MANDATORY DISCLOSURE

1.	Name & Address of the Institution	JIMS ENGINEERING MANAGEMENT TECHNICAL CAMUS (JEMTEC) 48/4, Knowledge Park III, Greater Noida Uttar Pradesh-201306 Telephone: 0120-3819700/01/04/05 Website Address: www.jimsgn.org E-Mail: info@jimsgn.org
2.	Name & Address of the Society/Trust & Chairman of the Society/Trust Registration No. of Society/Trust: Telephone No: Website Address: E-Mail:	Jagannath Gupta Memorial Educational Society H-2/1, Model Town, Part-3, New Delhi-110009 Dr. Amit Gupta, Secretary Society S/16165 of 1985 Society 011-26292074 www.jagannath.org chairman@jagannath.org
3.	Name & Address of the Director/Principal of the Institute:	Prof. R.K.Raghuwanshi Jims Engineering Management Technical Campus (JEMTEC) 48/4, Knowledge Park III, Greater Noida Uttar Pradesh-201306 Telephone: 0120-3819700/01/04/05 E-Mail: director.gn@jimsgn.org
4.	Affiliated to GGSIPU since:	

B.Tech Program	2013
BA LLB	2014
B.Ed.	2015
BBA LLB	2015
BCA	2015
BBA	2015
B.Com	2018

5. Details of Existing Programs

Sl. No.	Existing Programmes	Detail of Intake & Students Admitted during the last two Academic Years			
		Academic Session 2017-2018		Academic Session 2018-2019	
		Intake	Admitted	Intake	Admitted
1	B.Tech (Civil)	60	38	60	28
2	B.Tech (ME)	60	52	60	51
3	B.Tech (CSE)	60	59	60	60
4	B.Tech (EE)	60	14	60	25
5	B.Tech (ECE)	60	59	60	55
6	BA.LLB	120	118	120	120
7	BBA.LLB	120	119	120	117
8	BBA	120	98	120	120
9	BCA	60	50	60	55
10	B.Ed	100	100	100	100
11	B.Com	**Started in 2018**		60	42
Total Admission		**820**	**707 (86%)**	**880**	**773 (94%)**

6. **Status of Land**

A	**Land**	
(i)	Area of Land	**21837** sq.mtrs.
(ii)	Ownership of land (Whether rented/leased/freehold)	Jagannath Gupta Memorial Education Society Leased
(iii)	Prescribed Land use (whether conforming / non-conforming to Master Plan)	Institutional conforming
(iv)	Land use Certificate with Registration No., Date & Authority	Letter No: Prop./Inst./2006/1672 , Date : 10.02.2006 Greater Noida Industrial Development Authority
B	**Building**	
(i)	**Total Built-up area (in Sq** Meters)	**20021.35**
(iii)	FAR Achieved (Built up area available per student as against prescribed by the University/Govt. Statutory	130%

	Body	Program	Area
(iv)	Total Built up area required as per norms for all programmes (Sqmtr./Student)	Law	1080 x 4.50 = 4860
		BBA	360 x 4.25 = 1530
		Engineering	1200 x 7.60 = 9122
		B.Ed	200 x 10.00 = 2000
		B.Com (H)	60 x 4.25 = 255
		BCA	180 x 4.25 = 765
(v)	Sanctioned Building Plan from DDA / MCD / Govt. body	Greater Noida	Industrial Development Authority

C	**Specifications of Accommodation**	No.	Size (in Sq Mtrs)
(i)	Number of class/tutorial rooms	51	3304
(ii)	Drawing Halls/Conference Room/Seminar Hall	2	199.50
(iii)	Laboratories (give details)	40	2700
(iv)	Audio Visual Laboratories	1	67.50
(v)	Library	03	780
(vi)	Administrative Block	02	250
(vii)	Workshop	03	657
(viii)	Computer Centre	01	150
(ix)	Toilets	30	800
(x)	Common Rooms	04	380
(xi)	Sports facilities (Indoor & Outdoor)	Basket Ball, Cricket, Volley Ball , Badminton, Table Tennis, GYM, Carom Board, Chess 03	1000
(xii)	Playground Sports events	02	2000
(xiii)	Students Canteen	02	250
(xiv)	Hostel	01	1600
(xv)	Any other facilities	05	

D	**Safety Measures**		
	Parameters	**Yes**	**No**
	Structural Safety Certificate of building of the Institute/College issued by Registered Architect	Yes	
	Whether Certificate indicating that the building is earthquake resistant has been obtained from local body (S. No. / Dated / Issuing Authority)	Yes	
	Availability of fire fighting devices at the institute and Fire Safety Certificate by Delhi Fire Service or concerned department of the state (NCR) where the Institute is located	Yes	
	Use of basement for other than approved purpose, if any in the Institute	Yes	
	Whether the NOC from the concerned department of Govt. of NCT, Delhi required (Yes / No	Yes	

7. Status of Director / Faculty/ /Employee

Is the Director, as per norms of the Statutory Body/UGC / University, is in	Yes					
position • **Name** • **Educational Qualifications** • **Experience** • **Gross Salary**	Prof. Dr. R.K.Raghuwanshi M.Tech ,Ph.D 28					
Total	B.TECH	61	BA LLB	21	BBA LLB	18
	B.ED	12	BBA	15	BCA	10
No. Of Professors/ Associate Professors (Programme-wise)	B.TECH	10	BA LLB	03	BBA LLB	03
	B.ED	02	BBA	03	BCA	02
No. Of Assistant Professors (Programme-wise)	B.TECH	51	BA LLB	18	BBA LLB	15
	B.ED	10	BBA	12	BCA	08
No. Of Technical Staff (Programme-wise)	B.TECH	09	BA LLB	01	BBA LLB	01
	B.ED	01	BBA	01	BCA	01
No. Of Non Teaching / Administrative Staff	17					

B.Tech

Director:

Name	Qualifications	Designation	Experience
Prof. Dr. R.K.Raghuwanshi	M.Tech ,Ph.D	Director & Professor / ME	28 Years

Dean:

Name	Qualifications	Designation	Experience
Dr. Devendra Jha	Ph.D., M.Sc (Engg), B.Tech.	Dean & HOD ME	39 Years

