:info@gni.edu.in)

### III. NAME OF THE AFFILIATING UNIVERSITY

**Kurukshetra University,**  
Kurukshetra.

### IV. GOVERNANCE

#### IV (a) Members of the Board and their brief background

Sr. No.	Name	Brief Background	Capacity
1.	S. Tarlochan Singh (Trustee)	A retired Manager of a Nationalized bank	Chairman
2.	S. Harjinder Singh (Trustee)	Insurance, Business & Social Worker	Member
3.	S. Ishminder Singh (Trustee)	Businessman	Member
4.	S. Gurvinder Pal Singh (Trustee)	Businessman	Member
5.	Dr. V.P. Batra, Director Punjab College of Engg. & Tech., Lalru, Distt. Mohali(Pb.)	Educationist, former Professor & Chairman, Dept. of Electrical Engg. , NIT, Kurukshetra	Member
6.	Dr. T.K. Garg, Sr. Prof.(ME), NIT, Kurukshetra	Educationist	Member
7.	Sh. Sushil Kumar Garg, Gen. Manager, Yamuna Power & Infrastructure Ltd., Jagadhri Road, Yamuna Nagar	Industrialist	Member
8.	Mr. Navdeep	Corporate Member	Member
9.	Capt.(Retd.) Harbans Singh, VPO Gadhaula, Distt. YNR	Member Concerning Social Cause	Member
10.	Dr. Beant Singh, Director/Principal Guru Nanak Institute of Tech., Mullana(Ambala)	Principal	Member
11.	Registrar	Registrar	Ex-Officio

**IV (b) Members of Academic Advisory Body**

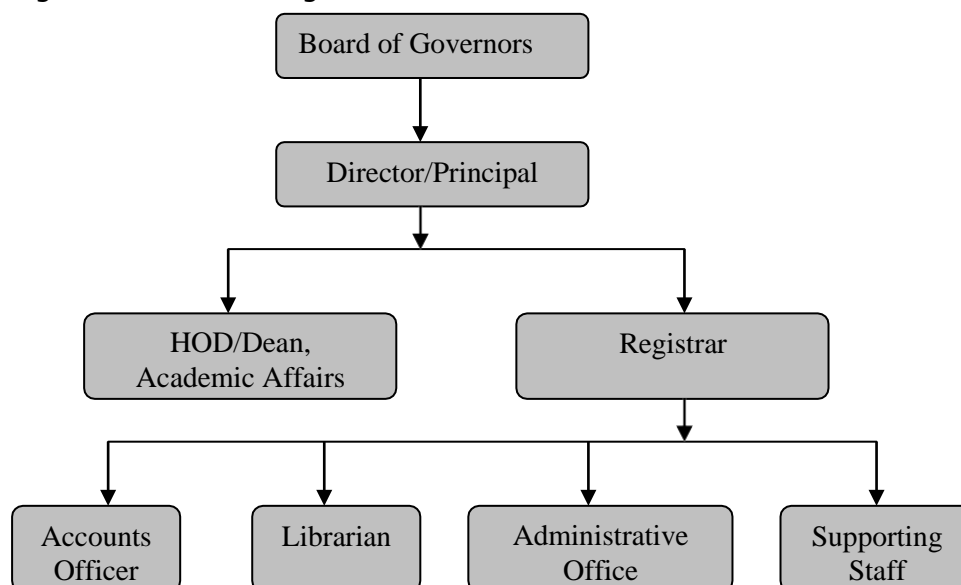
- |   |                      |
|---|----------------------|
| 1. Dr. Beant Singh, Director/Principal                | Chairman             |
| 2. Dr. Siddharth, Associate Professor in CSE          | Member               |
| 3. Mr. Gaurav Sharma, Asstt. Professor in ECE         | Member               |
| 4. Mr. Kulvinder Singh, Asstt. Professor in CE. Engg. | Member               |
| 5. Registrar  | Ex-Officio Secretary |

**IV(c) Frequency of the Board Meetings and Academic Advisory Body**

2/3 meetings of these bodies are held in a year.

**IV(d) Organizational chart and processes**

The organizational chart is given as under:-

**IV(e) Nature and Extent of involvement of faculty and students in academic affairs/improvements**

The members of the faculty are associated in taking decisions in academic matters so that the same are managed in democratic way. Regular meetings of the faculty are held in order to monitor the academic matters of the Institute and to have their views. The students representatives are associated with committees dealing with student's affairs, cultural affairs, sports etc.

**IV(f) Mechanism/Norms & Procedure for democratic/good Governance**

The Institute has a mechanism for managing the academic and administrative matters by involving the members of faculty, students and staff inculcating in them a sense of self-imposed-discipline for good governance and creating an environment conducive to good academics.

**IV(g) Student Feedback on Institutional Governance/faculty performance**

A mechanism of feedback from the students in respect of faculty has been introduced to appraise the performance of the faculty through a questionnaire system having transparency as well as confidentiality.

**IV(h) Grievance redressal mechanism for faculty, staff and students**

A scheme of personal counseling groups has been introduced by allocating students to a teacher, so that they can discuss any of their academic or any other problem in the Institute. There is also a 'Women Cell' to take care of the issues related to women staff & students. Besides, the Students & Staff Members can also meet the Chairman for the purpose any time.

**V. PROGRAMMES****V(a) Names of the Programmes approved by the AICTE**

4-year B.Tech. Degree programme in the following disciplines.

Sr. No.	Discipline	Intake
1.	Computer Science & Engg.	120
2.	Electronics & Comm. Engg.	60
3.	Civil Engg.	60
4.	Mechanical Engg.	60

2-year M.Tech. Degree programme in the following disciplines.

Sr. No.	Discipline	Intake
1.	Computer Science & Engg.	18
2.	Electronics & Comm. Engg.	09
3.	Mechanical Engg.	09

In addition to above, the students can get direct admission to B.Tech. 2<sup>nd</sup> year under Lateral Entry Scheme (LEET):-

Sr. No.	Discipline	Intake
1.	Computer Science & Engg.	24
2.	Electronics & Comm. Engg.	12
3.	Civil Engg	12
4.	Mechanical Engg.	12

**V(b) Name of the Programmes accredited:- Nil**

**V(c) For each Programme the following details are to be given:**

- **Name**
- **Number of seats**  **Please see information given against Sr. No. V(a) above.**
- **Duration**
- **Fee**  
Fees are charged as fixed by the State Fee Committee of Haryana Govt, as detailed in para VIII.
- **Placement Facilities**  
We have already setup a Placement Cell in the Institute which keeps in touch with the Industry and arranges their Training and Campus Interviews.
- **Campus placement in last three years with minimum salary, maximum salary and average salary**  
It is only the 4<sup>th</sup> year of the course, the Placement of students will be started when the 3<sup>rd</sup> year class is started.
- **Name and duration of programme(s) having affiliation/collaboration with Foreign University(s)/Institution(s) and being run in the same Campus along with status of their AICTE approval. If there is foreign collaboration, give the following details:**  
  
The Institute does not run any programme(s) having affiliation/collaboration with any Foreign University(s)/Institution(s).

**Details of the Foreign Institution/University:**

**N.A.**

- Name of the University/Institution

- Address
- Website
- Is the Institution/University Accredited in its Home Country
- Ranking of the Institution/University in the Home Country
- Whether the degree offered is equivalent to an Indian Degree? If yes, the name of the agency which has approved equivalence. If no, implications for students in terms of pursuit of higher studies in India and abroad and job both within and outside the country.
- Nature of Collaboration
- Conditions of Collaboration
- Complete details of payment a student has to make to get the full benefit of collaboration.