Applied Science

Sl. No.	Name of the Faculty	Department	Qualifications	Designation	Date of Joining	Experience
1	ANOOP KUMAR JAIN	Applied	B.TECH,M.tech,Ph.d	PROFESSOR	10/08/16	25 years
2	ARCHANA AGGARWAL	Applied	B.SC,M.Sc,Ph.d Pursuing	ASST PROFESSOR	20/05/2013	8 Years

ASST

B.Tech (CSE)

Sl. No.	Name of the Faculty	Department	Qualifications	Designation	Date of Joining	Experience
1	ARUN KUMAR CHATURVEDI	CSE	B.TECH,M.tech,Ph.d	PROFESSOR	20/07/2015	19 years
2	DR.SANDEEP GUPTA	CSE	MCA,M.TECH,Ph.d	ASSOCIATE PROFESSOR	01/02/16	13 years
3	MANOJ KUMAR	CSE	B.TECH,M.TECH, MSC,Ph.d Pursuing	ASST PROFESSOR	14/07/2014	6.5 Years
4	KRISHAN KUMAR SARASWAT	CSE	B.TECH,M.TECH	ASST PROFESSOR	20/07/2015	6 years
5	SHEKHAR SINGH KAUSHAB	CSE	B.TECH,M.TECH	ASST PROFESSOR	10/08/15	13 years
6	VANDITA SINGH	CSE	B.TECH,M.TECH	ASST PROFESSOR	18/07/2016	4.5 years
7	APOORVA JAIN	CSE	B.TECH,M.TECH	ASST PROFESSOR	18/07/2016	7 years
8	NAMITA SINGH	CSE	B.TECH,M.TECH	ASST PROFESSOR	25/09/2017	5 years

B.Tech (EE)

Sl. No.	Name of the Faculty	Department	Qualifications	Designation	Date of Joining	Experience
1	S.PADMANABHAN	EE	BE,ME,Ph.D Pursuing	PROFESSOR	15/07/2013	35 years
2	ANKUR KUMAR GUPTA	EE	B.TECH,M.TECH,Ph.d Pursuing	ASST PROFESSOR	21/07/2014	4.6 Years
3	JITENDER KUMAR	EE	BE,M.TECH,Ph.d Pursuing	ASST PROFESSOR	23/09/2015	17 years
4	ANANT GUPTA	EE	B.TECH,M.TECH	ASST PROFESSOR	18/07/2016	9 years
5	SAMIDHA GARG	EE	B.TECH,M.TECH	ASST PROFESSOR	30/08/2016	9 years
6	NIDHI DHAIYA	EE	B.TECH,M.TECH	ASST PROFESSOR	21/07/2014	3 years
7	MANASI PATNAIK	EE	B.TECH,M.TECH,Ph.d Pursuing	ASST PROFESSOR	29/09/2016	13 years
8	RITESH KUMAR RAI	EE	B.TECH,M.TECH	ASST PROFESSOR	27/02/2017	8 years

BA.LLB

Sl. No.	Name of the Faculty	Department	Qualifications	Designation	Date of Joining	Experience
1	Dr. Pallavi Gupta	BA.LLB	LLB,LLM,PHD	Professor	21/07/2014	20 years
2	Dr. JAY PRAKASH YADAV	BA.LLB	LLB,LLM PHD	Professor	24/07/2017	15 years
3	Dr. Ramesh Kumar	BA.LLB	LLB,LLM,PHD	Associate Professor	21/07/2015	9 years
4	AKANSHA	BA.LLB	LLB,LLM	Assistant Professor	23/08/2017	4 months
5	ANJALI SANKHWAR	BA.LLB	B.A LLB,LLM	Assistant Professor	24/07/2017	4.5 years
6	ASHISH SARSWAT	BA.LLB	LLB,LLM	Assistant Professor	21/08/2017	7 months

BBA.LLB

Sl. No.	Name of the Faculty	Department	Qualifications	Designation	Date of Joining	Experience
1	K.K.Geetha	BBA LLB	LLB,LLM,PHD	Professor	18/09/2016	25 Years
2	Dr. DEEPTI SINHA	BBA LLB	BA,MBA (Finance),PHD	Associate Professor	24/07/2017	17 years
3	Dr. SANJEELA MATHUR	BBA LLB	LLB,MBA	Associate Professor	17/08/2017	10 years
4	ARPIT	BBA LLB	LLB,LLM	Assistant Professor	17/08/2017	1.5 years
5	ASHUTOSH KUMAR	BBA LLB	LLB,LLM	Assistant Professor	4/8/2017	1 years
6	DEEPSHIKHA GUPTA	BBA LLB	BBA,MBA (Finance)	Assistant Professor	24/07/2016	1.4 years
7	Dr. Rumi Ahmed	BBA LLB	LLB,LLM,PHD	Assistant Professor	21/07/2015	3 years
8	Dr. SWAPNA SEN	BBA LLB	B.E,MBA PHD	Assistant Professor	24/07/2017	5 years
				Assistant	18/07/20	

9	Ms Gopika	BBA LLB	B.Com,M.Com, Pursuing PHD			3 Years

BBA

Sl. No.	Name of the Faculty	Department	Qualifications	Designation	Date of Joining	Experience
1	Arun Kumar Singh	BBA	BBA,MBA,PHD	Professor	18/07/2016	13 years
2	Shikha Jalota	BBA	B.Com,M.Com,D.Phil	Associate Professor	12/9/2016	12 years
3	Dr.Komal	BBA	B.Com,MBA,Mphil,PHD	Associate Professor	24/07/2017	15 Years
4	Dr. SAMRIDHI TIWARI	BBA	B.Com,MBA,PHD	Assistant Professor	24/07/2017	9 years
5	Dr. VANDANA	BBA	B.A ,MBA,PHD	Assistant Professor	27/07/2017	8 Years
6	Dr.Ananta Geetey Uppal	BBA	B.ED,M.A,Mphil,PHD	Assistant Professor	26/08/2015	17 years
7	Dr.Kumar Ashutosh	BBA	B.A Hon.,M.A,PHD	Assistant Professor	20/07/2015	13 years
8	GOPAL PATHAK	BBA	B.Sc,M.SC/PGDCA	Assistant Professor	1/1/2018	17 years
9	MAYANK KUMAR PANDEY	BBA	B.com,MBA,PHD Pursuing	Assistant Professor	4/9/2017	11 years
10	Mr.Vikram Kumar Sharma	BBA	B.Sc,Physics,MBA,PHD Pursuing	Assistant Professor	20/07/2015	5 years
11	Mr.Ashish Saxena	BBA	B.Sc,,MBA	Assistant Professor	20/07/2015	9.5 years
12	MUDIT TOMAR	BBA	B.Com,PGDBM	Assistant Professor	24/07/2017	8 years
13	Roshika	BBA	BBA,MBA	Assistant Professor	18/07/2016	6 years
14	SILKY GAUR	BBA	BBA,MBA	Assistant Professor	25/07/2016	6 years

B.Ed

Sl. No.	Name of the Faculty	Department	Qualifications	Designation	Date of Joining	Experience
1	Dr. Rekha Mahajan	B.Ed	Bsc , B.Ed,M.SC/M.ED,PHD	Professor	20/08/2015	26 years
2	Dr.Tandra Sharma	B.Ed	B.Sc,M.A,M.Ed,PHD	Professor	16/08/2016	25 years
3	Dr. Sanjeev Kumar Agarwal	B.Ed	Bsc , B.Ed,M.Ed,M.PHIL/PH.D	Assistant Professor	28/07/2016	10 Years
4	Dr. Rajnee Gaur	B.Ed	BA,MA,M.ED,M.PHIL/PH.D	Assistant Professor	1/7/2015	11 years
5	Himani Gajwani	B.Ed	Bsc , B.Ed,M.SC/M.ED	Assistant Professor	6/8/2016	5 Years
6	Mr. Niyaz Varis Varis	B.Ed	B.A,B.Ed,M,A,M.Ed	Assistant Professor	10/8/2015	9 years
7	Ms. Neha Goyal	B.Ed	Bsc , B.Ed,/M.ED	Assistant Professor	1/7/2015	8 years
8	Dr.. Raisa Khan	B.Ed	B.A,B.Ed,M,A,M.Ed,PHD	Assistant Professor	1/7/2015	10 years
9	Dr.NEHA GUPTA	B.Ed	B.Sc,B.Ed,M.Sc,M.Ed,PHD	Assistant Professor	27/07/2017	3 years

B.Com

Sl. No.	Name of the Faculty	Department	Qualifications	Designation	Date of Joining	Experience
1	Dr.SUMIT AGGARWAL	B.COM	MBA,Ph.D	Associate Professor	30/07/2018	17 Years
2	Dr.SHUBH ARORA	B.COM	MBA Ph.D	Assistant Professor	23/07/2018	9.5 Years
3	SHIVAM AGGARWAL	B.COM	B.Tech,M.Tech	Assistant Professor	30/07/2018	2 Years

Details of Library

A	Details of Books	Programmes					
		B.Tech	**BA LLB**	**BBALLB**	**B.Ed**	**BBA**	**BCA**
1.	Number of Titles	1846	467	443	1211	407	326
2.	Number of References	1846	467	443	1211	407	326
3.	Number of Volumes	8248	1793	1697	3817	1937	1326
4.	Total number of books	8248	1793	1697	3817	1937	1325
5.	No. of Journals (National & International)	**B.Tech**	**BALLB BBA LLB**		**B.Ed**	**BBA**	**BCA**
	National	30	13		13	05	05
	International	10	03		03	05	05
	Total	40	16		16	10	10

B	Details of Digital Facilities	
	E-Books	All Digital Content is accessible through Delnet including E Books, E Journals and AV MAterial
	E- Journals	
	Educational Video	
	Member of DELNET (Network Database)	
(i)	Whether library operations computerized, internet facility, Reading room facilities, Photocopying facilities available, If yes, give details.	Yes with Online access to Library resources
(ii)	Inter library linkage facilities	Yes
C	Reading Room and	Reading room and Photocopy facilities

	Reprographic facilities (photocopier and book binding)	available

12. Status of Labs / Workshops (to be mentioned programme-wise):

Parameters

Availability of equipments / instruments, work table / work stations shall be as per the requirement	Yes
Minimum Technical Lab staff shall be: One Lab Assistant & One Lab Attendant for each labs & for Central/Mechanical workshop: One workshop Superintendent, One Sr. Mechanic & One Junior Mechanic.	Yes
Size of the lab as per norms of statutory body	Yes

13. Conferencing / Instructional Facilities:-

	Parameters	
	Availability of:	
1	NKN Link	Yes
2	Edusat	No
3	Conferencing facility	Yes
4	Video multimedia	Yes
5	LCD	Yes
6	Overhead Projector with screen	Yes
7	Interactive boards	
8	Wi-Fi connectivity	Yes

14. Ancillary and Other Essential Facilities:

	Parameters	
1	Medical / First –Aid facility with Medical Room and availability of Doctors	Yes
2	Sports and games (indoor / outdoor)	Yes
3	Computer and Internet facility for the faculty members	Yes
4	Facilities for physically handicapped	Ramp, Lift
5	Separate common rooms for boys and girls	Yes
6	Students canteen	Yes
7	Availability of generator	Yes
8	Potable water and water coolers for summer season	Yes
9	Faculty cubicles	Yes

15. Details of other Facilities Available (Yes / No):

1	Drinking Water	Yes

2	Generator	Yes
3	Bank facility	
4	Facilities provided for physically Handicapped	Yes
5	Transport facilities	Yes
6	Medical facilities	Yes

16. Details of the Labs/Workshops/Work stations available:

Department of Science & Humanities

Name of the Laboratory: Applied Physics Lab I & II (ETPH 151 & 152)