**V (d) For each Collaborative/affiliated Programme give the following: N.A.**

- Programme Focus
- Number of seats
- Admission Procedure
- Fee
- Placement Facility
- Placement Records for last three years with minimum salary, maximum salary and average salary

**V (e) Whether the Collaborative Programme is approved by AICTE? If not whether the Domestic/Foreign Institution has applied to AICTE for approval as required under notification no. 37-3/Legal/2005 dated 16th May, 2005 - N.A.**

## VI. FACULTY

**VI(a) Branch wise list of faculty members:**

Sr. No.	Name & Full Address	Exact Designation	Qualification		
<b>MECHANICAL ENGG.</b>					
1	Dr. Beant Singh Village Panjokhra Sahib Ambala	Principal	M.Tech. (ME)	Ph.D. (ME)	
2	Mr. Nitin Pandhi #7810/4, NadiMohalla, Ambala City	Asstt. Prof.	B.Tech. (ME)	M.Tech. (ME)	
3	Mr. Anil Kumar #32, VPO Tepla, Near Saha, Ambala	Asstt. Prof.	B.Tech (ME)	M.Tech (ME)	
4	Mr. Eshan Gupta VPO Zaffarpur, Distt. Ambala	Asstt. Prof.	B.Tech	M.Tech	
<b>APPLIED SCIENCES &amp; HUMANITIES</b>					
5	Ms. Shivani #160, Ram Nagar, Ambala City	Asstt. Prof.	B.Sc.	M.Sc (Mathematics)	
6	Mrs. Rojy # 493/1, Preet Nagar Barara, Near Arya Public School, Distt. Ambala	Asstt. Prof.	BA with Math	M.Sc (Mathematics)	
7	Ms. MaitriDhamija #66, VikasVihar, Ambala City	Asstt. Professor in Physics	B.Sc.	M.Sc. (Phy.)	
8	Ms. Puja #2187, VikasVihar, Barara, Distt. Ambala	Lecturer	BA	MA (English)	
9	Ms. Shiffali #1, Subhash Colony, AmbalaCantt	Asstt. Prof.	B.Sc	M.Sc (Chemistry)	
<b>CIVIL ENGG.</b>					
10	Dr. D.K. Maharaj #316-A, First Floor, Model Town, Yamuna Nagar	Professor	B.Sc. (Civil)	M.E. (Civil)	Ph.D. (Civil)
11	Mr. Jatin Thereja #2359, Sector-17, Huda, Jagadhri.	Asstt. Prof.	B.Tech (Civil)		

12	Mr. Jatin Sekhri #23, Shivalik Colony, MDSD Girls College Road, Ambala City.	Asstt. Prof.	M.Tech. (Highway Engg.)		
13	Mr. Ashu Near Tangail Road, Mullana, Ambala	Asstt. Prof.	B.Tech (Civil)		
14	Mr. Deepak Kumar #1056, Near Gas Colony, Barara	Asstt. Prof.	B.Tech (Civil)	M.Tech (Civil)	

**ELECTRONICS & COMM. ENGG.**

15	Mr. Gaurav Sharma #21-A/75, Thapar Colony, Yamuna Nagar	Asstt. Prof.	B.Tech (ECE)	M.Tech. (ECE)	
16	Mr. Mohit Dhanda H. No. 297-A, Saraswati Colony, Jagadhri	Asstt. Prof.	B.Tech (ECE)	M.Tech (ECE)	
17	Mr. Pardeep H. No. 345/G, Saraswati Colony, Jagadhri	Asstt. Prof.	B.Tech (ECE)	M.Tech (ECE)	
18	Mr. Vishal Kalra #334, Sector-1, Urban Estate, Shahbad	Asstt. Prof.	B.Tech (ECE)	M.Tech (ECE)	

**Computer Science Engg.**

19	Dr. Siddharth Arora 495-D, Aggarsain Colony, Jagadhri	Associate. Prof.	B.Tech. (IT)	M.Tech. (CSE)	P.hD
20	Ms. Gurpreet Kaur # 666, Near PNB Bank LakkarMandi, Barara	Asstt. Prof.	B.Tech. (CSE)	M.Tech. (CSE)	
21	Mr. Sanjay Kumar VPO BabyalAmbalaCantt	Asstt. Prof.	B.A	MCA	M.Phil
22	Mr. Prabhjeet Singh #20, Durga Nagar, AmbalaCantt	Asstt. Prof.	B.Tech. (CSE)	M.Tech. (CSE)	
23	Mr. Yasir Ahmad Itoo AraKhoshipora ,Distt. Anantnag, J&K	Asstt. Prof.	BCA	M.Sc. IT	
24	Ms. ShikhaManrai H-17 C, Mahesh Nagar, AmbalaCantt	Lecturer/AP	B.Tech. (CSE)	M.Tech. (CSE)	
25	Ms. Nupur Singh #492, Jawahar Nagar, Ambala City	Asstt. Prof.	B.Tech. (CSE)	M.Tech. (CSE)	
26	Mr. Amit #57, Baltana, Zirakpur (Punjab)	Asstt. Prof.	B.Tech	M.Tech	Ph.D. (CSE)
27	Ms. Jasreen Kaur #2585, MohallaLakarMandi, Rajouli Road, Barara	Asstt. Prof.	B.Tech	M.Tech	
28	Mr. Vivek Chhabra #203, VPO Buria, Near Police Post, Yamuna Nagar	Asstt. Prof.	B.Sc	MCA	M.Tech
29	Mr. Varun Jasuja VPO Jhansa, Distt. Kurukshetra	Asstt. Prof.	B.Sc	M.Tech	MCA
30	Mr. Sheikh Ovais Reyaz Hakoora Hakura Bodas Gam Annantnag Dooru, Jammu	Asstt. Prof.	B.Tech	M.Tech	

**PLACEMENT DEPARTMENT**

31	Mr. Virender Mehta 11F-1, New Model Colony, Ambala City	Asstt. Prof.		MBA	
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**WORKSHOP SUPDT.**

32	Mr. Munish Sudan # 3105, SingpuraMohalla, Barara	Workshop Supdt.	B.Tech. (ME)		
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- Permanent Faculty : 26(including Whole time Ad-hoc teachers)
- Visiting Faculty : **Nil**
- Adjunct Faculty : **Nil**
- Guest Faculty : **Nil**
- Permanent Faculty: Student Ratio : **1:15**

**VI(b) Number of faculty employed and left during the last three years**

NA

**FACULTY PROFILE**

**For each Faculty give a page covering.**

Please see one page covering on the prescribed format of each Faculty at **Appendix-I**.

## VI ©. PROFILE OF DIRECTOR/PRINCIPAL WITH QUALIFICATIONS, TOTAL EXPERIENCE, AGE AND DURATION OF EMPLOYMENT AT THE INSTITUTE CONCERNED

1. Name : **Dr. Beant Singh**

2. Date of Birth : **30<sup>th</sup> July, 1962**

3. Educational Qualifications : **M.E (Mech)**  
**Ph.D. Mech**

4. Work Experience

- Teaching : ← 24 years
- Research : ←
- Industry :
- Others :

: --

5. Area of Specializations : **Mechanical Engineering**

6. Subjects teaching at Under

Graduate Level : **Soil Mechanics and Transportation Engineering**

Post Graduate Level : **Soil Mechanics and Transportation Engineering**

7. Research guidance

No. of papers published in

Masters's : **30** - National Journals : **20**

Ph.D. : **01** - International Journals : **11**

- Conferences : **30**

8. Projects Carried out : **11**

9. Patents : **NIL**

10. Technology Transfer : **00**

11. Research Publications : **30**

12. No. of Books published with details : **03**

## VII. FEE

### VII(a) Details of fee, as approved by State fee Committee, for the Institution.

Tuition Fee (Rs.)	:	53,000/-
Development Fee (Rs.)	:	79,00/-
Student Fund (Rs.)	:	2,000/-
Caution Money-College (One time refundable)	:	2,000/-
Caution Money-Hostel/Mess (One time from Boarder/Hostellers only, Refundable)	:	2,000/-
University Fees	:	4,000/-
Environmental Fees	:	120/-
Mislinious Fees	:	11,980/-

#### For Add-On facilities (Fixed by Management):

Transport Charges (Optional for those who are commuting from following places)

From Ambala, Jagadhri & Shahbad (M):	12,000/-	per semester
From Barara :	6,000/-	per semester
Hostel/Mess Charges (from Hostellers only) :	55,000/-	per annum

#### **VIII(a) Time schedule for payment of fee for the entire programme.**

Semester-wise. 1<sup>st</sup> installment to be paid at the time of admission and the second installment on completion of 1<sup>st</sup> semester studies and before the 1<sup>st</sup> Semester University examination. This practice will be followed in subsequent years also.