S.No.	Major Equipment Available
1	Hall Effect Experiment Setup (Electromagnets, Hall Probe, Gauss Meter, Gauss Probe, Power Supply, etc.)
2	Stefan's Law by Electrical Method Experiment Setup
3	Energy Band Gap Experiment Setup (Oven, Thermometer, etc.)
4	Half Shade Polarimeter (Polarimeter tube, sodium lamp, etc.)
5	Wavelength of Sodium Light by Spectrometer and Grating Experiment Setup
6	Newton Ring Experiment Setup
7	He-Ne Laser Setup
8	Planck's Constant Experiment Setup
9	Numertical Aperture of Optical Fibre Experiment Setup
10	Refractive Index of material of Glass Prism Experiment Setup
11	Inverse Square Law Experimental Setup
12	ECE of Copper Experimental Setup (Tangent Galvanometer, Voltameter, Copper Sulphate)
13	Carey Foster Bridge Experimental Setup
14	e/m of and Electron by JJ Thomson Method Experimental Setup
15	Sonometer Experiment Setup
16	Charging and discharging of a Capacitor Experimental Setup

17	Thermal Conductivity by Lee Disk Experimental Setup
18	Frequency of an electrically maintained tuning fork by Melde's Method Experimental Setup

19 Zener characteristic Experimental Setup

20 Fresnel's Biprism Experimental Setup

List Of Major Apparatus Present In Chemistry Lab

Sr. No.	APPARATUS NAME
1	WEIGHING BALANCE
2	CONDUCTIVITY METER
3	OVEN
4	WATER BATH
5	DISTILLATION UNIT
6	PH METER
7	COLORIMETER
8	MAGNETIC STIRRER
9	VACUUM PUMP
10	TURBIDITY METER

DEPARTMENT OF CIVIL ENGINEERING

Geology Building Materials Lab

S.No.	Name of Equipment
1	Blame air permeability apparatus
2	Cube moulds
3	Cylindrical moulds
4	Compactio9n factor apparatus
5	G.I Sieve set (for coarse aggregate)

6	Picnometer
7	Minerals & Rocks sample

Surveying & Advance Surveying

S.No.	Name of Equipment
1	Total Station
2	Dumpy Level
3	Auto Level
4	Plane Table
5	Electronics theodolite

Cement & Concrete Testing Lab

S.No.	Name of Equipment
1	Vicat apparatus
2	Vee- Bee Consistometer
3	Le –Chatelier appartus
4	Copper Sieve set (for Fine aggregate)
5	Length gauges
6	Motorzied sieve shaker
7	Slump cone apparatus

Geotechnical Engineering Lab

S.No.	Name of Equipment
1	Unconfined compression apparatus
2	Triaxial compression apparatus
3	Plate load
4	Direct shear apparatus
5	Rapid moisture meter

Water & Waste Water Analysis Lab

S.No.	Name of Equipment
1	COD Reflux Unit
2	BOD Incubator
3	Digital pH Meter
4	Digital Conductivity Meter
5	Digital Turbidity Meter
6	Digital DO Meter

7	Oven
8.	Imhoff Cone

Structural Engineering Lab

S.No.	Name of Equipment
1	Two hinged arch
2	Three hinged arch
3	Truss
4	Curved member apparatus
5	Pin jointed apparatus
6	Redundant joint apparatus
7	Unsymmetrical bending apparatus

Department of Mechanical Engineering

ENGINEERING MECHANICS & STRENGTH OF MATERIAL LAB

Sl.No.	Name of Equipment
1	Pendulum Impact Testing Machine
2	Rockwell cum Brinell Testing Machine
3	Inclined Plane for Friction Coefficient Calculation
4	Torsion Testing Machine
5	Jointed Roof on Wheel with Weight
6	Apparatus to Prove Law of Triangle and Parallelogram of Forces
7	Apparatus to Prove Law of Conservation of Moments
8	Screw Jack
9	Simple Truss
10	Wheel and Axle Apparatus
11	Universal Testing Machine(UTM)
12	Spring Index Machine
13	Fatigue & Creep Testing Machine
14	Universal Testing Machine
15	Cantilever Apparatus for Calculation of Coefficient of Elasticity
16	Flexural Testing Apparatus
17	Column Buckling Apparatus
18	Cantilever Mechanism for Two Point Load System
19	Worm and Worm Wheel Apparatus

1. KINEMATICS OF MACHINE LAB

Sl.No.	Name of Equipment
1	Peculiar Linkage Drive Model

	Two Crank Linkage Drive Model Slide Crank Mechanism Scotch Yoke Mechanism
2	Inversion of Single Slide Crank Mechanism
3	Four Bar Link Mechanism
4	Four Bar Link Mechanism
5	Cam Analysis Apparatus with Dimmer & Gauge
6	Model of Gears (Helical, Spiral, Worm & Bevel)
8	Inversion of Single Slide Crank Mechanism

2. Dynamics of Machine Labs

Sl.No.	Name of Equipment
1	Universal governor apparatus
2	Motorized gyroscope apparatus
3	Static & dynamic balancing apparatus
4	Whirling of shaft apparatus
5	Vibration lab apparatus
6	Corriolis components accelerator apparatus

3. I C Engine Lab and Gas Turbines Lab

Sl.No.	Name of Equipment
1	4 stroke 1 cylinder engine diesel cut section
2	4 stroke 1 cylinder petrol engine cut section
3	Diesel Engine test ring
4	4 stroke 4 cylinder diesel test ring
5	2 stroke petrol engine test ring
6	4 stroke 4 cylinder petrol test ring
7	Cut section of Carburator
8	Cut section of automobile cooling system

4. Heat and Mass Transfer Lab

Sl.No.	Name of Equipment
1	Thermal conductivity of metal rod apparatus
2	Thermal conductivity of an insulating powder apparatus
3	Heat transfer through composite walls apparatus
4	Heat transfer in natural convection apparatus
5	Heat transfer in forced convection apparatus
6	Pin- fin apparatus
7	Stefan Boltzmann apparatus
8	Emissivity measurement apparatus
9	Parallel flow and counter flow heat exchanger apparatus
10	Lagged pipe apparatus
11	Critical heat flux apparatus

5. **Production Technology Lab**

1	Center Lathe
2	Universal Milling Machine
3	Shaper Machine
4	Pillar Drilling Machine
5	Grinding Machine
6	Gas Welding Equipment
7	Power Hacksaw
8	Hydraulic Press