#### **VIII(b) No. of Fee waivers granted with amount and name of students.**

The case for the grant of reimbursement of Tuition Fee of the following SC students who were admitted through Institute Level Counseling is under process with Haryana Govt.:-

Besides above, the following students who were top ranked in their respective branches have also been granted Tuition Fee Waiver by the State Govt. :-

List of SC students:-B.Tech 2022-23

S.No	RollNo	Name	F.Name	Semester/ Year
1.	6322001	AAKASH	RAJINDER KUMAR	1 <sup>ST</sup> Sem
2.	6322007	HARSH	RANBIR SINGH	1 <sup>ST</sup> Sem
3.	6322015	NAVJOT KAUR	SATISH KUMAR	1 <sup>ST</sup> Sem
4.	6322016	NIDHI RANI	DAYA RAM	1 <sup>ST</sup> Sem
5.	6322028	USHA RANI	JASWINDER SINGH	1 <sup>ST</sup> Sem
6.	6321001	NTIN	ANIL KUMAR	3 <sup>RD</sup> Sem
7.	6321002	RAJAT	SURENDER	3 <sup>RD</sup> Sem
8.	6320002	AVINASH	KARNAILSINGH	5 <sup>TH</sup> Sem
9.	6319010	ISHA	NARESHKUMAR	7 <sup>TH</sup> Sem
10.	6319024	SAHILKUMAR	RAJKUMAR	7 <sup>TH</sup> Sem
11.	6319709	RANJEETKAUR	RAMESHCHAND	7 <sup>TH</sup> Sem
12.	6319651	MANOJKUMAR	PRITHVISINGH	7 <sup>TH</sup> Sem

#### **VIII(c) Number of scholarship offered by the Institute, duration and amount.**

Not Applicable

#### **VIII(d) Criteria for fee waivers/scholarship.** Not Applicable

SC students whose parents' annual income is less than Rs. 2.5 lacs and falling, in categories mentioned in Sr. No. VIII (d) above are eligible for this Fee Waiver.

Besides, Tuition Fee Waiver is also granted to women, economically backward and physically handicapped meritorious students who were admitted against 10% extra seats over and above the sanctioned intake. For economically weaker students the annual income of parents/guardians should be less than Rs. 2.5 lacs. These are granted strictly as per AICTE guidelines.

#### **VIII(e) Estimated cost of Boarding and Lodging in Hostels.**

Rs. 55,000/- per annum, including Room rent, Mess, Water and Electricity charges.

### **IX. ADMISSION**

#### **IX (a) Number of seats sanctioned with the year of approval.**



**Sanctioned from the Session 2022-23**

1.	Computer Science & Engg.	120
2.	Electronics & Comm. Engg.	60
3.	Civil Engg.	60
4.	Mechanical Engg.	60

**IX (b) Number of students admitted under various categories of 2022-23.**

Branch	SC Cat.	BC Cat.	General Cat.	Total
Computer Science & Engg.	07	08	15	30
Electronics & Comm. Engg.	00	00	00	00
Civil Engg.	00	00	00	00
Mechanical Engg.	00	00	00	00
Total (in each Category)	07	08	15	30

**IX(c) Number of applications received during last two years for admission under Management Quota and number admitted. Not Applicable****X. ADMISSION PROCEDURE****X (a) Mention the admission test being followed, name and address of the Test Agency and its URL (website).**

JEE-2019 conducted by Central Board of Secondary Education, New Delhi  
<http://www.cbse.nic.in>.

**X (b) Number of seats allotted to different Test Qualified candidates separately [JEE]**

All seats are filled up on the basis of JEE-2019. However, in the absence of availability of the candidates who have appeared in JEE-2019, admission can be made by the Management on the basis of merit of qualifying examination (i.e. 10+2) against vacant/lapsed seats after final cut-off date for centralized counseling i.e. 15-08-18.

The students are admitted to B.Tech. 2<sup>nd</sup> year on the basis of their merit in the LEET-2019 conducted by Haryana State Counseling Society.

**➤ The policy of refund of the fee, in case of withdrawal, should be clearly notified.**

As per AICTE directions, in the event of candidate withdrawing before the starting of the course, the wait listed candidates are given admission against a vacant seat. The entire fee collected from the student, after deduction of the processing fee of Rs. 1000/- is refunded by the Institute to the student, withdrawing from the programme. However, if a student leave after joining the course and if the seat consequently falling vacant has been filled by another candidate by the last date of admission, the fee collected with proportionate deduction of monthly fee and proportional hostel rent, where applicable, is refunded.

**XI. CRITERIA AND WEIGHTAGES FOR ADMISSION****XI (a) Describe each criteria with its respective weightages i.e. Admission Test, marks in qualifying examination etc.****A) For B.Tech. 1<sup>st</sup> year**

Pass in 10+2 examination from a recognized Board/University with Physics & Mathematics and one of the following subjects:  
 Chemistry, Bio-Technology, Computer Science & Biology.

**B) For B.Tech. 2<sup>nd</sup> year under Lateral Entry Scheme (LEET)**

Have passed Diploma Course in Engineering/Technology of three years duration or more from State Board of Technical Education, Haryana or its equivalent Diploma Examination with at least 50% marks in the aggregate of all the Semesters.

The admissions to B.Tech. 1<sup>st</sup> year are made on the basis of inter-se merit of AIEEE-2009 in the respective category i.e. All India, Haryana Open, Haryana Reserved (SC/BC etc.).

**For further details please see Admission Brochure for B.E./B.Tech. Programmes hosted in <http://techeduhry.nic.in> or <http://hscs.in>**

**XI (b) Mention the minimum level of acceptance, if any.**

Pass in 10+2 examination from a recognized Board/University with Physics & Mathematics and one of the following subjects:

Chemistry, Bio-Technology, Computer Science & Biology.

**XI (c) Display marks scored in Test etc. and in aggregate for all candidates who were admitted.**

Please see para XIII-ii

**Item No I - XI must be given in information brochure and must be hosted as fixed content in the website of the Institution.**

**The Website must be dynamically updated with regard to XII-XV.**

**XII. APPLICATION FORM**

**Downloadable application form, with online submission possibilities.**

Please see the application form hosted as Appendix-II.

**XII(a) List of the candidates who joined within the date, vacancy position in each category before operation of waiting list.**

All Candidates mentioned in Sr. No. XIV (b) above joined and no seats left vacant. However, no NRI candidate applied against 15% seats reserved for them and so their seats remained vacant.

**XIII. INFORMATION ON INFRASTRUCTURE AND OTHER RESOURCES AVAILABLE****LIBRARY:****XIII(a) Number of Library books/Titles/Journals available (programme-wise)**

Sr. No.	Name of Discipline	No. of Titles	No. of Vol.	No. of Journals	
				National	International
1.	Mechanical	848	7146	08	
2.	ECE	1020	8780		
3.	Civil	302	2588		
4.	CSE	1092	10347		
5.	Applied Sc.	428	2710		
	<b>Total</b>	1546	8384		

**XIII(b) List of online National/International Journals subscribed.**

**XIII(c) E-Library facilities**

Digital Library with 50 mbps broad-band internet speed available.

**LABORATORY:**

For each Laboratory

**XIII(d) List of Major Equipment/Facilities**

List of Major Equipments/Facilities in Laboratories is given as under:-

**ELECTRONICS LAB**

<b>Sr. No.</b>	<b>Description</b>	<b>Qty.</b>
1.	H' Parameter of PNP Transistor in Common Emitter mode	4
2.	Transistor Characteristics Apparatus with Regulated Power supplies & four Analog Meters	4
3.	Two Stage RC Coupled Amplifier	4
4.	Study of Hartley Oscillator Kit	4
5.	Study of Phase Shift Oscillator	4
6.	Single stage Amp. Kit	4
7.	Operational Amplifiers Kit	4
8.	CRO 25/30 MHz	2
9.	CRO 20 MHz with Component Tester	1
10.	Function Generator 10 MHz	4
11.	FET Char. App. Kit	4
12.	Diode Rectifier & Filter Kit	4
13.	UJT Char. within but power supply	4
14.	MOSFET Char. Kit	4
15.	RC Phase Shift -ve feed back Amp.	4
16.	RC Phase Shift +ve feed back Amp.	2

**SEMICONDUCTOR DEVICES AND CIRCUIT LAB**

1.	Solar Cell Char. Kit	02
2.	Active Filters Kit	02
3.	SCR Char. Kit	02
4.	Push Pull Amplifier	02

**ANALOG COMMUNICATION LAB**

<b>Sr. No.</b>	<b>Name of Equipments</b>	<b>Qty</b>
1.	Balanced modulator/DSB-SC Modulation and demodulation kit	5
2.	Frequency modulation and demodulation kit	5
3.	Analog signal sampling and reconstruction kit	5
4.	PAM/PPM/PWM modulation and demodulation kit	5
5.	Active filters using OP-AMP Kit	5

6.	CRO (20 MHZ, dual trace)	5
7.	Function generator	3
8.	Digital Multi meter	3
9.	Study of twin T type notch filter using op-amps.	2

### DIGITAL ELECTRONICS LAB

Sr. No.	Name of Equipments	Qty
1.	3.5 digit digital multimeter	2
2.	Universal logic system trainer kit	2
3.	Logic gater using six TTL ICs trainer kit	4
4.	16-1 line multiplexer/demultiplexer	4
5.	Digital comapator trainer kit	4
6.	Flip flops trainer kit	4
7.	4-bit shift register trainer kit	4
8.	Encoder/decoder trainer kit	4
9.	4-bit counter(sync & async) trainer kit	4
10.	TTL IC characterestics trainer kit	4

### MICROPROCESSOR LAB

Sr. No.	Name of Equipments	Qty
1.	Microprocessor 8085 trainer kit	6
2.	Microprocessor 8086 trainer kit	6
3.	Module card for A/D	3
4.	Module card for D/A	3
5.	Module card for stepper motor	3
6.	Ultra violet eraser for EEPROMs	1

### DIGITAL COMMUNICATION LAB

Sr. No.	Name of Equipments	Qty
1.	CRO	2
2.	Function Generator	3
3.	Delta Modulation & De-Modulation kit	2
4.	Adaptive Delta modulation & de-modulation kit	2
5.	Pulse code modulation & de-modulation kit.	2
6.	TDM PAM modulation & de-modulation kit.	2
7.	Anlog fiber optic voice transmission demonstrator kit.	2
8.	Digital storage Oscilloscope.	1
9.	Amplitude modulation & de-modulation kit.	1
10.	Frequency modulation & de-modulation kit.	1
11.	Analog signal sampling & re-construction kit.	1
12.	PAM/PWM/PPM modulation & de-modulation kit.	1
13.	DSB/SSB AM receiver kit.	1
14.	Phase shift keying (psk) modulation and demodulatiion me 750	2
15.	Frequency shift keying (fsk) modulation and demodulatiion me 748	2

16.	Study of ift amplifier- me 607	2
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### LINEAR INTEGRATED CIRCUITS LAB

Sr. No.	Name of Equipments	Qty.
1.	Op-amp. As adder, subtractor, integrator & differentiator kit	2
2.	Op-Amp. As inverting & non-inverting amplifier kit.	2
3.	Linear wave shaping circuit (clipping & clamping, Integrator & differentiator) kit.	2
4.	Op-amp. As Schmitt trigger kit	2
5.	Op-amp. As V-I and C-V convertor kit	2
6.	Instrumentation amplifier kit	2
7.	Multivibrator trainer board (application of 555). Kit	2
8.	Active filters using op-amps kit	2
9.	Digital multimeter (Manual range)	2
10.	Application of Op-amp. Kit.	4
11.	Analog Lab trainer kit	2
12.	DC regulated power supply (dual output)	2
13.	Op-amp. Trainer board (bread board type) kit	2
14.	Voltage controlled Oscillator kit	2
15.	CRO 20Mhz dual trace	2
16.	Digital function generator	2

### ANALOG ELECTRONICS LAB

Sr. No.	Name of Equipments	Qty.
1.	two stage rc coupled amplifier – me 619	02
2.	study of phase shift oscillator – me 664a	02
3.	wein bridge oscillator using op-amp ic 741	02
4.	study of parity generator/checker- me 723	02
5.	4/8 bit digital to analog converter me 732	02
6.	DECADE COUNTER (USING IC 7490)	02
7.	CRO	01
8.	BREAD BOARD	05
9.	ELECTRONICS COMPONENTS	

### V.H.D.L. LAB/RESEARCH LAB

Sr. No.	Name of Equipments	Qty
1.	Universal FPGA/CPLD Development Board with USB Programming cable Xilinx FPGA XC 2550-5PQ208, Xilinx CPLD XC9572PC84	03
2.	Interfacing experimental modules:-	
3.	A). ADC/DAC interface board	03
4.	B). Traffic light study board	03
5.	C). Speed control using PWM for DC Motor	03
6.	D).Stepper Motor using PWM	03
7.	E). Relay buzzer card	03

**DIGITAL SIGNAL PROCESSING LAB**

<b>Sr. No.</b>	<b>Name of equipments</b>	<b>Qty</b>
1	DSP starter kit with TMS320C 6173 processor	01

**MINOR PROJECT LAB**

<b>Sr. No.</b>	<b>Name of equipments</b>	<b>Qty</b>
1	25watt. Soldering iron	15
2	Stripper	15
3	Cutter 0.5mm	15
4	Bread board	15
5	Tweezer	15
6	Digital 3 & ½ digit multimeter	4

**MAJOR PROJECT LAB**

<b>Sr. No.</b>	<b>Name of equipments</b>	<b>Qty</b>
1	Universal Handy programmer	01
2	PCB drill machine	01
3	Etching machine	01
4	DSO	10

**MICRO-WAVE LAB**

<b>Sr. No.</b>	<b>Name of equipments</b>	<b>Qty</b>
1	Klystron power supply ( Square & Saw Wave Digital readout )	02
2	Klystron mount	02
3	Klystron tube	02
4	Isolator	02
5	Frequency meter ( Direct reading )	03
6	Variable attenuator	03
7	Slotted section with probe carriage	02
8	Tunable probe	02
9	Detector mount with detector	03
10	Movable short	01
11	Matched termination	02
12	VSWR Meter Solid State	02
13	Stand	08
14	Slide Screw Tuner	01
15	Cooling fan	03
16	BNC Cable	01
17	Fixed attenuator ( 6 db )	01
18	Three port Circulator Y Type	01
19	E Plane tee	01
20	H Plane tee	01
21	Magic tee	01
22	Microwave Cavity	01

23	Gunn power supply ( Digital )	01
24	Gunn oscillator	01
25	Pin Modulator	01
26	M H D Coupler ( 3,10,20 db) Any One	02
27	Pyramidal horn ( Gain 16 db )	02
28	Radiation pattern turn table	02
29	Tripod stand	02

### ELECTRONICS MEASUREMENT LAB

Sr. No.	Name of Equipments	Qty.
1.	Maxwell inductance bridge	3
2.	Hay's bridge	3
3.	Schering bridge	3
4.	Desauty bridge	3
5.	Industrial kelvin double bridge	3
6.	B.H. curve apparatus	3
7.	Crompton potentiometer with accessories.	3
8.	Digital Insulation Tester	1
9.	Wein's frequency bridge	3
10	Calibration of single phase Energy meter using Energy Meter with Panel	1
11	CRO (20 Mhz)	1
12	LVDT Kit	2
13	Ammeter 2.5" 0-1A DC	10
14	Voltmeter 2.5" 0-15V DC	10
15	Ammeter 2.5" 0-1A AC	5
16	Voltmeter 2.5" 0-15V AC	5

### COMMUNICATION LAB (M.TECH)

Sr. No.	Name of Equipments	Qty
1.	Amplitude shift keying modulation & de-modulation	3
2.	Frequency shift keying modulation & de-modulation	3
3.	Phase shift keying modulation & de-modulation	3
4.	Spectrum analyser 1Ghz with tracking Generator	1

### ELECTRICAL MACHINE LAB

Sr. No.	Name of Equipments	Qty
5.	AC to DC Rectifier Power Supply	1

6.	Polarity and Ratio test of a Single Phase Transformer with complete panel	1
7.	To perform No Load & Block Rotor Test on 3-Phase Induction Motor with 3-phase variac and panel	1
8.	To obtain speed control load characteristics DC Shunt Motor with panel	1
9.	Cut view of DC machine (Working model) with 3-point starter	1
10.	To obtain load characteristics of a DC Shunt Generator with MG Set and Panel	1
11.	Phase Sequence indicator with protection	1
12.	Resistive Load Single Phase(20A)	1
13.	Variable Auto Transformer (Variac) 1-Phase	4
14.	Variable Auto Transformer (Variac) 3-Phase	2
15.	Transformer Single Phase(1KVA)	3
16.	Digital Multi-meter	7
17.	Portable Ammeter	10
18.	Portable Voltmeter	7
19.	Wattmeter	4
20.	Rheostat	4
21.	Inductance Box Decade	2
22.	Resistance Box Decade	2
23.	Paralleling Switch	1