6. **Mechanical Engineering Workshop Practice Lab**

Sl.No.	Name of Equipment
Black Smith Shop	
1	Anvil
2	Swage block
3	Different Type of Hammers
4	Different Type of Tongs
Machine Shop	
1.	Bench vice
2.	Centre Lathe Machine
3.	Grinding Machine

Carpentry Shop	
1.	Carpentry vice
2.	Sand Casting Kit
3.	Different Type of Files
4.	Different Type of Shaw
5.	Different Type of Files
Fitting Shop	
1.	Bench vices
2.	V- Block
3.	Hand hackshaw
Sheet Metal Shop	
1.	Wood mallet
2.	Different Type of punches
3.	Try square
4.	Surface Plate
5.	Jigs & Fixtures
Welding Shop	
1.	Electric Arc Welding apparatus
2.	Gas welding apparatus
3.	Different jigs & fixtures

Sheet Metal Shop

1. Simple die and punch assembly
2. Compound Die & Punch Assembly
3. Progressive Die & Punch assembly

7. **Fluid Mechanics Lab**

Sl.No.	Name of Equipment
1	Meta centric Height Set up
2	Orifice -meter Experimental Set up
3	Venturimeter Experimental Set up
4	Losses Determination During Pipe Flow Set up
5	Reynolds Number Set up
6	Notches Experimental Set up
7	Mouthpiece and Orifice Meter Experimental Set up
8	Bernoulli's Verification Experimental Set up

8. Fluid Machines Lab

Sl.No.	Name of Equipment
1	Francis Turbine
2	Kaplan Turbine
3	Pelton Wheel Turbine
4	Centrifugal Pump
5	Reciprocating Pump
6	Reynolds Apparatus

Department of Electrical Engineering

NAME OF THE LAB: ANALOG ELECTRONICS – II LAB (ETEE – 258)

Name of the Equipment with Specifications	
1.	Kit to Study the op-amp(IC-741) as Inverting and Non-inverting Amplifier
2.	Kit to Study the op-amp R-C Differentiating Circuits and R-C Integrating Circuits for Square Wave Input
3.	Kit to Study the op-amp(IC-741) as Adder, Subtractor, Voltage Follower
4.	Kit to Construct and Study Biased and Unbiased Series and Shunt Clipping Circuits and Combinational Clipper Circuits for Positive and Negative Peak Clipping of a Sine Wave
5.	R-C Phase Shift Oscillator
6.	Complete Setup to Study Wien Bridge Oscillator and Measurement

	of Frequency and Amplitude of Oscillations using op-amp
7.	Kit to Study the Waveform of a Square Wave Generator using op-amp(IC-741)
8.	Kit to Study the Waveform of Schmitt Trigger Circuit
9.	Kit to study Precision Rectifier Circuit using op-amp(IC-741)
10.	Kit to Study Monostable Multivibrator Using 555 Timer
11.	Kit to Study Astable Multivibrator Using 555 Timer
12.	Kit to Study Sallen Key Voltage Controlled Voltage Source Active Filters
13.	Connecting Probes with double sided clips

NAME OF THE LAB: Control Engineering LAB (ETEE – 258)

Sl. No.	Name of the Equipment with Specifications
1.	P, PI , PID, Controller Trainer Kit
2.	Speed Control System (Comparison of Open Loop & Closed Loop Control)
3.	To Study the Characteristics of Positional Error Detector by Angular Displacement of Two Servo Potentiometers for D.C. and A.C Excitations
4.	Lead- Lag Compensator Trainer Kit
5.	To Study the Synchro Transmitter in terms of Position v/s Phase and Voltage Magnitude with respect to Rotor Voltage Magnitude / Phase
6.	Magnetic Amplifier Trainer Kit
7.	Time Response Study Kit
8.	Synchro Transmitter & Receiver Pair To Study the Remote Position
9.	A.C. Servo Motor (Speed Torque Characteristics)
10.	Transfer Function of Field Controlled DC motor Trainer kit
11.	Transfer Function of Armature Controlled DC motor Trainer kit

12.	SPST, DPST, DPDT, TPST, TPDT Knife Switches
13.	
	rpm
14.	Digital Multi Meters

17. Connecting Probes with double sided clips

NAME OF THE LAB: Electrical Machines – I Lab (ETEE – 252)

Sl. No.	Name of the Equipment with Specifications
1.	2 KVA, 230V:230V Transformer with 0, 50%, 86.6%, 100% Tapings
2.	1 KVA, 230V:230V Transformer with 0, 50%, 86.6%, 100% Tapings
3.	Single Phase 8A, 0-230V Auto-Transformers
4.	3-Phase, 15A, 0-440V Auto-Transformers
5.	5 HP, 230V, 1500 rpm DC Shunt Motor
6.	5HP 230V, 1500 rpm Compound Motor Coupled to 3.7 KW, 1500 rpm, DC Shunt Generator
7.	5HP 230V, 1500 rpm DC Compound Motor Coupled to 3.7 KW, 1500 rpm, DC Compound Generator
8.	5 HP, 230V, 1500 rpm DC Compound Motor with Mechanical Loading arrangement
9.	5 HP, 230V, 1500 rpm DC Series Motor with Mechanical Loading arrangement
10.	5HP 230V, 1500 rpm DC Shunt Motor Coupled to 3.7 KW, 1500 rpm, DC Series Generator
11.	0-300V Continuously Variable, 100A DC Rectifier Unit
12.	Wire wound Rheostats: 1. 50Ω, 8A 2. 145Ω, 2.6A 3. 360Ω, 1.9A 4. 1000Ω, 1A
13.	Digital Tacho Meters capable of measuring speeds up to 10,000 rpm
14.	Analog Tacho Meters capable of measuring speeds up to 10,000 rpm (Techlok Make)
15.	Digital Multimeters
16.	DC Ammeters