**ELECTRICAL TECHNOLOGY LAB**

<b>Sr. No.</b>	<b>Name of Equipments</b>	<b>Qty</b>
1.	AC to DC Rectifier Power Supply	1
2.	Polarity and Ratio test of a Single Phase Transformer with complete panel	1
3.	Measurement of Power in a 3-phase system by Two Wattmeter Method with load and panel	1
4.	To obtain speed control load characteristics DC Shunt Motor with panel	1
5.	Measurement of Energy in single phase system using Energy Meter with Panel	1
6.	Kit for Freq. Response of RLC Ckt. Trainer	3
7.	Kit for Thevenin's & Norton theorems Trainer	3
8.	KCL & KVL Trainer Kit	2
9.	Super Position & Maximum Power transfer Kit	2
10	Function Generator (5 MHz)	2
11	Bread Board Trainer with dc Power Supply	7
12	Resistive Load Single Phase(20A)	1
13	Variable Auto Transformer (Variac) 1-Phase	3
14	Variable Auto Transformer (Variac) 3-Phase	2
15	Transformer Single Phase(1KVA)	3
16	Capacitance Box	2
17	Inductance Box	2
18	Resistance Box	2
19	Digital Multi-meter	7
20	LCR Q Meter	1
21	Portable Ammeter	10
22	Portable Voltmeter	7
23	Wattmeter	4
24	Rheostat	4
25	AC Milli Voltmeter	1

**COMPUTATIONAL TECHNIQUE**

Sr. No.	Peripherals/Software	Qty
1.	Computer Terminals	20
2.	Printers	2
3.	UPS 7.5 Kva	1

**COMMUNICATION LAB - PG**

Sr. No.	Name of Equipment	Qty
1.	Pulse Code Modulation and Demodulation	5
2.	Frequency Shift Keying Modulation & Demodulation	5
3.	Amplitude Shift Keying Modulation & Demodulation	5
4.	Phase Shift Keying Modulation & Demodulation	5
5.	QPSK Modulation & Demodulation Techniques	5
6.	Amplitude Modulation & Demodulation	5
7.	Frequency Modulation and Demodulation	5
8.	Phase Modulation and Demodulation	5
9.	QAM Modulation & Demodulation	5

**PHYSICS LAB:**

Sr. No.	Description	Qty.
1.	Newton's Ring Apparatus	6
2.	Spectrometer with Wooden Box & Grating	3
3.	Resolving Power of Telescope	3
4.	Polarimeter Pri-Quality	4
5.	De-Sautys Bridge	4
6.	Frequency of A.C. main app..	2
7.	Resistance of Galvanometer by P.O. Box	4
8.	Carry Foster Bridge with Pencil jocky, resistance coil equal	4
9.	Optical Bench 1 meter long with right & upright	2
10.	Resistance Box 1 to 5000 $\Omega$	14
11.	Optical Bench with Fresnel's Pri-Prism Assembly	3

**CHEMISTRY LAB:-**

Sr. No.	Description	Qty.
1.	Hot Air Oven	1
2.	Analytical Balance	2
3.	Digital Balance	2
4.	Conductivity Meter	2
5.	pH Meter	2

6.	Hot Plates	4
7.	Red Wood Viscometer No. 1	1
8.	Red Wood viscometer No. 2	1
9.	Flash Point Apparatus	1
10.	Spectrophotometer	1
11.	Deionizer	1
12.	Water Bath	3
13.	Water Distillation Apparatus (S.S.)	1
14.	Abel's Flash Point Apparatus	1
15.	Burette Stands	40
16.	Barranger Balance	1
17.	Kipp's Apparatus	1
18.	Magnetic Stirrer	1
19.	Turbidity Meter	1
20.	Digital Calorimeter	1
21.	Vaccum Pump	1
22.	Stop Watches	6

#### **ELECTRICAL LAB:-**

<b>Sr. No.</b>	<b>Description</b>	<b>Qty.</b>
1.	AC to DC Power Supply 30 A, 250 V DC	1
2.	Polarity and ratio test of a single phase transformer with panel	1
3.	To perform no load and block motor test on 3 phase induction motor with panel	1
4.	Measurement of power in a 3 phase system by two wattmeter method with panel & 3 phase resistance load traveler	1
5.	To obtain speed control & load characteristics of a DC shunt motor with panel	1
6.	Calibration and measurement of energy in a single phase induction type energy meter with panel	1
7.	To obtain load characteristics of a DC shunt Generator with MG set & panel	1
8.	Frequency response of a series & parallel RLC ckt./LCR Resonance app. Kit (ME 507D)	3
9.	Verification of Thevinin & Norton Theorem Kit	3
10.	A.C. Mill voltmeter	1
11.	Verification of KCI & KVI (ME 561D)	2
12.	3.75 Digital Multimeter with Frequency Counter of 30 mm	8
13.	LCR $\Phi$ Meter (Bridge Type)	1
14.	MI Portable Ammeter 0-25 A Ac/Dc	2
15.	MI Portable Ammeter 0-5 A Ac/Dc	1
16.	MI Portable 0-300v/600v Voltmeter	1

17.	MC Portable Ammeter	1
18.	MC Portable Voltmeter 0-300 v Dc	1
19.	Portable Wattmeter UPF	1
20.	MC Portable Voltmeter 0-300v Dc	1
21.	Rheostat 500 ohm/1.2 amp	1
22.	Rheostat 100 $\Omega$ /1.8 amp	1
23.	Network Theorems ME 590D-I	2
24.	CRO 20 MHz, Dual Channel, 2 Trace (ME 3020)	1
25.	Digital Function Generator 5 MHz (ME 957)	2
26.	Ammeter AC (Portable)	04+02
27.	Voltmeter AC (Portable)	06
28.	Capacitance Box Decade	01
29.	Inductance Box Decade	01
30.	Resistance Box Decade	01
31.	Resistive Load	01
32.	Variable Auto Transformer(Variac)	03
33.	Variable Auto Transformer (Variac)	01
34.	Wattmeter (Portable)	01+01
35.	Cut view of DC machine (Working model) with 3-Point starter	01
36.	Transformer	02
37.	Bread Board with dc Power Supply	03
38.	Paralleling Switch	01
39.	Phase Sequence indicator with protection	01

### **OOPS LAB**

1.	Computer terminals	33
2.	Windows XP for internet surfing	Dell 330
3.	RAM	1gb
4.	Hard Disk	160 GB

### **IF LAB**

1.	Computer terminals	31
2.	Windows XP for internet surfing	Dell Vostro
3.	RAM	1gb
4.	Hard Disk	160 GB

### **Major Project LAB**

1.	Computer terminals	41
2.	Windows XP for internet surfing	Dell 380

3.	RAM	1gb
4.	Hard Disk	320 GB

**CST LAB**

1.	Computer terminals	41
2.	Windows XP for internet surfing	Dell 380
3.	RAM	1gb
4.	Hard Disk	320 GB

**WT LAB**

1.	Computer terminals	32
2.	Windows XP for internet surfing	Dell 380
3.	RAM	1gb
4.	Hard Disk	160 GB

**SE LAB**

1.	Computer terminals	30
2.	Windows XP for internet surfing	Dell 380
3.	RAM	1gb
4.	Hard Disk	160 GB

**EIT LAB**

1.	Computer terminals	33
2.	Windows XP for internet surfing	Dell 330
3.	RAM	1gb
4.	Hard Disk	160 GB

**MAPPD LAB**

1.	Computer terminals	31
2.	Windows XP for internet surfing	Dell 380
3.	RAM	1gb
4.	Hard Disk	320 GB

**MECHANICAL ENGG. LABS****1. Steam Generation And Power Lab**

Sr. No.	Name Of The Equipment	Quantity
1	Model Of Four Stroke Diesel Engine	1
2	Model Of Four Stroke Petrol Engine	1
3	Model Of Two Stroke Petrol Engine	1
4	Model Of Two Stroke Diesel Engine	1

5	Cochran Boiler	1
6	Nestler Boiler	1
7	Lancashire Boiler	1
8	Babcock And Wilcox Boiler	1
9	Locomotive Boiler	1
10	Water Guage	1
11	Pressure Guage	1
12	Air Preheater	1
13	Spring Loaded Safety Valve	1
14	Dead Weight Safety Valve	1
15	Lever Safety Valve	1
16	Steam Stop Valve	1
17	Fusible Plug	1
18	Blow Off Cock	1
19	Feed Check Valve	1

## 2. Mechanical Vibration Lab

1	Universal Vibrator Test Rig 1	1
2	Universal Vibrator Test Rig 2	1
3	Universal Vibrator Appratus	1
4	General Bearing Appratus	1
5	Simple Pendulam	1
6	Compound Pendulam	1

## 3. Fluid Machines Lab

1	Hydraulic Ram	1
2	Francis Turbine	1
3	Pelton Turbine	1
4	Kaplan Turbine	1
5	Reciprocating Pump	1
6	Gear Pump	1
7	Centrifugal Pump	1
8	Impact Of Jet Machine	1
9	Freee Vortex Flow	1
10	Forced Vortex Flow	1
11	Orifice And Venturimeter Appratus	1
12	Loss Of Head Due To Minor And Major Losses	1
13	Reynould Number Appratus	1
14	Discharge Over Notches Appratus	1
15	Orifice And Mouthpiece Appratus	1
16	Bernoullis Apparatus	1
17	Meta Centric Height Appratus	1

## 4. ICGT Lab

1	Four Stroke Single Cylinder Diesel Engine	1
2	Four Stroke Four Cylinder Diesel Engine	1
3	Four Stroke Four Cylinder Petrol Engine	1
4	Centrifugal Blower Test Rig	1
5	Double Stage Air Compressor Test Rig	1

**5. MOS Lab**

1	Universal Testing Machine	1
2	Fatigue Testing Machine	1
3	Izod Impact Test	1
4	Charpy Impact Test	1
5	Hardness Testing Machine	1
6	Torsion Testing Machine	1

**6. Material Science Lab**

1	Muffle Furnace	1
2	Auto Collimator	1
3	Jominey And Quenching Machine	1
4	Microstructure Specimen Set	1

**7. K.O.M Lab**

1	Cam Analysis Apparatus	1
2	Plane Friction Apparatus	1
3	Bell Crank Lever Apparatus	1
4	Horizontal Shaft Apparatus	1
5	Hook Coupling Double	1
6	Reciprocating Engine Mechanism	1
7	Oscillating Cylinder Mechanism	1
8	Withworth Quick Return Mechanism	1
9	Crank Ans Slotted Lever Mechanism	1
10	Double Slide Mechanism	1
11	Single Slide Mechanism	1
12	Screw Jack Apparatus	1
13	Combined Compression And Expansion Of Spring Apparatus	1

**8. D.O.M Lab**

1	Coriollis Component Of Acceleration Apparatus	1
2	Whirling Speed Of Shafts	1
3	Universal Governor Apparatus	1
4	Static And Dynamic Balancing Apparatus	1
5	Epicyclic Gear Train Apparatus	1
6	Motorized Gyroscopic Apparatus	1
7	Flywheel Apparatus	1

**9. R.A.C Lab**

1	Walk In Cooler	1
2	Water Cooler Test Rig	1
3	Ice Plant	1
4	Refrigeration Test Rig.	1
5	Air Conditioning Test Rig	1
6	Cooling Tower Test Rig	1
7	Rac Sectional Cut Model	1
8	Absorption Refrigeration System	1

9	Types Of Comperssor	1
	( A ) Rotary Compressor	1
	( B ) Hermatically Sealed Compressor	1
	( C ) Open Type Reciprocating Compressor	1
	( D ) Semi Sealed Compressor	1
	( E )Automatic A/C Compressor With Clutch	1

**10. M&C Lab**

1	Rtd Trainer Kit	1
2	Temperature Sensor Kit	1
3	Pressure Measurement Using Strain Gauge	1
4	Inductive Pick Up	1
5	Strain Gauge Trainer Kit With Cantilever Beam	1
6	Load Cell Trainer Kit	1
7	Lvdt	1
8	Ldr Characteristics Apparatus	1

**11.Ht Lab**

1	Forced Convection Equipment	1
2	Composite Wall Apparatus	1
3	Pin Fin Apparatus	1
4	Shell And Tube Heat Exchanger	1
5	Thermal Conductivity Of Liquid Apparatus	1
6	Thermal Conductivity Of Metal Rod Apparatus	I
7	Thermal Conductivity Of Insulating Powder Apparatus	1

**CIVIL ENGG. LABS****1. SOIL MECHANICS LAB**

Sr. No.	Description	Qty.
1	Oven	1
2	Specific gravity bottles	6
3	sieves set (brass)	1
4	Sieves set (GI)	1
5	Liquid limit	2
6	Plastic limit	2
7	Sand replacement	1
8	Core cutter with asecciores	1
9	Permeability test	1
10	Unconfined compression testing machine	1
11	Direct shear test	1
12	Granular soil sample	NA (CONSUMABLE)
13	Triaxial shear test	1
14	Proctor's compaction test	1
15	Enamel tray	6
16	Auger	1
17	TOOLS (TROWEL, SPATULA, KNIFE )	ONE EACH

**2. TRANSPORTATION LAB**



1	Aggregate impact test	1
2	Los angels abrasion test machine	1
3	Devel attrition test	1
4	Dorry's abrasion test	1
5	Crushing strength of aggregate appratus	1
6	Pentitration test of bitumen apparatus	1
7	Ductility test of bitumetrn appratues	1
8	Viscosity test of bitumen apprauts	1
9	Sofetning point test of bitumen appratus	1
10	Flash and fire point test of bitumen	1
11	Flakiness and elongation appratus	1
12	Specific gravity and water absorption test on aggregate appratus	1
13	Specific gravity of bitumen appratus	1
14	Benkelmen's beam	1
15	Proportioning of aggregate test appratus	1
16	Marshel stability appratus (with acessories)	1
17	Stripping test on aggregate appratus	1
18	Determination of bitumen content	1
19	CBR test machine( with acessories )	1
24	Oven (60x60 )	1
25	water bath	1
26	Heater	1
27	China dish	4
28	Wattman paper	1 RIM
29	Tray (20x30cm )	6
30	Sieve set (GI) 5mm to 80 mm	1
	Sieve set (brass ) 75 micron to 4.80 micron	1
31	Tonge	3
32	Gloves for oven	1 pair
33	CBR Muld (6"x12"	9

### 3. ENVIRONMETAL ENGG. LAB (chemistry lab)

1	PH value appratus	1
2	Tubidity appratus (digital and mannual)	1
3	Acidity appratus	1
4	Alkalinity appratus	1
5	Chlorine requierment test appratus	1
6	TDS and dissolevd test appratus	1
7	Chloride concentration test appratus	1
8	Sulphate concenration content appratus	1
9	Volatile and fixed solid in a sewage sample	1
10	Oil and grease in sewage sample test appratus	1
11	B.O.D of sewage sample appratus	1
12	C.O.Dof sewage sample appratus	1
13	T.O.C of sewage sample appratus	1
14	Incubator (muffle furnance)	1
15	Fecal count of sewage sample appratus	1
16	Microsocpe	NA

### 4. GEOTECHNOLOGY LAB

1	Shrinkage limit apparatus with accessories (Without Mercury)	1
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2	Relative density apparatus with accessories.	1
3	Consolidation test apparatus with accessories.	1
4	SPT (standard penetration test) apparatus with accessories.	1
5	Dynamic cone penetration test with accessories.	1
6	Plate load test with accessories with accessories.	1

### 5. Concrete lab

1	Vicat apparatus with accessories with accessories.	2
2	Sieve 90 micron with accessories.	1
3	Blaine's air apparatus with accessories.	1
4	Le chatlier apparatus with accessories.	2
5	Compressive strength machine (200 ton electrically operated).	1
	(a) Fitted with Digital Load Monitor	NA
	(b) Fitted with Single Pressure Gauge	YES
6	Heat and hydration of cement apparatus with accessories.	1
7	Slump test apparatus with accessories.	2
8	Compaction factor apparatus with accessories.	1
9	Flow table apparatus with accessories.	1
10	Cubes (150mm*150*150).	9
11	Cylinder mould (150mm dia*300mm height).	9
12	Flexure test on concrete with accessories with accessories.	1
	(a) Flexure Testing Machine Cap. 100kN	YES
	(b) Beam Mould 150 x 150 x 700mm	NA
13	Nondestructive testing apparatus (Rebound hammer's) with accessories.	1
	(a) Superior Quality	YES
	(b) Routine Quality	YES
15	Bond strength between concrete and steel bar by pull out test with accessories.	1