1. 0-1/2 A

	2. 0-2.5/5 A 3. 0-5/10 A 4. 0-10/20 A
17.	DC Voltmeters 30/60 V
18.	DC Voltmeters 1. 150/300 V 2. 300/600 V
19.	AC Ammeters 1. 0-1/2 A 2.0-2.5/5 A 3. 0-5/10 A 4. 0-10/20 A
20.	AC Voltmeters 1.30/60 V 2. 150/300 V
21.	AC Voltmeters 300/600 V
22.	1.0-1/2A, 0-75/150/300 V 2. 0-1/2A, 0-150/300/600 V 3. 0-2.5/5 A, 0-150/300/600
23.	V UPF Watt meters 1.0-2.5/5 A, 0-150/300/600 V 2. 0-5/10 A, 0-150/300/600 V 3. 0-10/20 A, 0-150/300 V

NAME OF THE LAB: Electrical Machines Lab II (ETEE – 253)

Sl. No.	Name of the Equipment with Specifications
1.	2/3 H.P.,1440 RPM, 230 Volts, Capacitor-Start Normal-Run, 1-Phase Induction Motor with Base Plate and Mechanical Loading Arrangement (Crompton Greaves / Kirloskar Make)
2.	5 H.P.,1440 RPM, 400 / 440 Volts,3-Phase Squirrel-Cage Induction Motor with Base Plate and Mechanical Loading Arrangement (Crompton Greaves / Kirloskar Make)
3.	5 H.P.,1440 RPM, 400 / 440 Volts,3-Phase Slip-Ring Induction Motor with Base Plate and Mechanical Loading Arrangement (Crompton Greaves / Kirloskar Make)
4.	5 H.P.,1500 RPM, 230 Volts, D.C Shunt Motor coupled to 3 KVA, 1500 RPM, 400 Volts, 3-Phase Non-Salient Pole Alternator with Base Plate and Coupling Arrangement

5.	5 H.P.,1500 RPM, 230 Volts, D.C Shunt Motor coupled to 3 KVA, 1500 RPM, 400 Volts,

	3-Phase Salient Pole Alternator with Base Plate and Coupling Arrangement
6.	5 H.P.,1500 RPM, 400 / 440 Volts,3-Phase Direct Start Synchronous Motor with Damper Windings, Base Plate and Mechanical Loading Arrangement
7.	5 KW , 400 Volts, 3-phase Loading Rheostats
8.	400 Volts, 0-10 Amps, Continuously Variable , Loading Inductor with all the Terminals brought out for external connections
9.	5 KW , 400 Volts, 3-phase Capacitive Load
10.	Panel Boards for 1-Phase Induction Motors
11.	Panel Boards for 3-Phase Induction Motors
12.	Panel Boards for 3-Phase Synchronous Motor
13.	Panel Board for D.C Shunt Motor Coupled to 3-phase Alternator
14.	STAR/DELTA Starters suitable for 5 H.P. Induction Motors (Havel / Cutler Hammer / Standard Make)
15.	DIRECT ON LINE Starters suitable for 5 H.P. Induction Motors (Havel / Cutler Hammer / Standard Make)
16.	SPST, DPST, DPDT, TPST, TPDT Switches Mounted on Hylam Sheet with BTI Terminals for External Wiring
17.	Synchronizing Panel
18.	Phase Sequence Indicator (MECO Make)
19.	Synchronoscope

NAME OF THE LAB: Electrical Measuring Instruments and Transducers Lab (ETEL-258)

Sl. No.	Name of the Equipment with Specifications
1.	Whetstone's Bridge with Unknown Resistance Specimen
2.	Kelvin's Double Bridge with Unknown low Resistance Specimen
3.	Maxwell's Inductance –Capacitance Bridge with Unknown Inductance Specimen
4.	Anderson Bridge with Unknown Inductor Specimen
5.	De-Sauty's Bridge with Unknown Capacitor Specimen
6.	Crompton's D.C Potentiometer
7.	Weston Standard Cell (1.018 Volts)
8.	Four Terminal Standard Resistances (0.01Ω and 0.1 Ω)
9.	Volt –Ratio Box
10.	Spot Deflecting Galvanometer
11.	Decade Resistance Boxes (6 Dials)
12.	Decade Inductor Boxes (6 Dials)
13.	Decade Capacitor Boxes (6 Dials)
14.	30 MHz Cathode Ray Oscilloscope with Probes
15.	230 Volt, 5/10 Amps, 1-Phase Energy Meter
16.	230 Volt, 5/10 Amps, 1-Phase Electronic Energy Meter
17.	400 Volts 10/20 Amps, 3-Phase 3-Element Energy Meter
18.	400 Volts 10/20 Amps, 3-Phase Electronic Energy Meter

19.	230 Volt, 3 KW, Loading Rheostats
20.	400 Volt, 5 KW, Loading Rheostats
21.	400 Volt, 500 VA, 3-Phase, Phase Shifting Transformer With All Terminals Brought Out For External Connections
22.	15-30 / 5Amps, Current Transformers, With All Terminals Brought Out For External Connections
23.	Tri Vector Meter
24.	LVDT Kit (Complete Set)
25.	RTD, Thermocouple Kit (Complete Set)
26.	Strain Gauge Kit (Complete Set)
27.	A.C. Potentiometer
27.	Connecting Probes with double sided clips
28.	Stop Watch (Dial Type)
29.	Digital Multi Meters

Name of the Lab : Electronic Measurements and Instrumentation lab (ETEE-257)

Sl.No.	Name of the equipment with specification	Quantity Available
1.	Wheat stone bridge	01
2	Maxwell inductance -Capacitance Bridge with unknown inductance and capacitance specimens	01
3	Wein's series and parallel bridge with unknown capacitance specimen	01
4	30 MHZ dual trace cathode ray oscilloscope	02
5	Strain Gauge (variable resister transducer)	01
6	Analog Multimeter	01
7	Modern Digital Multimeters	05
8	LCQR Meter (MECO/AE Make)	02
9	LVDT trainer kit	01
10	Magnetic amplifier trainer kit	01
11	Arbitrary waveform generator kit	01
12	3MHz Function generator	02
13	Patch cords	50
14	Analog and digital I.C tester (Universal I.C tester)	02

15.	Thermocouple and RTD trainer kit (Temperature Measurement)	01
16.	Storage Oscilloscope	01
17.	Distortion Meter	01

NAME OF THE LAB: Power Systems – I Lab (ETEE – 256)

Sl. No.	Name of the Equipment with Specifications
1.	Study of Constructional Features, Applications, Power Rating of LT and HT cables
2.	Measurement of Inductance, Capacitance, Resistance and Insulation Resistance of multi core cables LCR Meter
3.	Study and Calculation of ABCD Parameters for a Transmission Line
4.	Study of Ferranti Effect for Transmission Line
5.	Calculation of Earth Resistance using Earth Electrodes and Megger
6.	Dielectric Strength of Transformer Oil using Transformer Oil Testing Kit
7.	Cable Fault Location Using Murray's Loop Test

Department of Electronics & Communication

Engineering Name of the lab : Analog Electronics lab (ETEC-251)

S.No	Name of the Equipment with specification
1.	0-30 V, 05 Amp ,Dual type regulated power supply
2	OP-AMP trainer kit(to use it as Differentiator, Integrator , Subtractor and Adder in both inverting and non inverting modes
3	Digital Multi meters

4	DC Milli Ammeter (0-100,0-250,0-500) mA
5 6 7	DC Micro Ammeter (0-50,0-100,0-250) micro ammeter Bread Boards
8	Bias stabilization study kit
9	Double stage RC coupled amplifier
10	Patch cords with double sided clips
10 11 12	Function generator 3MHZ Hartley oscillator study kit Colpitts oscillator study kit
13	RC phase shift oscillator study kit
14	Wein bridge oscillator study kit
15	230/12-0-12V ,500 mA transformer

NAME OF THE LAB: Communication Systems Lab (ETEC 256)

Sl. No.	Name of the Equipment with Specifications
1.	Generation of DSB-SC AM Signal using Balanced Modulator
2.	Kit to Study Amplitude Demodulation by Linear Diode Detector
3.	Kit for the Generation of SSB AM Signal
4.	Kit to Generate a FM Signal using Varactor Modulation
5.	Kit to Generate a FM Signal using Reactance Modulation
6.	Kit to Study the Envelope Detector for Demodulation of AM Signal and Observe Diagonal Peak Clipping Effect

7.	Kit to Generate FM Signal using Voltage Controlled Oscillator
8.	Detection of FM Signal using PLL
9.	Detection of FM Signal using Foster Seelay Method

10.	Kit to Study Super Heterodyne AM Receiver and Measurement of Receiver Parameters
11.	RF Power Generator
12.	RF Power Meter
13.	Kit to Study Pre-Emphasis and De-Emphasis in FM
14.	Generation of Phase Modulated and Demodulated Signal.
15.	Connecting Probes with double sided clips
16.	Digital Multi Meters

NAME OF THE LAB: Network Analysis and Synthesis Lab (ETEC 258)

Sl. No.	Name of the Equipment with Specifications
1.	Transient Response of Series RLC Circuit for different types of Input Waveforms
2.	Time Response of 1^{st} and 2^{nd} Order Type-0, Type-1 Systems for Unit Step and Square Wave Inputs
3.	Z and Y Parameter Estimation Kit
4.	ABCD Parameter Estimation Kit
5.	Hybrid Parameter Estimation Kit
6.	Z Parameters Estimation Kit for Two 2-Port Networks Connected in Series-Series Mode
7.	Y Parameters Estimation Kit for Two 2-Port Networks Connected in Parallel-Parallel Mode
8.	h Parameters Estimation Kit for Two 2-Port Networks Connected in Series-Parallel Mode
9.	ABCD Parameters Estimation Kit for Two 2-Port Networks Connected in Cascade Mode
10.	Reciprocity Theorem Verification Kit
11.	Kit for Frequency Response of different Filter Circuits
12.	

	Patch Cards with Double Sided Clips
13.	Digital Multimeters with 3 ½ Digit Display and Facility for Measuring Voltage, Current, Resistance, Temperature, h_{fe} and Frequency

NAME OF THE LAB: Switching Theory and Logic Design Lab(ETEC – 253)

Sl. No.	Name of the Equipment with Specifications
1.	Logic Gate Trainer Kit
2.	Adder and Subtractor study kit
3.	Flip-Flop Trainer Kit
4.	Synchronous Counter Trainer Kit
5.	Ripple Counter Trainer Kit
6.	Decade Counter Trainer Kit
7.	BCD to Excess-3 Converter Kit
8.	Digital IC Trainer Kit
9.	Patch Cords with Clips at both ends
10.	555 Timer Circuit study Kit (Mono stable, Bi-Stable and Astable Modes of Operation)
11.	Analog to Digital Converter Trainer Kit
12.	Digital to Analog Converter Trainer Kit
13.	Multiplexer and De-multiplexer Study Kit
14.	Encoder and Decoder Study Kit