### 6. Surveying I&II lab

1	ranging rods	50
2	staff	7
3	total station	1
4	digital theodolite	1
5	theodolite	6
6	AUTOLEVEL WITH STANDS	6
7	leveling	2
8	tilting level	2
9	stands for theodolite	6
10	TANGENT CLINOMETER	1
11	Plane table WITH accessories	6
12	compass	2
13	prismatic compass	6
14	TAPE 30 M METALLIC	6
15	OPTICAL SQUARE	2
16	LINE RANGER	2
17	CHAIN 30 M	6

18	MICROMETER	1
19	ARROWS	50
20	SPRING BALANCE	2
21	THERMOMETER	4
22	SURVEY UMBRELLA	6
23	VERNIER CALLIPER	1
24	signal stations	6

### 7. Structure I&II lab

1	coloum and strut	1
2	max well therom	1
3	redudant frame	1
4	three hinged arch	1
5	two hinged arch	1
6	suspension bridge	1
7	coupled beam app.	1
8	truss	1
9	portal frame	1
10	pin jointed DEFLECTED BEAM	1
11	CURVED MEMBERS	1
12	COMPRESSIVE TESTING MACHINE (DIGITAL)	COMBINED WITH CT LAB
13	unsymmtrical bending	1

### 8. Flud Mechanic I&II lab

1	Metacentric height apparatus	1
2	Bernoulli's theorem apparatus	1
3	Orificemeter apparatus	1
4	Venturimeter apparatus	1
5	Centrifugal pump.	1
6	Orifice apparatus	1
7	Notch apparatus	1
8	Mouth piece apparatus	1
9	Boundary layer apparatus	1
10	Open channel apparatus	1
11	Momentum characteristics apparatus	1
12	Vortex apparatus	1
13	Stoke's law app.	1
14	Cavitation in pipe flow.	1
15	Reynold's number apparatus	1
16	Broad crested weir apparatus	1
17	Hydraulic jump apparatus	1
18	Head loss apparatus	1

### XIII(e) List of Experimental Setup

#### COMPUTING FACILITIES:

#### ❖ Number and Configuration of Systems

100 Dell 330 Intel Pentium (R) Dual Core CPU, E2160 @1.80 GHz, 1 GB of RAM, 80 GB Hard Disk, 17"

TFT

100 Dell 380 Intel Pentium (R) Dual Core CPU, E5800 @3.20 GHz, 1 GB of RAM, 320 GB Hard Disk, 18" TFT

60 HP Desktop Model No. E5300, Intel Dual Core 2.5 Ghz, 1 GB RAM, 160 GB HDD, 18.5 TFT

100 ACER Desktop Model No. E5500, Intel Dual Core 2.8 Ghz, 1 GB RAM, 160 GB HDD, 18.5 TFT

25 DELLVostro Desktop Model No. G630, Intel Dual Core 2.7 Ghz, 2GB RAM, 500 GB HDD, 18.5 TFT

70 HP Dreamscreen Desktop Model No. E5200, Intel Atom 2 Ghz, 2 GB RAM, 160 GB HDD, 18.5 TFT

60 assembled Desktop, core 2 duo 2.66 Ghz, 2 GB RAM, 320 GB HDD, 18.5 TFT

70 assembled Desktop Core duo 2.66 Ghz, 2 GB RAM, 500 GB HDD, 18.5 TFT

❖ **Total number of systems connected by LAN**

515

❖ **Total number of systems connected to WAN**

03

❖ **Internet bandwidth**

50 mbps.

❖ **Major software packages available**

**System Software:** Windows XP, Linux Red Hat, Fedora Core 4, Ubuntu 16.04

**Application Software:** Turbo C++, MS-Visual Studio, MS-Office, MS SQL, Oracle, Anti Virus

❖ **Special purpose facilities available**

All the Labs are air-conditioned. Instructional area in each Lab is segregated. Building is air-conditioned.

**WORKSHOP:**

The Workshop consists of five shops i.e. Machine, Carpentry & Pattern Making, Fitting, Foundry & Welding Shops, which are fully equipped with latest machines/equipments, as detailed below:

**1. MACHINE SHOP (Manufacturing Processes Workshop)**

Sr. No.	Description	Qty.
1	Lathe Machine	5
2	Milling Machine	1
3	Drilling Machine	1
4	Bench Grinder	1
5	Shaper	1
6	Surface Grinder	1
7	True Check	1
8	Hydraulic Power Hacksaw	1
9	Hydraulic Semi Power Hacksaw	1
10	Allen Key Set	1
11	Bevel Protector	1
12	Dial Test Indicator Without Stand	1
13	Dial Test Indicator With Stand	1
14	Boring Bar	1
15	Calliper Inside	4
16	Calliper Outside	2
17	Calliper Outside	2
18	Drill Chuck	1

19	End Mill Cutter	1
20	File Flat 12'	2
21	File Flat 10"	2
22	Granide Plate	1
23	Drip Plier	1
24	Hammer 1 Kg	1
25	Hammer 500 Gm	1
26	Hand Hacksaw Fixed Frame	1
27	Knurling Tool	5
28	Magnetise V Block	1
29	Marking Block Universal 1	1
30	Oil Cane	2
31	Parting Tool Holder	4
32	Parting Tool Holder 3/4"	4
33	Pipe Wrench 12"	1
34	Plier 8"	1
35	Portable Drill Machine	1
36	Revolving Centre	5
37	Ring Spanner Set	1
38	Screw Driver 12"	1
39	Scriber	1
40	Side And Face Cutter	1
41	Sleeve 2-3	1
42	Sleeve 3-4	1
43	Die With Handle 1/2"	1
44	Radius Gauge	2
45	Grease Gun With Nipple	1
46	Revolving Centre	1
47	Vernier Calliper	5
48	Number Punch 3/16"	1
49	Letter Punch 3/16"	1
50	Drill Bit	1
51	Tool Holder	8
52	Dog Carrier	2
53	Thread Gauge	2
54	Allen Key Set In Inches	1
55	Tool Holder 1/2"	6
56	Cross Pean Hammer 500gm	1
57	Ball Pean Hammer 500 Gm	1
58	Surface Gauge 300mm	4
59	Micrometer 25-50mm	1
60	Spanner Set Off Set Open End	1
61	Vernier Calliper 300mm	1
62	Try Square 6"	4
63	Drill M/L Heavy	1
64	Crompton Motor 2hp	1
65	Milling M/L Vice 4",6"	1
66	End Mill Cutter	1
67	Slitting Saw	1
68	Side Face Cutter	1
69	Key Way Cutter	1
70	Angle Cutter	2
71	Gear Dp Cutter	7
72	Collect	1
73	Side Face Cutter	1
74	Drill Chuck	1
75	Slaves Set	2
76	Angle Plate	1

77	Vernier Height Gauge	1
78	Anvil 50kg	1
79	Helical Cutter	1

## 2. CARPENTRY SHOP (Manufacturing Processes Workshop)

1	Auger wooden drill	1
2	Bevel Square	2
3	Campus divider	2
4	Clew Hammer	2
5	Cramp	1
6	Carpentry Vice	12
7	Drill Machine	1
8	Drill vice	1
9	Electric Planner	1
10	Fermer Chisel (1/2")	12
11	Fermer Chisel (3/4")	12
12	Fermer Chisel (1")	12
13	C Clamp (100 mm)	2
14	Hand Saw (16")	12
15	Hand Saw (12")	12
16	Hammer 500 gm	3
17	Jack Planner No 5	6
18	Jack Planner No 4	6
19	Pincer	1
20	Mortise Chisel (1/4")	12
21	Key Hole Saw	1
22	Mortise Chisel (3/8")	12
23	Mallet Wooden	12
24	Marking Gauge	6
25	Rip saw 10"	10
26	Ratched Brass Drill	1
27	Robbit Planner	1
28	Sheet Cutter 6"	2
29	Scale 12"	12
30	Scale 24"	6
31	Screw Driver 516 No	1
32	Spoke Shape Planner	1
33	Try Square 10"	6
34	Try Square 8"	6
35	Tap 2m	1
36	Water Stone	2
37	Wooden Rasp Cut File	12

## 3. FITTING SHOP (Manufacturing Processes Workshop)

1	Caliper Inside 6"	6
2	Caliper Outside 6"	6
3	Center Punch	3
4	Chisel Flat	4
5	Die Stake 12,8	EACH ONE
6	Die Handle Set	1
7	Divider	4

8	Flat File 12"	10
9	Flat File 10"	12
10	Flat File 6"	12
11	File Half Round 10"	12
12	BALL PIN HAMMER 400 Gm	6
13	HAMMER CROSS PIN 250 Gm	2
14	Hand Hack Saw Adjustable	2
15	Hand Hack Saw Fixed	12
16	Hand Wise	1
17	Knife Edge File	4
18	Letter Punch 3/16"	1 SET
19	Surface /Marking Guage	1
20	Nose Plier	1
21	Number Punch 0-9	1
22	Odd Leg Clipper	2
23	Oil Cane	1
24	Pipe Wrench 14"	1
25	Plier 8"	1
26	Ring Spanner Set	1 SET
27	Scriber	4
28	Screw Divider 12"	2
29	Screw Divider P-4 E	2
30	Square File 10"	12
31	Steel Rule 12"	12
32	Tap Handle	4
33	Tap Set 1/2"	4 SET
34	Tap Set 1/4"	4 SET
35	TAP SET 8 Mm	2 SET
36	TAP SET 12 Mm	2 SET
37	Filler Guage	1
38	File Flat Smooth 12"	12
39	VERNIER CALIPER 300 Mm	2
40	MICROMETER 0-25 Mm	1
41	Try Square 6"	8

#### 4. FOUNDRY SHOP (Manufacturing Processes Workshop)

1	Crucible Clamp	1
2	Crucible Handle	1
3	File 10" Flat	6
4	File 6" Flat	6
5	File 8" Flat	6
6	File 6" Half Round	6
7	File 8" Half Round	6
8	File 10" Half Round	6
9	File 8" Half Round	6
10	Gurmaly Iron	12
11	Hack Saw Iron	4
12	Moulding Box	24
13	Scale 12"	2
14	Trawl Karni Big	12

15	Trawl Karni Small	12
16	Vent Wire	16
17	Slick	10
18	Try Square	6
19	Try Square	6
20	Long Tong	1
21	Crucible 25 No.	2
22	Electrical Blower 50 No.	1
23	Bench Vice 04 No.	36
24	Moulding Seats No. 12	12
25	Lifter	10

### 5. WELDING SHOP (Manufacturing Processes Workshop)

1	Adjustable Hack Saw	1
2	Center Punch	2
3	Cutting Torch	1
4	Cylinder Key	2
5	Chipping Hammer	6
6	D A Regulator	1
7	Flat File 12"	12
8	Gas Lighter	2
9	Hammer	2
10	Hand Hack Saw	12
11	Hose Pipe	12 METER
12	Leather Apron	10
13	Leather Gloves	10
14	Letter Punch Set 3/16"	1
15	Noozle	1
16	Number Punch Set 3/16"	1
17	Oxygen Regulator	1
18	Pipe Wrench	1
19	Scale 12"	6
20	Scriber	4
21	Tongs	5
22	Try Square 8"	2
23	Tape	2
24	Vermier Caliper 300mm	1
25	Welding Set	1
26	Welding Torch	1
27	Welding Screen	10
28	Welding Holder	2
29	Welding Cable	10 Mt.
30	Wire Brush	10
31	Tig Welding Set	1
32	Mig Welding Set	1

#### ❖ List of facilities available.

Air-Conditioned Building, hostel facilities (separately for boys & girls), Internet, Library facility available after office hours during Exam. days, conference hall equipped with LCD Projector, play grounds, bus facilities from nearby major towns, Wi-fi Campus surrounded by lush green fields free from pollution.



**❖ Games and Sports Facilities**

The Institute has created adequate infrastructure for games and the students will be encouraged to participate in various sports activities. Indoor games facilities are also available in the Campus.

**❖ Extra Curriculum Activities**

Extra Curriculum Activities are arranged for the students through out the year for over-all development of their personality and students' clubs created.

**❖ Soft Skill Development Facilities**

The Institute provides Soft Skill development facility to the students by way of group discussions & seminars with the help of audio-visual aids to help the students to refine and improve their communication skills.

**Teaching Learning process****❖ Curricula and syllabi for each of the programmes as approved by the University.**

The Institute follows the Scheme of Examination and the syllabi prescribed by the Kurukshetra University.

**❖ Academic Calendar of the University 2021-22**



**KURUKSHETRA UNIVERSITY KURUKSHETRA**  
(Established by the State Legislature Act XII of 1956)  
(A<sup>+</sup> Grade, NAAC Accredited)

**NOTIFICATION**

In continuation to this office order, No. ACR-2/11(i)/21/16941-17010 dated 07.09.2021, it is informed that keeping in view the revised instructions of the AICTE, the Hon'ble Vice-Chancellor has approved the revised Schedule of Academic Calendar to be observed by all the Engg. Colleges/Technical Institutions maintained/affiliated to Kurukshetra University for newly admitted UG first year students only, for the Academic Session 2021-22, as under:

EVENT	ODD SEMESTER	EVEN SEMESTER
Class Teaching	Last working day of first year classes: extended upto 28.02.2022 (in continuation with the earlier notification vide order, No. ACR-2/11(i)/21/16941-17010 dated 07.09.2021 & also keeping in view of AICTE subsequent revised scheduling)	16.03.2022 to 06.07.2022
Practical Exams.	02.03.2022 to 05.03.2022	07.07.2022 to 12.07.2022
Theory Exams.	07.03.2022 to 14.03.2022	14.07.2022 to 21.07.2022
Uploading of Marks by Institutes	02.03.2022 to 07.03.2022	07.07.2022 to 14.07.2022

**SESSIONAL EXAMINATION SCHEDULE (Centralized)**

EVENT	ODD SEMESTER	EVEN SEMESTER
Sessional-I	23 <sup>rd</sup> to 24 <sup>th</sup> Dec. 2021	6 <sup>th</sup> to 7 <sup>th</sup> May, 2022
Sessional-II	24 <sup>th</sup> to 25 <sup>th</sup> Jan. 2022	6 <sup>th</sup> to 7 <sup>th</sup> June 2022
Sessional-III	26 <sup>th</sup> & 28 <sup>th</sup> Feb., 2022	5 <sup>th</sup> to 6 <sup>th</sup> July, 2022
Display of Sessional Test Sheets/Marks to Students		Within a week, just after the date of last sessional Exam.

**Commencement of next academic session: w.e.f. 16.08.2022**

- Note : 1. The classes in UG/PG courses will be engaged in online/offline mode as per situation.
2. If the number of teaching/working days for any class falls less than 180 days (approx. 90 days in each semester) in the academic session 2021-22 due to some unforeseen reasons, it would be the responsibility of each Department/Institute/College to make good the loss by arranging extra classes (even on holidays) as & when required.
3. Further updates in the academic calendar would be incorporated as per need and notified from time to time w.r.t. the subsequent guidelines issued by the competent authority i.e. AICTE/State Govt.

P.T.O.

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4. As far as students 2<sup>nd</sup>, 3<sup>rd</sup> & final years are concerned, they will adhere to the earlier academic calendar notification i.e. vide Endst. no. No. ACR-2/11(i)/21/16941-17010 dated 07.09.2021 in which their odd semester exams are stipulated to be started w.e.f. 04.02.2022.
5. The students must adhere to the fulfillment of minimum attendance conditions regarding attending the classes.

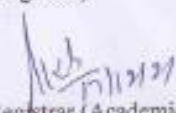
REGISTRAR

Endst.No.ACR-2/11(i)/21/ 23354-470

Dated 17.12.2021

Copy of the above is forwarded to the following for information and necessary action:

1. Dean Academic Affairs, KUK.
2. Dean, Faculty of Engg. & Tech./Director, UIET, KUK.
3. Dean of Colleges with the request to inform all the Principals/Directors of the Engg. Colleges/Institutes affiliated to K.U., Kurukshetra.
4. Chairperson, Department of Instrumentation, KUK.
5. Controller of Examinations-I & II, KUK.
6. All Principals/Director of the Engg. Colleges/Institutes affiliated to K.U., Kurukshetra.
7. Director, IT Cell KUK with the request to get uploaded the same on the University Website.
8. Assistant Registrar (Estt.T.), KUK.
9. Assistant Registrar (Accounts), KUK.
10. OSD to the Vice-Chancellor, KUK (for kind information of the Hon'ble Vice-Chancellor).
11. Superintendent O/o the Registrar, KUK (for kind information of the Registrar).
12. Supdt. (Colleges/Conduct/Planning/Fee Section), KUK.

  
 Deputy Registrar (Academic)  
 for Registrar