17. **Details of Computer Centre:**

S. No	Name of Laboratory	No. of Computers with Configuration	Other Equipment(LAN/Servers/Printers/Firewall etc)	Legal Software(System & Application)
1	Computer Lab - 1	Acer Core i5, Processor E500,DDR3 4GB RAM, SATA 1 TB HDD, with 18.5" LCD monitor, optical mouse and keyboard =30 System	NETWORK SWITCH 02, PRINTER 01, LAN, OFFLINE UPS 1 KVA=10	Microsoft Windows 10 & Microsoft Windows 7,.Net,Visual Studio, Libre Office, Quick heal Antivirus EPS 6.3, (Microsoft open value subscription)
2	Computer Lab - 2	Acer Core i3, Processor E500, DDR3 2GB RAM, SATA 320 GB HDD, with 18.5" LCD monitor, optical mouse and keyboard DVD ROM=60 System	NETWORK SWITCH 04, PRINTER 02, LAN, ONLINE UPS 10 KVA=02	Microsoft Windows 10 & Microsoft Windows 7,Libre Office, Quick heal Antivirus EPS 6.3, (Microsoft open value subscription)
3	Computer Lab - 3	Acer Core i3, Procespsor-3200, 3.30 GHz. DDR3 2GB RAM, SATA 500 GB HDD, with 18.5" LCD monitor, optical mouse and keyboard=30 System	NETWORK SWITCH 02, PRINTER 01, LAN, OFFLINE UPS 2.5 KVA=3	Microsoft Windows 10 & Microsoft Windows 7, Oracle 10g, Libre Office, Quick heal Antivirus EPS 6.3, (Microsoft open value subscription)
4	Computer Lab - 4	Acer Core i5, Processor E500,DDR3 4GB RAM, SATA 1 TB HDD, with 18.5" LCD monitor, optical mouse and keyboard =30 System	NETWORK SWITCH 02, PRINTER 01, LAN, ONLINE UPS 1 KVA=10	Microsoft Windows 10 & Microsoft Windows 7, Linux , Libre Office, Quick heal Antivirus EPS 6.3, (Microsoft open value subscription)
5	Computer Lab - 5	Acer Core i3,Processor-E500, DDR3 2GB RAM, SATA 500 GB HDD, with 18.5" LCD monitor, optical mouse and keyboard=30 System	NETWORK SWITCH 02, PRINTER 01,LAN, ONLINE UPS 3.0 KVA=03	Microsoft Windows 10 & Microsoft Windows 7, Windows XP, Linux, Ubuntu, Libre Office, Quick heal Antivirus EPS 6.3, (Microsoft open value subscription)
6	Computer Lab - 6	Acer Core i5, Processor E500,DDR3 4GB RAM, SATA 500 GB HDD, with 18.5" LCD monitor, optical mouse and keyboard =30 System	NETWORK SWITCH 02, PRINTER 01,LAN, ONLINE UPS 3.0 KVA=03	Microsoft Windows 10 & Microsoft Windows 7, (Microsoft open value subscription)
7	Computer Lab - 7	Acer Dual core , Processor 2.5 GHz, DDR2 2GB RAM, SATA 160 GB HDD, with 15" LCD monitor, optical mouse and keyboard=30 System	NETWORK SWITCH 02, PRINTER 01,LAN, ONLINE UPS 3.0 KVA=03	Microsoft Windows 10 & Microsoft Windows 7, Windows XP, Linux, Ubuntu, Libre Office, Quick heal Antivirus EPS 6.3, (Microsoft open value subscription)
8	Computer Lab - 8	Acer Dual core , Processor 2.5 GHz, DDR2 2GB RAM, SATA 160 GB HDD, with 15" LCD monitor, optical mouse and keyboard=30 System	NETWORK SWITCH 02, PRINTER 01,LAN, ONLINE UPS 3.0 KVA=03	Microsoft Windows 7, Libre Office, Quick heal Antivirus EPS 6.3, (Microsoft open value subscription)

9	Computer Lab - 9	Acer Core i5, Processor E500,DDR3 4GB RAM, SATA 500 GB HDD, with 18.5" LCD monitor, optical mouse and keyboard =30 System	NETWORK SWITCH 02, PRINTER 01,LAN, ONLINE UPS 3.0 KVA=03	Microsoft Windows 10 & Microsoft Windows 7,Libre Office, (Microsoft open value subscription)
10	Computer Lab - 10	Acer Core i5, Processor E500,DDR3 4GB RAM, SATA 1 TB HDD, with 18.5" LCD monitor, optical mouse and keyboard =30 System	NETWORK SWITCH 02, PRINTER 01,LAN, ONLINE UPS 3.0 KVA=04	Microsoft Windows 10 & Microsoft Windows 7, Libre Office, (Microsoft open value subscription)
11	Computer Lab - 11	Acer Dual core , Processor 2.5 GHz, DDR2 2GB RAM, SATA 160 GB HDD, with 15" LCD monitor, optical mouse and keyboard=30 System	NETWORK SWITCH 02, PRINTER 01,LAN, OFLINE UPS 625VA =30 NOSE	Microsoft Windows 10 & Microsoft Windows 7, Libre Office, (Microsoft open value subscription)
12	Computer Lab - 12	Acer Core i5, Processor E500,DDR3 4GB RAM, SATA 1 TB HDD, with 18.5" LCD monitor, optical mouse and keyboard =30 System	NETWORK SWITCH 02, PRINTER 01,LAN, OFFLINE UPS 1 KVA=10	Microsoft Windows 10 & Microsoft Windows 7, Windows XP, Linux, Ubuntu, Libre Office, Quick heal Antivirus EPS 6.3, (Microsoft open value subscription)
13	Computer Lab - 13	Acer Core i5, Processor E500,DDR3 4GB RAM, SATA 1 TB HDD, with 18.5" LCD monitor, optical mouse and keyboard =30 System	NETWORK SWITCH 02, PRINTER 01,LAN, OFFLINE UPS 1 KVA=10	Microsoft Windows 10 & Microsoft Windows 7, Ubuntu, Libre Office, Quick heal Antivirus EPS 6.3, (Microsoft open value subscription)
14	Computer Lab - 14	Acer Core i5, Processor E500,DDR3 4GB RAM, SATA 1 TB HDD, with 18.5" LCD monitor, optical mouse and keyboard =30 System	NETWORK SWITCH 02, PRINTER 01,LAN, OFFLINE UPS 1 KVA=10	Microsoft Windows 10 & Microsoft Windows 7, Windows XP, Linux, Ubuntu, Libre Office, Quick heal Antivirus EPS 6.3, (Microsoft open value subscription)
15	Issued	Dual Core /Acer Core i3/ i5, Processor E500,DDR3 4GB RAM, SATA 1 TB HDD, with 18.5" LCD monitor, optical mouse and keyboard =98 System	NETWORK SWITCHs, PRINTERs,LAN, OFFLINE UPS	Microsoft Windows 10 & Microsoft Windows 7, Quick heal Antivirus EPS 6.3, (Microsoft open value subscription)
16	Server Room	Intel (R) Xeon CPU 2.13 GHz, 4GB RAM, 250 GB HDD, Keyboard, Mouse, DVD Writer =02 HP ML-10 Server =01	NETWORK SWITCHs ,Printer 01, LAN	Microsoft Windows Server 2003, 2008, 2012, RHEL, FEDORA,CentOS

18. Any new initiatives/achievements: