

Mandatory Disclosure

1. **Name of the Institution-** Xavier Institute of Polytechnic and Technology,
Address -Vill.- Bargawan,P.O+P.S- Namkum, Dist.- Ranchi, Jharkhand-
834010.**PhoneNo.-** 0651-2260217, Mobile No.-9934575084,
E-Mail-xipt@xiss.ac.in

2. **Name and Address of the Society-Xavier Institute of Social Service**
Address-Dr.CamilBulckePath(PuruliaRoad),Ranchi,P.O-G.P.O,Ranchi,Dist-
Ranchi,Jharkhand,PinCode- 834001
TelephoneNo..-0651-2200873
E-Mail-xiss@xiss.ac.in

3. **Name and Address of the Principal-Mr. Prem Nath Verma.**
Address: - Xavier Institute of Polytechnic and Technology, Bargawan, Namkum, Dist.-
Ranchi,Jharkhand-834010
MobileNo-9934575084
E-Mail-pn1verma4@gmail.com

4. **NameoftheaffiliatingUniversity-**JharkhandUniversityofTechnology,Ranchi,Jharkhand.
5. **Governance**
 - Members of the Board and their brief background

Sl.No.	Name&Father'sName	Designation
1.	Fr.AjitKumarXess,S.J. S/oLouis Xess	Chairman
2.	Fr. Alex Ekka S/o Stanislas Ekka	ViceChairman
3.	Fr.JosephMarianusKujur,S.J.S /oJoachim Kujur	Secretary
4.	Fr.PradeepKerketta,S.J. S/oJosephKerketta	Assistant Secretary
5.	Fr. Francis David Kullu, S.J. S/oAugustineEkka	Treasurer
6.	Fr. Xavier Soreng,S.J. S/oJoachimSoreng	Member
7.	Fr. Emmnuel Barla, S.J. S/oJohan Barla	Member
8.	Fr. Roshan Baa, S.J. S/oJowakimBaa	Member

10.	Fr.Bijo Manohar Tirkey, S.J. S/oJulius Tirkey	Member
11.	Fr. Ashok Laxman Ohol, S.J. S/oLaxmanDhondibaOhol	Member
12.	Fr. Nabor Lakra, S.J. S/o Leonard Lakra	Member

- Members of Academic Advisory Body
- Frequency of the Board Meeting and Academic Advisory Body–**Twiceina Year**
- Organizational chart and processes
- Nature and Extent of involvement of Faculty and students in academic affairs/improvements
- Mechanism/Normsandprocedurefordemocratic/goodGovernance-**Available**
- Student Feedback on Institutional Governance/Faculty performance-**Available**
- Grievance redressal mechanism for Faculty, staffand students- **Available**
- Establishment of Anti Ragging Committee-**Available**

Members of Anti-ragging Committee and Squad

1) Anti-ragging Committee:

- | | |
|---|----------|
| 1. Mr. P N Verma
Principal | Chairman |
| 2. Mr.JaitunKumar
Registrar,T.P.O&Sr.Lecturer | Member |
| 3. Mr. Raj Kumar
Lecturer & H.O.D In-Charge of ME | Member |
| 4. Ms.Gulfshan
Lecturer &H.O.DIn-Chargeof EEE | Member |
| 5. Ms.Anshu Mala Kispotta
Lecturer&H.O.DIn-ChargeofECE | Member |
| 6. Dr.Manas RajhansChoubey
MemberLecturer | |
| 7. Mr. Alvin A. Bage
Lecturer | Member |
| 8. Ms.Aditi Munda
Lecturer | Member |
| 9. Ms. Neha Noopur Mundu
Lecturer | Member |
| 10. Prabhat Khabar
MediaRepresentative | Member |

11. Nishant Ekka
Member Student Department of EEE
12. Zeeshan Adil
Student Department of EEE

2)

**Anit-
ragging Squad**

1. Mr. Raj Kumar
Lecturer & H.O.D In-Charge of ME
Chairman
2. Ms. Anshu Mala Kispotta
Member Lecturer & H.O.D In-Charge of ECE
3. Ms. Gulfshan
Lecturer & H.O.D In-Charge of ECE
Member
4. Ms. Dipti Analisa Ekka
Lecturer
Member
5. Ms. Rashmi Kiran Kujur
Lecturer
Member
6. Mr. Salahuddin Ansari
Member Lecturer
7. Mr. Avtar Krishna
Lecturer
Member
8. Ms. Soharai Munda
Lab Technician
Member
9. Ms. Shobha Horo
Technician
Member
10. Ms. Mary Kiran Prabha Minz
Office Assistant
Member

- Establishment of Online Grievance Redressal Mechanism-**Available**
- Establishment of Grievance Redressal Committee in the Institution and Appointment of OMBUDSMAN by the University
- Establishment of Internal Complaint Committee (ICC)-

Available Members of Internal Complaint Committee

1.	Mr. Raj Kumar	Chairperson
2.	Ms. Gulfshan	Member
3.	Ms. Anshu Mala Kispotta	Member
4.	Ms. Mary Kiran Prabha Minz	Member
5.	Ms. Shobha Horo	Member
6.	Nidhi Rajan	Student
7.	Somya Kumari	Student
8.	Anamika Asmita Tirkey	Student

- **Establishment of Committee for SC/ST**

Available Member of SC/ST Committee

Sl. No	Name
1.	Mr. Alvin A. Bage
2.	Ms. Aditi Munda
3.	Ms. Rashmi Kiran Kujur
4.	Ms. Dipti Analisa Ekka
5.	Ms. Anjana Bara

- **Internal Quality Assurance Cell**

Available Member of Internal Quality Assurance Cell

1	Mr. P.N Verma Principal	Chairperson
2	Mr. Jaitun Kumar Registrar & T.O.P.	Coordinator
3	Ms. Gulfshan Lecturer & HoD I/C EEE	Member
4	Mr. Raj Kumar Lecturer & HoD I/C ME	Member
5	Ms. Anshu Mala Kispotta Lecturer & HoD I/C ECE	Member
6	Mr. Surender Singh DGM, CCL Ranchi	Member
7	Mr. Pankaj Purendu Faculty, JGGTP	Member
6.	Mr. Rupesh Rawani Sr. Engineer Application (Komet Precision Pvt. Ltd.)	Member
8.	Ms. Sapan Misri Alumini	Member
9.	Mr. Sonal Mahadani Alumini	Member
10.	Mr. Mayank Kumar Student, Department of Electrical and Electronics Engineering	Member
12	Mr. Harjot Singh Student, Department of Mechanical Engineering	Member

Institute- Industry Interface Cell (I-IIC)

Available Member of Institute Industry Interface Cell

SL.No	Name	Designation	Organization
1	Mr. Jaitun Kumar	Registrar	Service -XIPT
2	Moloy Acharjee	Principal	TPSDI

3	M.K. Gupta	Principal	JGTR
4	Rupesh Rawani	Sr. Engineer	TATA HITACHI
5	Abhimanu Kumar	Hr Manager	RAKON INDIA
6	Raj Kumar	Lecturer	Service -XIPT

Equal Opportunity Cell

Available Member of Equal Opportunity Cell

SL NO	NAME	Designation
1	Mr. P.N.Verma	Chairperson
2	Mr. Jaitun Kumar	Convener
3	Mr. Raj Kumar	Member
4	Ms. Gulfshan	Member
5	Ms. Anshu Mala Kispotta	Member
6	Dr. Manas Rajhans Chaubey	Member
7	Ms. Dipti Analisa Ekka	Member

Grievance Redressal Mechanism Committee

Avialable Member of Grievance Redressal Mechanism Committee

1	Mr. P.N. Verma Principal	Chairperson
2	Mr. Raj Kumar Lecturer & HoD I/C ME	Member
3	Ms. Gulfshan Lecturer & HoD I/C EEE	Member
4	Ms. Anshu Mala Kispotta Lecturer & HoD I/C ECE	Member
5	Mr. Harjot Singh Student, Department of Mechanical Engineering	Member

6. Programmes

- Name of Programmes approved by AICTE**

1.	MechanicalEngineering
2.	ElectricalandElectronicsEngineering
3.	ElectronicsandCommunicationEngineering

- Name of Programmes Accredited by AICTE – N.A.
- Status of Accreditation of the Courses
 - Total number of Courses - **03**
 - No. of Courses for which applied for Accreditation - **Nil**
- **For each Programme the following details are to be given**

Name of Programme	Diploma in Mechanical Engineering			
Number of Seats	120+6 (TFWS)			
Duration	3 Years			
Cut of Marks/rank of admission during the last three years	2019-20	2020-21	2021-22	
	45 % in Matriculation (Batch 2019-22)	43 % in Matriculation (Batch 2020-23)	40 % Matriculation (Batch 2021-24)	
Fee (as approved by the state government)	51200/-			
Placement Facility	Yes			
Campus Placements in last three years with minimum Salary, Maximum salary and average salary	Year	2018-19	2019-20	2020-21
	Minimum salary	1.2 Lakh/Annual	1.2 Lakh/Annual	NA
	Maximum salary	3 Lakh/Annual	3.17 Lakh/Annual	NA
	Average salary	1.44 Lakh/Annual	1.44 Lakh/Annual	NA
Name of Programme	Diploma in Electrical and Electronics Engineering			
Number of Seats	120+6 (TFWS)			
Duration	3 Years			
Cut of Marks during the last three years	2019-20	2020-21	2021-22	
	45 % in Matriculation (Batch 2019-22)	40.8 % in Matriculation (Batch 2020-23)	46% in Matriculation (Batch 2021-24)	

Fee	51200/-			
Placement Facility	Yes			
Campus Placements in last three years with minimum Salary, Maximum salary and average salary	Year	2018-19	2019-20	2020-21
	Minimum salary	1.2 Lakh/Annual	1.2 Lakh/Annual	NA
	Maximum salary	1.44 Lakh/Annual	1.8 Lakh/Annual	NA
	Average salary	3 Lakh/Annual	3 Lakh/Annual	NA

Name of Programme	Diploma in Electronics and Communication Engineering			
Number of Seats	60 + 3 (TFWS)			
Duration	3 Years			
Cut of Marks during the last three years	2019-20	2020-21	2021-22	
	43.2% in Matriculation (Batch 2019-22)	46% in Matriculation (Batch 2020-23)	54% in Matriculation (Batch 2021-24)	
Fee	51200/-			
Placement Facility	Yes			
Campus Placements in last three years with minimum Salary, Maximum salary and average salary	Year	2018-19	2019-20	2020-2021
	Minimum salary	1.2 Lakh/Annual	1.2 Lakh/Annual	NA
	Maximum salary	1.56 Lakh/Annual	1.8 Lakh/Annual	NA
	Average salary	1.45 Lakh/Annual	1.4 Lakh/Annual	NA

7. Faculty

- Branch wise list of Faculty members:

- Permanent Faculty**

Sl.No	Name	Branch
1	Mr. P.N. Verma	Mechanical Engineering

2	Mr. RajKumar	MechanicalEngineering
3	Mr. AvtarKrishna	MechanicalEngineering
4	Mr. LochanShashiKhalkho	MechanicalEngineering
5	Mr. AlvinA.Bage	MechanicalEngineering
6	Mr. Salahuddin Ansari	MechanicalEngineering
7	Mr. Alok Niranjan Kumar	MechanicalEngineering
8	Mr. JaitunKumar	ElectricalandElectronicsEngineering
9	Ms. Gulfshan	ElectricalandElectronicsEngineering
10	Mr. Ratnesh Kumar	Electrical and Electronics Engineering
11	Mr. Vikas Kumar Tiwari	Electrical and Electronics Engineering
12	Ms. Aditi Munda	Electrical and Electronics Engineering
13	Ms. Ruchi Kujur	Electrical and Electronics Engineering
14	Ms. Lily Lakra	Electrical and Electronics Engineering
15	Ms. Anshu Mala Kispotta	Electronics and Communication Engineering
16	Ms. Jemma Tigga	Electronics and Communication Engineering
17	Ms. Srity Kerketta	Electronics and Communication Engineering
18	Ms. Neha Nupur Mundu	Electronics and Communication Engineering
19	Dr. Manas Rajhans Choubey	First Year
20	Mr. Basudev Mahato	First Year
21	Ms. Rashmi Kiran Kujur	First Year
22	Ms. Dipti Anilisa Ekka	First Year
23	Ms. Anjana Bara	First Year
24.	Punam Jyanti Ekka	Library

- **AdjunctFaculty**


Sl.No	Name	Branch
1.	Surendra Singh	EEE
2.	Fr. Edwin Ritesh Dungdung	1 st Year
3.	Fr. Isaac Xalxo	1 st Year
4.	Fr. Valentine Sinduria	1 st Year

- PermanentFaculty:StudentRatio-**1:25**

- NumberofFacultyemployedandleftduringthelastthreeyears-

No.ofFacultyEmployed	Leftduringthelastthreeyears
27	08

8. Profile of Vice Chancellor/Director/Principal/Faculty


Name: Mr. P.N. Verma				
Date of Birth	05-11-1960			
Designation	Principal			
Department	Mechanical Engineering			
Date of Joining	11-03-2022			
Unique ID				
Educational Qualification	B.Sc. Engg. (Mech.)			
Area of Specialization	Mechanical Engg.			
Courses taught at Diploma/Post /UG/PG diploma level	Engineering Drawing, Machine Drawing			
Total Experience	Teaching: 6 yr	Industry 27 yr	Research 1yr	Others
		NIL	NIL	NIL
Research Paper Published	National :- NIL		International :- NIL	
Paper presented In	Conference NIL	National 1	International 2	
Workshop	1			
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	LMIE, LMT, SILMIGC, LMII Metal, ISHRAE			
Project Carried out	NIL			
Technology Transfer	1			
Consultancy Activity	1			
Rewards	NIL			

Name : Jaitun Kumar



DateofBirth	23-07-1983			
Designation	Sr. Lecturer, Registrar, TPO			
Department	EEE			
DateofJoining	21-4-2017			
UniqueID	1-4560013044			
EducationalQualification	Pursuing Phd, MBA, UGC NET, AMFI			
AreaofSpecialization	Management, EDP, DLS			
Courses taught at Diploma/Post /UG/PG diploma level	EDP, DLS, SCA			
TotalExperience	Teaching	Industry	Research	Others
	07	05	01	NIL
Research paper Published	National :- 01		International :- NIL	
Paper presented In	Conference	National		International
	01	01		NIL
Workshop	04		NIL	
	04		NIL	
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	Unnat Bharat Abhiyan, Sansad Adarsh Gram Yojana			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			

Name : Dr. Mans RajhansChoubey				
DateofBirth	18-12-1981			
Designation	Lecturer			
Department	1YEAR			
DateofJoining	11-01-2011			
UniqueID	1-480581233			
EducationalQualification	Msc. P.hd			
AreaofSpecialization	Organic Chemistry			
Courses taught at Diploma/Post /UG/PG diploma level	Chemistry in Sem 1 and sem II			
TotalExperience	Teaching	Industry	Research	Others
	15	NIL	NIL	NIL
Research paper Published	National :- 3		International :- NIL	
Paper presented In	Conference	National		International
	NIL	NIL		NIL
Workshop	NIL	NIL		NIL
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			

Name: Rashmi kiran Kujur				
DateofBirth	11-07-86			
Designation	04-01-22			
Department	1YEAR			
DateofJoining	04-01 22			
UniqueID				
EducationalQualification	Msc in Physics with B.Ed			
AreaofSpecialization	Electronics			
Courses taught at Diploma/Post /UG/PG diploma level	Physics I and II sem			
TotalExperience	Teaching	Industry	Research	Others
	2 yrs. 1 month	NIL	NIL	NIL
Research paper Published	National :- NIL		International :- NIL	
Paper presented In	Conference	National		International
	NIL	NIL		NIL
Workshop	NIL	NIL		NIL
	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			

Name : Anjna Bara



DateofBirth	23-12-91			
Designation	Lecturer			
Department	1YEAR			
DateofJoining	20-01-22			
UniqueID				
EducationalQualification	Msc. In Mathematics with B.Ed			
AreaofSpecialization	Computer oriented numerical Analysis , DBMS			
Courses taughtatDiploma/Post /UG/PG diploma level	Mathematics In I, II and III sem			
TotalExperience	Teaching	Industry	Research	Others
	1 yrs. 2 Months	NIL	NIL	NIL
Research paper Published	National :- NIL		International :- NIL	
Paper presented In	Conference	National		International
	NIL	NIL		NIL
Workshop	NIL		NIL	
	NIL		NIL	
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			

Name : Dipti Analisa Ekka				
DateofBirth	27-10-1994			
Designation	lecturer			
Department	1YEAR			
DateofJoining	21-01-22			
UniqueID				
EducationalQualification	Master In English			
AreaofSpecialization	Indian English, Linguistic			
Courses taught at Diploma/Post /UG/PG diploma level	Communication Skill I and II Sem.			
TotalExperience	Teaching	Industry	Research	Others
	1yrs. 3 month	NIL	NIL	NIL
Research paper Published	National :- NIL		International :-NIL	
Paper presented In	Conference	National		International
	NIL	NIL		NIL
Workshop	NIL	NIL		NIL
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			

Name : Raj Kumar




DateofBirth	06-07-88			
Designation	Lecturer			
Department	Mechanical Engg.			
DateofJoining	20-04-22			
UniqueID				
EducationalQualification	M.Tech			
AreaofSpecialization	MachineDesign			
Courses taught at Diploma/Post /UG/PG diploma level	EngineeringGraphics,Machine Design,Metrology& qualitycontrol, TheoryofMachine			
TotalExperience	Teaching	Industry	Research	Others
	08	NIL	NIL	NIL
Research paper Published	National :- NIL		International :- NIL	
Paper presented In	Conference	National		International
	03	NIL		01
Workshop	NIL			
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			


Name:LochanS. Khalkho




DateofBirth	10-06-1969			
Designation	Lecturer			
Department	Mechanical Engg			
DateofJoining	04-10-2010			
UniqueID	1-480508405			
EducationalQualification	M.Tech			
AreaofSpecialization	HeatPowerEngineering			
Courses taught at Diploma/Post /UG/PG diploma level	ThermalEngineering,PowerEngineering,AlternateEnergySourcesandManagement,Workshop,MachineDrawing.			
TotalExperience	Teaching	Industry	Research	Others
	12	NIL	NIL	04
Research paper Published	National :- 08		International :- NIL	
Paper presented In	Conference	National		International
	NIL	NIL		NIL
Workshop	NIL			
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			

Name::AlvinA.Bage									
DateofBirth	01-07-1979								
Designation	Lecturer								
Department	Mechanical Engg.								
DateofJoining	02-04-2012								
UniqueID	1-421252038								
EducationalQualification	B.E								
AreaofSpecialization	EngineeringMechanics								
Courses taught at Diploma/Post /UG/PG diploma level	EngineeringMechanics, Fluid Mechanics, strength of Martial, Measurement and Automation								
TotalExperience	Teaching	Industry	Research	Others					
	10	NIL	NIL	NIL					
Research paper Published	National :- NIL			International :- NIL					
Paper presented In	Conference	National			International				
	NIL	NIL			NIL				
Workshop									
Phd Guide?	Field			University					
Phds Project Guided	NIL								
Book published /IPRs/Patents	NIL								
Professional Membership	NIL								
Project Carried out	NIL								
Technology Transfer	NIL								
Consultancy Activity	NIL								
Rewards	NIL								

Name: Avtar Krishna				
Date of Birth	13-01-1983			
Designation	lecturer			
Department	Mechanical Engg.			
Date of Joining	01-08-11			
Unique ID	1-762487002			
Educational Qualification	M.Tech(CAD/CAM), PG Certificate in Industrial Management			
Area of Specialization	Manufacturing			
Courses taught at Diploma/Post /UG/PG diploma level	Industrial Fluid Power, Alternate Source of Energy, Management, Advance Manufacturing Technology, Automobile Engineering, Engineering Materials, Theory of Machines and mechanism, Manufacturing Technology			
Total Experience	Teaching	Industry	Research	Others
	10 yrs. 9 month	One yrs.	NIL	NIL
Research paper Published	National :- NIL		International :- NIL	
Paper presented In	Conference	National 03		International 01
Workshop	01			
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published / IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			

Name: Salahuddin Ansari				
Date of Birth	16-11-93			
Designation	lecturer			
Department	Mechanical Engg.			
Date of Joining	01-11-21			
Unique ID				
Educational Qualification	MBA			
Area of Specialization	Marketing			
Courses taught at Diploma/Post /UG/PG diploma level	Industrial Engg. And mgt., Dls. PP			
Total Experience	Teaching	Industry	Research	Others
	1.4 yrs	NIL	NIL	NIL
Research paper Published	National :- NIL		International :- NIL	
Paper presented In	Conference	National		International
	NIL	NIL		NIL
Workshop	NIL	NIL		NIL
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			

Name: Alok Niranjana Kumar				
DateofBirth	19-02-1987			
Designation	lecturer			
Department	Mechanical Engg.			
DateofJoining	27-04-22			
UniqueID				
EducationalQualification	M.Tech			
AreaofSpecialization	Thermal Engineering			
Courses taught at Diploma/Post /UG/PG diploma level	Mechanical Engg.			
TotalExperience	Teaching	Industry	Research	Others
	10 yrs	NIL	NIL	NIL
Research paper Published	National :- NIL		International :- NIL	
Paper presented In	Conference	National		International
	NIL	NIL		NIL
Workshop	01			
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			

Name : Gulfshan



DateofBirth	26-01-94			
Designation	Lecturer			
Department	EEE			
DateofJoining	14-02-22			
UniqueID				
EducationalQualification	M.Tech			
AreaofSpecialization	Power System and Drive			
Courses taught at Diploma/Post /UG/PG diploma level	Network, Electrical Engg., Power system, RES, Instrumentation System, Machine			
TotalExperience	Teaching	Industry	Research	Others
	6 month	3.5 yrs		
Research paper Published	National :-		International :- 04	
Paper presented In	Conference	National		International
	NIL	NIL		NIL
Workshop	NIL			
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			

Name:RatneshKumar




DateofBirth	10-12-1975			
Designation	lecturer			
Department	EEE			
DateofJoining	10-12-1975			
UniqueID	1-7426653102			
EducationalQualification	M.E			
AreaofSpecialization	Power Electronics			
Courses taught at Diploma/Post /UG/PG diploma level	Powerelectronics.BasicElectronics,ESDM,PLC,NetworkTheory, Industrial Automation			
TotalExperience	Teaching	Industry	Research	Others
	6.5 years	17 yrs.		
Research paper Published	National :-		International :-01	
Paper presented In	Conference	National		International
	01	02		01
Workshop	02			
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			

Name: VIKASKUMARTIWARI




Date of Birth	20-09-1989			
Designation	Lecturer			
Department	EEE			
Date of Joining	01-10-2012			
Unique ID	1-1421147043			
Educational Qualification	M.Tech			
Area of Specialization	Power System Engineering			
Courses taught at Diploma/Post /UG/PG diploma level	Measurement, Power system, Electrical Machines I and II, Instrumentation System, Utilization of Electrical energy, Network Theory			
Total Experience	Teaching	Industry	Research	Others
	09 YRS	6 Months		
Research paper Published	National :-		International :-	
Paper presented In	Conference 04	National NA		International NA
Workshop	NA			
Phd Guide?	Field NA		University NA	
Phds Project Guided	NA			
Book published /IPRs/Patents	NA			
Professional Membership	NA			
Project Carried out	NA			
Technology Transfer	NA			
Consultancy Activity	NA			
Rewards	NA			

Name:ADITIMUNDA				
DateofBirth	28/11/1997			
Designation	Lecturer			
Department	EEE			
DateofJoining	5-07-21			
UniqueID				
EducationalQualification	B.Tech			
AreaofSpecialization	Electrical Engg.			
Courses taught at Diploma/Post /UG/PG diploma level	ELECTRICAL TECHNOLOGY, ELECTRONICS ENGINEERING, NT			
Total Experience	Teaching	Industry	Research	Others
	1.3 Yrs.	NIL	NIL	NIL
Research paper Published	National :- NIL		International :- NIL	
Paper presented In	Conference	National		International
	NIL	NIL		NIL
Workshop	NIL			
Phd Guide?	Field NA		University NA	
Phds Project Guided	NA			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			

Name : Lily lakra





DateofBirth	25-03-95			
Designation	Lecturer			
Department	EEE			
DateofJoining	19-04-22			
UniqueID				
EducationalQualification	B.Tech			
AreaofSpecialization	Electrical and Electronics Engg.			
Courses taught at Diploma/Post /UG/PG diploma level	UEE, PP			
TotalExperience	Teaching	Industry	Research	Others
	01 month	NIL	NIL	NIL
Research paper Published	National :- NIL		International :- NIL	
Paper presented In	Conference	National		International
Workshop	NIL			
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			


Name : Ruchi Kujur				
DateofBirth	20-03-95			
Designation	lecturer			
Department	EEE			
DateofJoining	19-04-22			
UniqueID				
EducationalQualification	BE			
AreaofSpecialization	Electrical and Electronics			
Courses taught at Diploma/Post /UG/PG diploma level	Machine 1, PP			
TotalExperience	Teaching	Industry	Research	Others
	02	NIL	NIL	NIL
Research paper Published	National :- NIL		International :- NIL	
Paper presented In	Conference	National		International
	NIL	NIL		NIL
Workshop	NIL			
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			


Name: Anshu Mala Kispotta



Date of Birth	31-05-89			
Designation	lecturer			
Department	Electronics & Communication Engineering			
Date of Joining	05-07-21			
Unique ID				
Educational Qualification	M.Tech			
Area of Specialization	Control System			
Courses taught at Diploma/Post /UG/PG diploma level	Optical Fiber Communication, Communication System, Analog Electronics, Digital Electronics, Embedded System, Basic Electronics			
Total Experience	Teaching	Industry	Research	Others
	5.9 yrs.	1.6 yrs.	NIL	NIL
Research paper Published	National :- NIL		International :- 01	
Paper presented In	Conference	National		International 01
Workshop	NIL			
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	PID control Strategy in network control System			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			

Name : NEHANUPOORMUNDU				
Date of Birth	01-02-95			
Designation	lecturer			
Department	ECE			
Date of Joining	05-07-21			
Unique ID				
Educational Qualification	B.Tech			
Area of Specialization	Electronics & Communication Engineering (Electronic Devices and Circuits)			
Courses taught at Diploma/Post /UG/PG diploma level	Electronic Devices & Circuits, Power Electronics			
Total Experience	Teaching	Industry	Research	Others
	1.4 yrs.	NIL	NIL	NIL
Research paper Published	National :- NIL		International :- 01	
Paper presented In	Conference	National		International
	NIL	NIL		NIL
Workshop	NIL			
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			
Name: Jemma Tigga				

DateofBirth	24-11-93			
Designation	lecturer			
Department	ECE			
DateofJoining	07-03-22			
UniqueID				
EducationalQualification	M.Tech			
AreaofSpecialization	ECE			
Courses taught at Diploma/Post /UG/PG diploma level	Electromagnetic Field Theory, Advance Communication System, Satellite Communication, Microwave, Communication System, Control System.			
Total Experience	Teaching	Industry	Research	Others
	3.8 yrs	01	NIL	NIL
Research paper Published	National :- NIL		International :- 01	
Paper presented In	Conference	National		International
	NIL	NIL		NIL
Workshop	04			
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			
Name : Name: Srity Kerketta 				
DateofBirth	25-12-90			
Designation	lecture			
Department	ECE			

DateofJoining	07-03-22			
UniqueID				
EducationalQualification	B.Tech			
AreaofSpecialization	ECE			
Courses taught at Diploma/Post /UG/PG diploma level	EDC, EMBEDDED SYSTEM, DIGITAL COMMUNICATION, MICROCONTROLLER, DIGITAL TECHNIQUES AND MICR OPROCESSOR, EEM, MOBILE COMMUNICATION			
Total Experience	Teaching	Industry	Research	Others
	3.9 yrs	2 yrs	NIL	NIL
Research paper Published	National :- NIL		International :- NIL	
Paper presented In	Conference	National		International
	NIL	NIL		NIL
Workshop	03			
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			
Name : Basudeo Mahato 				
DateofBirth	15-09-93			
Designation	Lecturer			
Department	1 st Year			
DateofJoining	20-04-22			
UniqueID				
EducationalQualification	M.Tech			

Area of Specialization	CSE			
Courses taught at Diploma/Post /UG/PG diploma level	Computer Science			
Total Experience	Teaching	Industry	Research	Others
	11 month	NIL	NIL	NIL
Research paper Published	National :- NIL		International :- NIL	
Paper presented In	Conference	National		International
	NIL	NIL		NIL
Workshop	NIL			
Phd Guide?	Field		University	
Phds Project Guided	NIL			
Book published /IPRs/Patents	NIL			
Professional Membership	NIL			
Project Carried out	NIL			
Technology Transfer	NIL			
Consultancy Activity	NIL			
Rewards	NIL			

9. **Fee**

- Details of fee, as approved by State Fee Committee, for the Institution

Particular	Fee
Tuition Fee	46900/-
Development Fee	2300 /-
Admission/Registration Fee	2000 /-
Internal Examination Fee	2000 /-
Caution Money/Security Fee	5000 /-
Identity Card	100 /-

- Time schedule for payment of fee for the entire programme:- **First week of the beginning of every academic session**
- No. of Fee waivers granted with amount and name of students:-
No. of Fee waivers granted:- **15 in Each Batch**
Waived Amount : - **Tuition Fee (46900/-)**
Name of the Tuition Fee Waiver Students:

Sl.No.	Name of Student	Branch	Batch
1	Gagan Vishwakarma	Mechanical Engineering	2019-22
2	Baibhaw Kumar Pandey	Mechanical Engineering	
3	Prabhat Kumar	Mechanical Engineering	
4	Harjot Singh	Mechanical Engineering	
5	Akhilesh Mahli	Mechanical Engineering	
6	Ajay Kumar Das	Mechanical Engineering (Lateral Entry)	
7	Arshi Tamanna	Electrical and Electronics Engineering	
8	Santosh Kumar Mahato	Electrical and Electronics Engineering	
9	Mayank Kumar	Electrical and Electronics Engineering	
10	Anshu Kumari	Electronics and communication Engineering	
1	Vishnu Kumar Keshri	Mechanical Engineering	2020-23
2	John Paul Barla	Mechanical Engineering	
3	Deepraj Minj	Mechanical Engineering	
4	Bijay Kujur	Mechanical Engineering	
5	Prakash Kumar Singh	Mechanical Engineering	
6	Abhinav Kaushik	Electrical and Electronics Engineering	
7	Kundan Kumar Choudhary	Electrical and Electronics Engineering	

8	EhteshamAlam	ElectricalandElectronicsEngineering	2021-24
9	AbhishekSingh	ElectricalandElectronicsEngineering	
10	MukeshChoudhary	ElectricalandElectronicsEngineering	
11	AkashKumarSharma	ElectricalandElectronicsEngineering	
12	AnkitKumar	ElectronicsandCommunicationEngineering	
13	DollyLakra	ElectronicsandCommunicationEngineering	
1	Anis Gupta	ElectronicsandCommunicationEngineering	
2	Amit Sudeep Minj	ElectronicsandCommunicationEngineering	
3	Manish Kumar Nayak	ElectronicsandCommunicationEngineering	
4	Aman Kumar	ElectricalandElectronicsEngineering	
5	Sunny Raj	ElectricalandElectronicsEngineering	
6	Jayant Ekka	ElectricalandElectronicsEngineering	
7	Mithelsh Mahli	Mechanical Engineering	
8	Aditya Kumhar	Mechanical Engineering	
9	Demian Nihil Ekka	Mechanical Engineering	
10	Anjela Khalkho	Mechanical Engineering	
11	Anuradha Kumari	ElectricalandElectronicsEngineering	

- No.ofScholarshipofferedbytheInstitution,durationandamount:-

Name of Scholarship offered	Duration	Amount
JharkhandE-kalyan Scholarship	AsperStateGovt.Norms	AsperStateGovt.Norms
Moma Scholarship (forMinorityStudents),	AsperStateGovt.Norms	AsperStateGovt.Norms

- Criteriaforfeewaivers/scholarship:-**DecidedbyStateGovt.offharkhand**
- EstimatedcostofBoardingand LodginginHostels

ST&SC	OBC	GEN
1250/-	1350/-	1500/-

10. Admission

- Numberofseatssanctionedwiththeyearofapproval:-**300+15(TFWS)**
- NumberofStudentsadmittedundervariouscategorieseachyearinthelastthreeyears:-

Category	ST	SC	BC	Gen
2019-20	53	03	34	44
2020-21	61	07	30	41
2021-22	51	4	16	9

- Number of applications received during last two years for admission under

Management Quota and number admitted:- *N.A.*

11. Admission Procedure

- Mention the admission test being followed, name and address of the attesting Agency and its URL (website) :- ***Jharkhand Combined Entrance Competitive Examination Board, Science & Technology Campus, Sirkha Toli, Namkum, Ranchi- 834010, Website:-<http://jceceb.jharkhand.gov.in>***
- Number of seats allotted to different Test Qualified candidate separately (AIEEE/CET(State conducted test/ University tests/CMAT/GPAT)/Association conducted test):- ***100% Seats are allotted by JCECEB, Govt. of Jharkhand.***
- Calendar for admission against Management/vacant seats:- ***As decided by State Govt. of Jharkhand.***
- **The policy of refund of the fee, in case of withdrawal, shall be clearly notified:-**

<i>AICTE</i>	<i>Refund</i>	<i>Policy:-</i>
<p>In the event of a student/candidate withdrawing before the starting of the courses, the entire fee collected from the student, after a deduction of the processing fee of not more than Rs.1000/- (Rupees One Thousand only) shall be refunded/returned by the Institution. It would not be permissible for Institutions to retain the School /Institution Leaving Certificates in original. If a student leaves after joining the course and if the vacated seat is consequently filled by another student by the last date of admission, the institution must refund the fee collected after a deduction of the processing fee of not more than Rs.1000/- (Rupees One Thousand only) and proportionate hostel rent, where applicable in case the vacated seat is not filled, the institution should refund the security deposit and return the original documents. Institution should not demand fee for the subsequent years from the students cancelling their admission at any point of time. Fee refund along with the return of certificates should be completed within 7 Days.</p>		

12. Criteria and Weightages for Admission:- *Decided by State Govt. of Jharkhand*

13. List of Applicants-

1. ***All seats are allotted against the vacant seats by JCECEB, Govt. of Jharkhand.***
2. ***No Management Quota has been provided to the Institute by State Govt. of Jharkhand***

14. Results of Admission Under Management seats/Vacant seats-

1. ***All seats are allotted against the vacant seats by JCECEB, Govt. of Jharkhand.***
2. ***No Management Quota has been provided by State Govt.***

6. Information of Infrastructure and Other Resources Available

- Number of Class Rooms and size of each:-

Sl. No.	Room.No.	RoomType	Carpet Area(InSq. m)
1	AF1EEC - 1	Classroom	91.63
2	AF1EEC - 2	Classroom	89.78
3	AF1EEC - 3	Classroom	89.32
4	AF2ECC - 1	Classroom	90.09
5	AF2ECC - 2	Classroom	90.09
6	AF2SCC- 1	Classroom	100.1
7	AF2SCC- 2	Classroom	89.32
8	AF2SCC- 3	Classroom	126.36
9	AF2SCC- 4	Classroom	124.32
10	AF2SCC- 5	Classroom	83.07
11	AFGMEC-1	Classroom	89.32
12	AFGMEC-2	Classroom	89.32
13	AFGMEC-3	Classroom	90.47
14	AF1CMS-1	Classroom	85.84
15	AF1CMS-2	Classroom	86.58

- **NumberofTutorialroomsandsizeofeach**

Sl.No	Room.No.	RoomType	Carpet Area (InSq.m)
1.	AF1EETU-2	TutorialRoom	33.96
2	AF2ECTU-3	TutorialRoom	34.65
3	AF2SCTU-4	TutorialRoom	77.22
4	AFGMETU-1	TutorialRoom	33.96

- **NumberofLaboratoriesandsizeofeach**

Sl.No	Room.No.	RoomType	Carpet Area (InSq.m)
1	AF1ECL-1	Laboratory	86.58
2	AF1ECL-2	Laboratory	86.58
3	AF1ECL-3	Laboratory	80.96
4	AF2ECL-4	Laboratory	86.58
5	AF2ECL-5	Laboratory	86.58
6	AF2ECL-6	Laboratory	86.58
7	AF2ECL-7	Laboratory	86.58
8	AF2MEL -1	Laboratory	96.2
9	AF2SCL-1	Laboratory	160.29
10	AF2SCL-2	Laboratory	163.03
11	AF2SCL-3	Laboratory	163.03
12	BF1EEL-1	Laboratory	89.79
13	BF1EEL-2	Laboratory	83.79
14	BF1EEL-3	Laboratory	83.06
15	BF1EEL-4	Laboratory	68.16
16	BF2EEL- 5	Laboratory	72.7
17	BF2EEL- 6	Laboratory	72
18	BF2MEL- 1	Laboratory	66
19	BF2MEL- 2	Laboratory	66
20	CF1MEL-3	Laboratory	66
21	CF1MEL-4	Laboratory	66
22	CF1MEL-5	Laboratory	66
23	CF1MEL-6	Laboratory	66
24	CFGMEL-7	Laboratory	108
25	CFGMEL-8	Workshop	201
26	CF1ME-10	Workshop	320

- **NumberofDrawingHallswithcapacityofeach-**

No.ofDrawingHall	Capacity
02	120

- **NumberofComputerCenterswithcapacityofeach**

Sl.No	ComputerCentre	Capacity
1	ComputerLab-1	60
2	ComputerLab-2	60

3	LanguageLab	30
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- Central Examination Facility, Number of rooms and capacity of each – *NA*.
- Barrier Free Built Environment for disabled and elderly persons – **Ramp with Two Lifts Available**
- Occupancy Certificate – **Available**
- Fire and Safety Certificate – **Available**
- Hostel Facilities – **Available**
- **Library**
 - Number of Library books/Titles/Journals available (program-wise)

Program	No. of Library Books	Titles	Journals
Diploma in Mechanical Engineering	1919	175	03
Diploma In Electrical and Electronics Engineering	1142	104	03
Diploma in Electronics and Communication Engineering	1354	148	03
1 st Year and Other Books (Common for all Branch)	2857	312	

- List of online National/International Journals subscribed – *NA*
- E-Library facilities – *NA*
- **Laboratory and Workshop**
 - List of Major Equipment/Facilities in each Laboratory/Workshop

DEPARTMENT OF MECHANICAL ENGINEERING

SEMESTER:-3RD

SUBJECT:-ENGINEERING MECHANICS LABORATORY

SL. NO.	NAME OF EQUIPMENTS
1	Universal force table
2	Law of moment apparatus
3	Simple jib crane apparatus
4	Co-efficient of friction apparatus
5	Centre of gravity apparatus
6	Worm & worm wheel
7	Simple screw jack
8	Single purchase winch crab
9	Double purchase winch crab

SUBJECT:-STRENGTH OF MATERIALS LAB.

SL. NO.	NAME OF EQUIPMENTS
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1	UniversalTestingMachine
2	BrinalHardnessTester
3	RockwellHardnessTester
4	Charpy&IzodImpactTester
5	Torsiontestapparatus

SEMESTER:- 4TH

SUBJECT:-MANUFACTURINGTECHNOLOGYLAB.

SL. NO.	NAMEOFEQUIPMENTS
1	Spotweldingmachine
2	TIGweldingmachine
3	MIGweldingmachine
4	Woodenlathemachine
5	Furnace
6	Hearth
7	Blower
8	Anvil
9	Lathemachine
10	Millingmachine
11	RadialDrillmachine
12	BenchDrillmachine
13	BenchGrindermachine
14	SurfaceGrindermachine

SUBJECT:-FLUIDMECHANICSANDMACHINELAB.

SL. NO.	NAMEOFEQUIPMENTS
1	BourdenTubePressureGaugetester
2	BernoullistheoremApparatus
3	VenturymeterApparatus
4	OrificemeterApparatus
5	Hydraulicbenchset-upApparatus
6	LosssthroughFittingsApparatus
7	FrictionlossthroughpipeApparatus
8	Peltonwheelturbine
9	Francisturbine
10	Centrifugalpump
11	Reciprocatingpump

SUBJECT:-THEORYOFMACHINELAB.

SL. NO.	NAMEOFEQUIPMENTS
	Spoketmodal
	Cam&Followerset
	GovernerModel
	PornyBrakeDynamometer

	RopeBrakeDynamometer
	Multiplateclutch
	Balancingofseveralmassesinsingleplan
SUBJECT:-THERMALENGINEERINGLAB.	
SL. NO.	NAMEOFEQUIPMENTS
1	ThermalConductivityTestApparatus
2	StefanBoltzmanApparatus
3	HeatExchanger
4	LancashireBoilerModel
5	BoilerMounting&accessories(set)

SEMESTER:- 5TH**SUBJECT:-POWERENGINEERINGLAB.**

SL. NO.	NAMEOFEQUIPMENTS
1	Twostrokesinglecylinderpetrolengine(cutsection)
2	Fourstrokesinglecylinderpetrolengine(cutsection)
3	Singlecylinderpetrolengine
4	DieselEngine
5	Morsetest
6	TwostageReciprocatingcompressortestrig
7	Refrigerationtestrig
8	IcePlantTestRig
9	AirconditionSystem

SUBJECT:-ADVANCEMANUFACTURINGPROCESSLAB.

SL. NO.	NAMEOFEQUIPMENTS
	CNCLathemachine
	CNCmillingmachine

SUBJECT:-METROLOGYANDQUALITYCONTROL LAB.

SL. NO.	NAMEOFEQUIPMENTS
1	Surfaceplate
2	V-Block
3	SpiritLevel
4	Combinationset
5	Fillergauge
6	Screwpitchgauge
7	Radiusgauge
8	Verniercaliper
9	Micrometer(inside&outside)
10	Slipgauge
11	Sinebar
12	Opticalflat
13	Screwthreadmicrometer
14	Dialindicator
15	Gear tooth Vernier caliper
16	Profile projector

SUBJECT:-POWERPLANTENGINEERINGLAB.(Elective-I)

SL. NO.	NAMEOFEQUIPMENTS
1	HydroElectricPowerPlant(modal)
2	SteamPowerPlant(workingmodal)
3	GasTurbine(non-workingmodel)
4	NuclearPowerPlant(non-workingmodel)

SL. NO.	NAME OF EQUIPMENTS
1	Diaphragm type single plate clutch
2	Coil spring type single plate clutch
3	Synchromesh gearbox
4	Differential
5	Rack & pinion steering gearbox
6	Telescopic shock absorber
7	Hydraulic brake system
8	Battery charging system (model)

SEMESTER:- 6TH

SL. NO.	NAME OF EQUIPMENTS
1	Pneumatic trainer kit
2	Hydraulic Shaper m/c (working model)

SL. NO.	NAME OF EQUIPMENTS
1	Strain Gauge
2	Stroboscope
3	Rotameter
4	Inductive transducer
5	Thermocouple
6	Thermistor
7	Load cell

SL. NO.	NAME OF EQUIPMENTS
1	Photovoltaic cell
2	Biogas plant model (non-working)

DEPARTMENT OF ELECTRICAL AND ELECTRONICSENGINEERING

SEMESTER:- 2nd & 4TH

SUBJECT:-WORSHOP-II(for all branch in 2nd sem. and EEE branch in 4TH sem.)	
SL.NO.	NAME OF EQUIPMENT
1	Wiring practice board
2	Bearing puller
3	Cutter
4	Coil winding machine
5	Chisel cold
6	Crimping tool
7	Claw hammer
8	Electric hand drill machine
9	Firmer chisel
10	File flat
11	Hacksaw frame (adjustable)
12	Hand drill machine,
13	Megger (insulation tester)
14	Mobile toolkit (screwdriver set)
15	Plier
16	Pincer
17	Pulley puller
18	Poker
19	Soldering iron
20	Screwdriver
21	Screwdriver set
22	Try square
23	Wire gauge
24	Hammer cross pin
25	Steel rule
26	Earth resistance tester

SEMESTER:- 3RD**SUBJECT:-ELECTRICALENGINEERINGLAB.**

SL. NO.	NAME OF EQUIPMENT
1	Dcsource(5v,5amp)
2	V- Icharacteristicsofincandescentlampandtimefusingcurrentcharacteristicsoffuse
3	DCmachineopen partsset
4	Singlephasemotor
5	Superpositiontheoremtrainer
6	Thvenin'stheoremtrainer
7	Nortontheoremtrainer
8	Maximumpowertransfertheorem
9	Singlephaseenergymeter(electronics)
10	Singlephasetransformer(1KVA)
11	Studyofsolarcellcharacteristicsapparatus
12	Breadboardwithdcsource(port)

SUBJECT:-MEASUREMENTLAB.

SL. NO.	NAME OF EQUIPMENT
1	Hay'sbridgeset
2	Scheringbridgewithinbuiltdigitalnulldetector,sinewaveoscillator
3	Maxwellinductancebridgewithinbuiltdigitalnulldetector,sinewaveoscillator
4	LVDTtrainerapparatus
5	LCR-qmeterdigital(directqmeasurement)
6	LCRmeter(handheld,portable)
7	DigitaltonguetestercumMultimeter
8	Megger
9	Wheatstonebridge(portable)withMFRrésistancewithboard
10	Kevin'sbridgeindustrialwithdcsource
11	Energymeter(1-phase)

SEMESTER:-4TH

SUBJECT:-NETWORKTHEORYLAB.

SL.NO. NAMEOFEQUIPMENT

- 1 CRO
- 2 Signalgenerator
- 3 Panelsetwith1-phase&3-phaseforexperimentforbothlab(measurementandnetworktheory)
- 4 Resistiveloadbank(1-phase&3-phase)
- 5 Capacitorloadbank(1-phase&3-phase)
- 6 Inductiveloadbank(1-phase&3-phase)
- 7 DSO
- 8 RLCseries¶llelresonanceapparatus
- 9 Capacitordecadebox
- 10 Variac(threephaseandsinglephase)

SUBJECT:-ELECTRICMACHINE-ILAB.

SL. NO.	NAMEOFEQUIPMENT
1	Insulationtester
2	Shuntgeneratorcoupledwithmotor&panel
3	DCshuntmotor withpanel
4	DCseriesmotorwithloadarrangement&panel
5	DCshuntmotorwithloadarrangement&panel
6	Rectifier(30kw)
7	Singlephasetransformerwithpanel
8	Threephasetransformerwithpanel
9	Threepointstarterforstudy
10	Fourpointstarterforstudy

SEMESTER:-5TH**SUBJECT:-ELECTRICALMACHINE-IILAB.**

SL. NO.	NAMEOFEQUIPMENT
1	Threephaseslipringinductionmotorwithcontrolpanel
2	Tachometeranalog
3	Tachometerdigital
4	Threephasesquirrelscageinductionmotorwithcontrolpanel
5	Motorgeneratorsetwithpanel(DCtoAC)
6	Motorgeneratorsetwithpanel(ACtoDC)
7	ACmachinestarter(DOL)
8	ACmachinestarter(S-Dmanual)
9	ACmachinestarter(S-Dsemiauto)
10	ACmachinestarter(S-Dauto)
11	ACmachinestarter(autoTRFtype)
12	Paralleloperationofthreephasealternatorwithcontrolpanel

SUBJECT:-CONTROLSYSTEMLAB.

SL.NO.	NAMEOFEQUIPMENT
1	Linearsystemsimulator
2	ACpositionservosystem
3	DCpositionservosystem

SEMESTER:-6TH**SUBJECT:-CONTROLSYSTEM**

SL. NO.	NAMEOFEQUIPMENT
1	StudyofV-IcharacteristicsofanSCR&TRIAC
2	Studyoffull&halfwaverectifierusingSCR&UJT
3	StudyofMorgan'schopper

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SEMESTER:-2nd

SUBJECT:-ELECTRONICS WORKSHOP

SL. NO.	NAME OF EQUIPMENT
1.	Analog multimeter
2.	breadboard
3.	Casio analog multi meter
4.	Function generator
5.	Soldering iron
6.	CRO
7.	soldering stand
8.	De-soldering Pump

SEMESTER:- 3rd

SUBJECT:-BASIC ELECTRONICS

SL. NO. NAME OF EQUIPMENT

1. Common base transistor amplifier
2. Common emitter transistor amplifier
3. FET characteristics kit
4. Half wave and full wave rectifier
5. PN junction diode kit
6. Single stage common emitter amplifier
7. Zener diode V-I characteristics kit
8. Transistor characteristics kit
9. Zener diode Voltage stabilization kit

SUBJECT:-ELECTRICAL & ELECTRONICS MEASUREMENT

SL. NO.	NAME OF EQUIPMENT
1.	Hays bridge
2.	Hygrometer
3.	Kelvin's double bridge
4.	LVDT kit
5.	Maxwell bridge
6.	Strain gauge
7.	RTD kit
8.	Shearing Bridge
9.	Wien's bridge
10.	Venturi meter
11.	Dead gauge Tester
12.	Wheatstone bridge
13.	Tachometer
14.	Temperature measurement using AD590
15.	Load cell trainer kit
16.	Speed measurement using magnetic sensor

17.	Stroboscope
18.	Common collector trainer kit
19.	Single phase energy meter setup
20.	Power measurement setup
21.	Water level measurement setup
22.	3 phase energy meter setup
23.	PMMCD instrument
24.	RMS, peak average and AC signal kit
25.	LCR Q meter
26.	DSO
27.	Function Generator
28.	CRO

SEMESTER:-4th

SUBJECT:-COMMUNICATIONS SYSTEM LAB.

SL.NO. NAME OF EQUIPMENT

1. AM/FM radio receiver kit
2. Amplitude modulation and demodulation
3. Analog sampling and reconstruction
4. DSB/SSB AM receiver kit
5. DSB/SSB AM transmitter kit
6. Data forming and carrier modulation transmitter trainer kit
7. FM radio with amplifier setup
8. FM transmitter trainer kit
9. FM receiver kit
10. Adaptive delta modulation
11. Analog modulation, including PAM, PWM and PPM modulation and demodulation
12. ASK modulation and demodulation kit
13. Delta modulation and demodulation
14. FM modulation and demodulation kit
15. FSK modulation and demodulation kit
16. PAM modulation and demodulation kit
17. PPM modulation and demodulation kit
18. PSK modulation and demodulation kit
19. PCM modulation and demodulation kit
20. QAM modulation and demodulation kit
21. TDM pulse code modulation and demodulation kit
22. MATLAB software (60 users)

SUBJECT:-PRINCIPLE OF DIGITAL TECHNIQUE AND MICROPROCESSOR

SL.NO.	NAME OF EQUIPMENT
1.	Digital IC trainer
2.	Digital multimeter
3.	Logic gate kit
4.	RS flip flop kit
5.	SISO shift register
6.	ALU
7.	Analog converter 4/8 bit D/A
8.	Multiplexer and de-multiplexer kit
9.	ALU
10.	Microprocessor 8085 kit
11.	RAM circuit using IC 7489 kit

SEMESTER:-5th**SUBJECT:-POWEELECTRONICSLAB.**

SL.NO.	NAMEOFEQUIPMENT
1.	Characteristicsofthyrister
2.	DCmotorTRIAC kit
3.	Jon's chopper
4.	Morgan'schopper
5.	PhasecontrolusingTRAIC
6.	Relaxationoscillator
7.	SCRkit
8.	SCRphasecontrolkit
9.	SCRhalfwavefullwave kit
10.	IGBTcharacteristicskit

SUBJECT:-MICROCONTROLLER&EMBEDEDESYSTEMLAB.

SL.NO.	NAMEOFEQUIPMENT
1.	ADC 0809interface
2.	DualDACinterface
3.	Microcontrollerkit
4.	8051computerinterfacing
5.	MicrocontrollerDAC8051
6.	DC motor
7.	steppermotor drivercard
8.	ADCIC 0808,0809 kit
9.	8031microcontrollertrainerkit

SUBJECT:- LINEARINTIGRATEDCIRCUITLAB.

1.	Activefilterusingopamp
2.	ApplicationofIC555
3.	characteristicsofopamp
4.	IC555A-stablebi-stablemono-stablemultivibrator
5.	LinearICtrainer
6.	LinearICtester
7.	Logarithmicandantilogarithmic
8.	Parameterofopamp
9.	OPampbasedsinusoidalandnonsinusoidalwavegenerator
10.	OPampas V-IandI_Vconverter
11.	OPampasintegratoranddifferentiatorkit
12.	OPampasinverting,non-invertingsummingkit
13.	Opampasalgorithmicamplifier
14.	OP amp as a summing and scaling average, window detector and zero crossing detector
15.	Opampasainverting,noninvertingsumminganddifferenceamplifier withdigitalvoltmeterkit
16.	Wien'sBridgeoscillatorusing741
17.	Frequencyresponseofsecondorderbutter worthlowpassfilter
18.	FrequencyresponseofsecondorderbutterworthHigh passfilter

19.	Bandpassfilter
20.	Precisionrectifier

SEMESTER:-6th

SUBJECT:-ADVANCECOMMUNICATIONLAB.

SL.NO.	NAMEOFEQUIPMENT
1.	Analogfiberopticalvoicetransmissionsetup
2.	BunnDiodekit
3.	Dataformattingandcarrierdemodulationreceiver
4.	Lasercharacteristics
5.	LEDcharacteristicstrainerkit
6.	Phototransistorkit
7.	Photodiodekit
8.	Polarpatternandgaincharacteristicsofantennasetup
9.	Reflexklystronsetup
10.	Microwavecomponent(MagicT,circulator, isolator)setup

SUBJECT:-AUDIOVIDEOLAB.

SL.NO.	NAMEOFEQUIPMENT
1.	colortelevisionDemonstrator
2.	CDplayer
3.	DVDplayertrainerkit
4.	LEDTV trainerkit

SUBJECT:- MOBILECOMMUNICATIONLAB.

1.	EPBAXsetup
2.	Mobiletrainerkit

NameoftheApparatus/ExperimentsinPhysicslab

SlNo.	NameofApparatus
1	VernierCalipers
2	MicrometerscrewGauge
3	Spherometer
4	Young'smodulus
5	StokesTheorem
6	Plunger's
7	Glassslab
8	Resonancetube
9	S.H.M.(Stiffnessconstant)
10	BarPendulum
11	Spectrometerdevice,Sodiumlampetc.
12	Ohm'slaw(Ammeter,voltmeter,key,Drycelletc.
13	GalvanometerandAmmeter(Eliminatoretc.)
14	EnergyGap(forbiddenGap)
15	Photoelectriccell
16	P.N.junction

NameoftheApparatusin Chemistrylab

S.No.	Name
1	Kip's Apparatus
2	Electronic weighing machine
3	Distillation unit
4	pH meter
5	Conductivity meter
6	Physical weighing machine
7	Oven
8	Heater
9	Magnetic stirrer
10	Penskemarten Flashpoint Apparatus
11	Orsat apparatus

- **List of Experimental Setup in each Laboratory/Workshop**

Electrical and Electronics Department

List of Experimental Setup

Semester-II

S.No	WORKSHOP-II
1	Various types of electrical wiring
2	Study of Safety precautions
3	Preparation of different type of joints
4	Wiring of two way switching system
5	Wiring of two bulb, one fan one power point with a fuse connection.
6	Introduction to commonly used equipments, earth resistance measurement
7	Fault finding and repairing of common household appliances

Semester III

S.No.	ELECTRICAL ENGINEERING
1	Connection and measurement of power consumption of various lamps.
2	Measurement of armature and field resistance of DC machine.
3	V-I Characteristics of incandescent lamps and time fusing current characteristics of a fuse.
4	Calculation of current, voltage and power in series R-L-C circuit excited by single phase AC supply and calculation of power factor.
5	Study of various parts of DC machine.
6	Study of single phase induction motor and fan motor.
7	Verification of superposition, Thevenin's and Norton's theorem.
8	Study of single phase energy meter.
9	Open circuit and short circuit test of single phase transformer.
10	Study of solar photovoltaic system

S.No.	ELECTRONICSENGINEERING
1	Forward&Reversecharacteristicsofdiode
2	CharacteristicsofZenerdiode
3	StudyofRectifiers(Halfwave&Fullwave)&Filters(Capacitor&Inductorfilter)
4	Input&OutputCharacteristicsoftransistorinCEmode
5	CharacteristicsofFET
6	CharacteristicsofUJT
7	Load&LiveregulationCharacteristicsofRegulator
8	FrequencyresponseofsinglestageRCcoupledamplifier.
9	ToStudytheV-ICharacteristicsofPNJunctiondiode.
10	Determinationofhparameter.
S.No.	MEASUREMENT-I(Any10Experiment)
1	MeasurementofCurrentandVoltagesbyLowrangeammeterandvoltmeterrespectivelywith shuntandmultiplier
2	CalibrationofWattmeteratvariouspowerfactorsbystandardWattmeter.
3	Measurementofactivepowerin threephasebalancedloadbysinglewattmetermethod.
4	Measurementofactiveandreactivepowerinthreephasebalancedloadbytwowatt meter method
5	Measurementofsinglephasepowerwith3ammetersand3voltmeters.
6	CalibrationofEnergymeterat variouspowerfactorsbystandardenergymeter.
7	Measurementofenergyinsinglephase&threephasebalancedloadusing ElectronicEnergyMeter.
8	MeasurementofLowresistancebyKelvin'sDoubleBridge.
9	MeasurementofMediumresistancebyWheatstonebridge.
10	MeasurementofInsulationResistancebyMegger.
11	MeasurementofResistance,Voltage,Current,Voltage,CurrentinA.C&D.C.Circuit byusingdigitalmultimeter.
12	MeasurementofA.C.Currentbytonguetester.
13	MeasurementofCircuitParametersbyLCRmeter.
14	To measure linear displacement by LVDT and plot characteristics.
15	MeasurementofinductancebyMaxwellBridge.
16	MeasurementofCapacitancebyScheringBridge.
17	MeasurementofinductancebyHay'sBridge.
S.No.	BASICENGINEERING
1	Field visit for identification & Physical Properties of sand, Brick, Cement, Lime Tile and Point.
2	Field Survey of Distance measurement by chain and tape with correction.
3	Angle measurement by prismatic and surveyor compass.
4	Practice of making various types of joints
5	Practice of fabrication with metal flats.
6	Demonstration of Total Station.
7	Field visit of Machine Foundation.

Semester-IV

S.No.	NETWORK THEORY
1	To observe A.C. waveform on C.R.O. and calculate average & R.M.S. Values, frequency, and observe the response of 'Resistance' to AC
2	To observe response of 'Inductor' and 'Capacitor' to AC
3	To determine impedance & Plot the phasor diagram of R-L series circuit.
4	To determine the current and P.F. of R.C. series circuit.
5	To determine the current and P.F. in R.L.C. series circuit
6	To obtain resonance in R-L-C series circuit.
7	To determine the current and P.F. in R.L. Parallel circuit.
8	To determine the current and P.F. in R.C. Parallel circuit
9	To determine the current and P.F. in R.L.C. Parallel circuit
10	To obtain resonance in R-L-C parallel circuit
11	To verify the line and phase values for star connected balanced load.
12	To verify the line and phase values for delta connected balanced load.
13	To verify the Superposition theorem.
14	To verify Thevenin's theorem and Norton's theorem.
15	To verify the maximum power transfer Theorem.
S.No	ELECTRICAL MACHINE-I
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1	Study of different part, identification terminals and testing of insulation resistance of a D.C. machine
2	Determination OCC and external characteristic of shunt generator.
3	Speed variation of D.C. motor by field control armature resistance variation and Ward Leonard method.

4	Determination of efficiency of a DC motor by bracket test.
5	Determination of efficiency of a single phase transformer by direct loading
6	Parallel operation of a single phase transformers
7	Parallel operation of 3 phase transformers
8	Identification of terminals, OC test, SC test and measurement of iron loss, No load current and no load P.F. and measurement of copper loss and computation of Z_{eq} , R_{eq} and X_{eq} of a 1 phase transformer and determination of regulation
9	Study of a 3-point/ 4-point starter for connecting and running a shunt motor
10	Study of drum controller for connecting and running of DC series motor



S.No	DIGITAL CIRCUITS & MICROPROCESSOR
1	To verify the truth table of logic gates realize AND, OR, NOT gates.
2	To realize AND, OR gates using diodes and resistors
3	To verify the Boolean algebra function using digital IC gates (consensus theorem).
4	To realize the function $F(A,B,C,D) = (C+D)(A+B)(B+D)$ neither using NOR gates.
5	Design a half/full adder circuit using FF for 2 bits.
6	Design a half/full subtractor circuit using FF for 2 bits.
7	Design a binary to gray code converter.
8	Design a function using K-map and verify its performance using SOP & POS.
9	Design BCD to seven segment display using 7447 IC.
10	Implement $F(A,B,C) = \Sigma(1,3,4,5,6)$ with a multiplexer.
11	To study 8085 based microprocessor system
12	To load content in one register and shift it to another.
13	To move the content of one memory location to another.
14	To develop and run a program for finding out the largest/smallest number from a given set of numbers.
15	To develop and run a program for arranging in ascending/descending order of a set of number
16	To perform multiplication/division of given numbers.
17	To perform floating point mathematical operations (addition, subtraction, multiplication, and division).
18	To perform computation of square root of a given number



S.No	ELECTRICAL WORKSHOP
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1	Identify the different electrical tools & Accessories used in electrical Installation
	Concept of gauge & switches
2	Different types of Joints used in overhead lines/underground cable/electrical wiring.
3	Different types of wiring like casing, conduct beat, concealed conduct.
4	Fluorescent tube wiring.
5	Wire up a call bell/buzzer
6	Identify this mantle, sketch and assemble different electrical appliances.
7	Preparation of distribution board having 3 pin socket, tube controlled by independent switch.
8	Wiring circuits for staircase
9	Wiring of Main Board with ICDP (main switch) and distribution fuse Box with MCB.
10	Prepare and wire, amount single phase energy meters.
11	Study and install household earthing.
12	Measurement of Earth Resistance.
13	Study of RCCB

Semester-V

S.No	INSTRUMENTATION SYSTEM LAB
1	To determine output characteristic of a LVDT and determine its Sensitivity.
2	Study characteristics of temperature transducer like Thermocouple, Thermistor and RTD with implementation of small project using signal conditioning circuit.
3	Study characteristics of Light transducer like Photovoltaic cell, Phototransistor and Pin Photodiode with implementation of small project using signal conditioning circuit.
4	To study input-output characteristics of a potentiometer and to use two potentiometers as an error detector.
5	To study transmitter- receiver characteristics of a synchro set to use these as control component.
6	To study the operation of a d-c positional servo system and to investigate the effect of damping and supply voltage on its response.
7	To study the operation of an a.c. position servo-system and to obtain effects of supply voltage and system parameter on its transient response.
8	To study a stepper motor and control its directions speed and number of steps with the help of microprocessor
9	AD Converter
10	DAC converter
11	Study of Automation system
12	Intelligent controller

S.NO.	ELECTRICAL MACHINE-II
1.(A)	To measure the slip of 3-phase IM by
	i) Tachometer
	ii) Comparing rotor & stator frequency
	iii) Stroboscopic method
1.(B)	To reverse the direction of rotation of 3-phase IM.
2	To measure the performance of 3-phase IM by direct loading
3	To list different types of starters used for 3-phase IM. Identify & use the same to start & run 3-phase IM
4	Using an MG set (DC motor-Alternator) observe the effect of excitation & speed on induced e.m.f. & plot O.C.C. of the given alternator.
5	To find the percentage regulation of 3-phase alternator by synchronous impedance method at various power factors.
6	To find the percentage regulation of 3-phase alternator by direct loading method at various power factors.
7	To list & explain various starting methods of synchronous motor & applying one of them to start the synchronous motor. Plot V & inverted V curve of the same.
8	To list the various types of 1-phase IM, Collect the literature for them from dealers/manufacturers of local places & compare on the following pts. i) Method of starting ii) Cost iii) Performance iv) Starting torque etc. Prepare a report

S.NO.	MICROPROCESSOR & MICROCONTROLLER (ELECTIVE-I)
1	Basic arithmetic and Logical operations
2	Move a data block without overlap
3	Code conversion, decimal arithmetic and Matrix operations.
4	Floating point operations, string manipulations, sorting and searching
5	Password checking, Print RAM size and system date
6	Counters and Time Delay
7	Traffic light control
8	Stepper motor control
9	Digital clock
10	Keyboard and Display
11	Printer status
12	Serial interface and Parallel interface
13	A/D and D/A interface and Waveform Generation using 8051
14	Basic arithmetic and Logical operations
15	Square and Cube program, Find 2's complement of a number
16	Unpacked BCD to ASCII

S.NO.	PROGRAMMABLE LOGIC CONTROLLER (ELECTIVE-I)
1	Based on the theoretical paper, faculty will be decide minimum 10 Experiments to be performed by the Students.
S.NO.	MAINTENANCE OF ELECTRICAL MACHINES (ELECTIVE-II)
1	Safety precautions in lab while doing electrical work
2	Safety equipments study
3	Winding of Fan coil
4	Winding of single motor
5	Winding of three phase motor
6	Repairing of single phase transformer
7	Repairing of wiring system
8	Installation of machine
9	Repairing of starter
10	Repairing of mains
11	Study of various types of MCB and other circuit breakers
S.NO.	CONTROL SYSTEM (ELECTIVE-II)
1	Transfer function of first and second order system
2	Sensor system control system study
3	AC position servo system study
4	DC position servo system study
5	Control through magnetic amplifier
6	Measurement of passive elements R, L and C using Bridge Networks
7	Study of transducers and characterization
8	Digital simulation of linear systems
9	Stability Analysis of Linear system using MATLAB or equivalent Software
10	Study the effect of P, PI, PID controllers using MATLAB or equivalent Software or with conventional methods.
11	Study of Lead and Lag compensator

Semester-VI

S.No	POWER ELECTRONICS
1	Study of v_f - i characteristics of an SCR.
2	Study of v_f - i characteristics of a triac.
3	Study of different triggering circuits for thyristor.
4	Study of uni-junction transistor (UJT) triggering circuit.

5	Study of a firing circuit suitable for single phase half controlled convertor.
6	Simulation on the single phase ac-dc uncontrolled convertor with & without the source inductance.
7	Simulation of a single phase ac to controlled dc convertor with & without the source inductance.
8	Single phase half controlled bridge convertor with two thyristors & two diodes.
9	Single phase fully controlled bridge convertor using four thyristors.
10	Pspice simulation of dc to dc step down chopper.
11	Pspice simulation of single phase controller with r-load.
12	Pspice simulation of PWM bridge inverter of r-load using mosfet.
S.No	RENEWABLE ENERGY SOURCES (ELECTIVE-III)
1	Study of Solar Unit
2	Study of Solar Dryer
3	Study of Solar Panels and Storage System.
4	Study of Wind Mills
5	Study of Wind turbine generator
6	Impact of Wind Speed on Turbine Generator
7	Visit to Biogas Plant
8	Generation of Biodiesel from Biomass
9	Study of Wave Energy Generator
10	Study of Hybrid Energy Generation System
S.No	BYE LAWS OF ELECTRICAL ENGINEERS (ELECTIVE-III)
1	Report Writing based on all 9 Topics of theory.
S.No	VLSI (ELECTIVE-IV)
1	Design of basic Gates: AND, OR, NOT.
2	Design of universal gates
3	Design of 2:1 MUX using other basic gates
4	Design of 2 to 4 Decoder
5	Design of Half-Adder, Full Adder, Half Subtractor, Full Subtractor
6	Design of 3:8 Decoder
7	Design of 8:3 Priority Encoder
8	Design of 4 Bit Binary to Grey code Converter
9	Design of 4 Bit Binary to BCD Converter using sequential statement
10	Design an 8 Bit parity generator (with for loop and Generic statements)

11	Design of 2's Complementary for 8-bit Binary number using Generate statements Sequential Design Exercises
12	Design of all type of Flip-Flops using (if-then-else) Sequential Constructs
13	Design of 8-Bit Shift Register with shift Right, R-Shift Left, Load and Synchronous reset.
14	Design of Synchronous 8-bit Johnson Counter.
15	Design of Synchronous 8-Bit universal shift register (parallel-in, parallel-out) with 3-state output (IC 74299)
16	Design of 4 Bit Binary to BCD Converter using sequential statement.
17	Design counters (MOD3, MOD5, MOD8, MOD16)
18	Design decimal up/down counter that counts up from 00 to 99 or down from 99 to 00.
19	Design 3-line to 8-line decoder with address latch
S.No	COMMUNICATIONS SYSTEM (ELECTIVE-IV)
1	Based on the theoretical paper, faculty will decide minimum 10 Experiments to be performed by the Students.

DEPARTMENT OF MECHANICAL ENGINEERING

SEMESTER : 1ST
Subject : WORKSHOP-I
Subject Code : 112

EXP.NO.	NAME OF EXPERIMENT
1	CARPENTRY SHOP 1. Introduction. 2. Various types of woods. 3. Different types of tools, machines and accessories. 4. Practice Job a. Preparation of cross lap joints. b. T Lap joints c. Dovetail Joints d. Wood turning
2	FITTING SHOP: 1. Introduction 2. Various marking, measuring, cutting, holding and striking tools. 3. Different fitting operation like chipping, filing, right angle, marking, drilling, tapping etc. 4. Working Principle of Drilling machine, Tapping dies its use. 5. Safety precautions and safety equipment's. 6. Practice 3 Jobs (V groove, Square notch, Fitting of two parts)
3	SHEET METAL SHOP. 1. Introduction

	<ol style="list-style-type: none"> 2. Various types of tools, equipment's and accessories. 3. Different types of operations in sheet metal shop. 4. Soldering and riveting. 5. Safety precautions 6. Practice Jobs (Making funnel, tray, cylinder)
4	TURNING SHOP <ol style="list-style-type: none"> 1. Introduction 2. Various marking, measuring, cutting, holding and striking tools. 3. Working Principle of Drilling machine, Tapping dies its use. 4. Drilling and Tapping 5. Turning: Plain, taper 6. Threading and Knurling 7. Safety precautions and safety equipment's.

SEMESTER: 2ND

Subject : WORKSHOP -

II Subject Code 209

EXP. NO.	NAME OF EXPERIMENT
1	WELDING SHOP <ol style="list-style-type: none"> 1. Introduction to equipments and accessories used in welding 2. Gas, Arc, Spot, welding practice 3. Lap welding practice 4. Butt welding practice 5. Spot welding practice
2	PLUMBING SHOP <ol style="list-style-type: none"> 1. Introduction. 2. Various marking, measuring, cutting, holding and striking tools. 3. Different types of G.I. & PVC pipes, flexible pipes used in practice. 4. Piping layout. 5. G.I. & PVC pipes fittings and accessories, Adhesives solvents-chemical action,
3	Black Smithy Shop <ol style="list-style-type: none"> 1. Introduction to tools and techniques 2. Preparation of commonly used instruments such as flat chisel, ring, screwdriver.

SEMESTER : 3rd

Subject : ENGINEERING MECHANICS LABORATORY

Subject Code : MEC308

EXP. NO.	NAME OF EXPERIMENT
1	To verify law of polygon of forces.
2	To verify law of moments.
3	To verify Lami's theorem.
4	To determine the forces in members of a jib crane.
5	Comparison of coefficient of friction of various pair of surfaces and Determination of angle of repose.
6	To verify force transmitted by members of truss.
7	Experimental location of center of gravity of plane plate of uniform thickness.
8	Find MA, VR, Efficiency, Ideal Effort, Effort lost in friction for various loads and establish law of machine and calculate maximum efficiency of Worm and worm wheel
9	Find MA, VR, Efficiency, Ideal Effort, Effort lost in friction for various loads and establish law of machine and calculate maximum efficiency of Differential axle and wheel
10	Find MA, VR, Efficiency, Ideal Effort, Effort lost in friction for various loads and establish law of machine and calculate maximum efficiency of Simple screw jack.
11	Study of Single purchase winch crab and Double purchase winch crab
12	Study of reversibility of the simple screw jack.

SEMESTER : 3rd

Subject : STRENGTH OF MATERIAL

Subject Code : MEC309

EXP. NO.	NAME OF EXPERIMENT
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1	Hook's Law verification by Searl's apparatus.
2	Study and demonstration of Universal Testing Machine & its attachments.
3	Tension Test on mild steel / Aluminium on UTM.
4	Compression test on cast iron on UTM.
5	Direct Shear Test of mild steel on UTM.
6	Brinell Hardness Test on Mild Steel.
7	Rockwell hardness Test on Hardened Steel.
8	Izod & Charpy - Impact test of a standard specimen.
9	Torsion Test of Mild steel bar.
10	To find Moment of Inertia of a flywheel.

SEMESTER: 4TH

Subject : MANUFACTURING TECHNOLOGY LAB.

Subject Code : MEC407

EXP. NO.	NAME OF EXPERIMENT
1	To make one job on Spot welding machine.
2	One simple job on TIG/MIG welding.
3	Making of one simple wooden Pattern on wood turning lathe.
4	Preparation of green sand mould using single piece and multi-piece pattern with core.
5	Preparation of one simple Job (ex-ring) in forging shop.
6	One job on lathe performing the operations - plain turning, step turning, grooving, knurling, chamfering and thread cutting.
7	One composite job performing the operations - face milling, side and face milling (slotting), drilling/tapping (drilled holes should be perpendicular to slotting operation).
8	One job performing drilling, milling and reaming.
9	Preventive maintenance of Welding machine.
10	Preventive maintenance of lathe.

SEMESTER: 4TH**Subject : FLUID MECHANICS AND MACHINE LAB.****Subject Code : MEC408**

EXP. NO.	NAME OF EXPERIMENT
1	Calibration of Bourden pressure gauge with the help of Dead Weight Pressure gauge.
2	Determine the metacentric height of a floating body.
3	Verification of Bernoulli's Theorem.
4	Determination of Coefficient of Discharge of Venturi-meter.
5	Determination of Coefficient of discharge, coefficient of Contraction and coefficient of velocity of orificemeter.
6	Determination of coefficient of discharge through rectangular notch.
7	Determination of coefficient of discharge through triangular notch.
8	To determine minor losses for flow through pipes.
9	Determination of coefficient of friction of flow through pipes.
10	Trial on Pelton/Francis wheel to determine overall efficiency.
11	Trial on centrifugal pump to determine overall efficiency.
12	Trial on reciprocating pump to determine overall efficiency.

SEMESTER: 4TH**Subject : THEORY OF MACHINE LAB.****Subject Code : MEC409**

EXP. NO.	NAME OF EXPERIMENT
1	To find the ratio of time of cutting stroke to the time of return stroke for quick return mechanism of a shaper machine.
2	Sketch & describe working of bicycle free wheel sprocket mechanism.
3	To find out the height of all types of Governors through Universal Governor Apparatus.
4	Determine the radius of rotation of flyball for different speeds of

	governor and draw a graph between radius of rotation versus speed.
5	Study of different types of CAM and follower through models.
6	Determination of power transmitted by any belt drive using any one dynamometer.
7	Dismantling and assembly of multi-plate clutch of two-wheeler.
8	Balancing of several masses rotating in a single plane by graphical method.
9	Study of gyroscopic model.
10	Study of different types of gears, gear trains and drives through models.

SEMESTER: 4TH

Subject : THERMAL ENGINEERING LAB.

Subject Code : MEC410

EXP. NO.	NAME OF EXPERIMENT
1	Collection of technical data and specification of photovoltaic cell by referring to manufacturer's catalogues.
2	Study of heat transfer and concept of heat exchangers.
3	Study of solar water heating system.
4	Report on visit to wind power generation plant/biogas plant/hydraulic power plant.
5	Calculation of thermal conductivity of a solid metallic rod.
6	Verification of Stefan-Boltzmann's law.
7	Study and compare various heat exchangers such as radiators, evaporators, condensers, plate heat exchangers etc.
8	Trace the flue gas path and water-steam circuit with the help of boiler model and write a report.
9	Study of Babcock and Wilcox Boiler/Lancashire Boiler.
10	Determination of change in velocity of steam with steam nozzle.

SEMESTER: 5TH

Subject : POWER ENGINEERING LAB.

Subject Code : MEC511

EXP. NO.	NAME OF EXPERIMENT
1	Study and running of two stroke petrol and diesel engine.
2	Study and running of four stroke petrol and diesel engine.
3	Performance test of four stroke diesel and petrol engine. (i) Mechanical efficiency (ii) Brake thermal efficiency (iii) Specific fuel consumption/BHP/HR
4	Morse test on (multi cylinder) I.C. engine.
5	Perform experiments on air compressor rig.
6	Try on two-stage Reciprocating compressor.
7	Find the COP of refrigerator.
8	Study of ice plant.
9	Study of domestic refrigerator.
10	Identify the components and trace the flow of refrigerant through various components in window air conditioner.

SEMESTER: 5TH

Subject : Advance Manufacturing Processes

Lab Subject Code : MEC512

EXP. NO.	NAME OF EXPERIMENT
1	Two jobs on CNC lathe containing the operations like plain turning, taper turning and curvature.
2	Two jobs on CNC milling having following operations – face milling, slotting.
3	Study and Report on part programming (using part programming and canned cycle) on machining center.
4	Study and Report on machine tool installation procedure.
5	Dismantling and Assembly of anyone – a) Tailstock on lathe b) Apron Mechanism.

6	Dismantling and Assembly of any one – a) Tapping attachment on drilling machine. b) Lathe Chuck
7	Study and Report on mounting and dismounting procedure of following (any two) – a) Milling machine arbor. b) Vertical milling head. c) Tool post
8	Study and Report on any one of the following USM, CHM.
9	Study and Report on any one of the following EBM, AJM.
10	Study and Report on any one of the following WJM, PAM.

SEMESTER: 5TH

Subject : Metrology & Quality Control Lab. Subject

Code : MEC513

EXP. NO.	NAME OF EXPERIMENT
1	Standard use of basic measuring instruments. Surface plate, v-block, spirit level, combination set, filler gauge, screw pitch gauge, radius gauge, vernier caliper, micrometer and slip gauges to measure dimension of given jobs.
2	To find unknown angle of component using sine bar and slip gauges.
3	Study and use of optical flat for flatness testing.
4	Measurement of screw thread elements by using screw thread Micrometer, screw pitch gauge.
5	Study and use of dial indicator as a mechanical comparator for runout Measurement, roundness comparison.
6	Measurement of gear tooth elements by using gear tooth vernier Caliper and verification of gear tooth profile using profile projector.
7	Testing of machine/ machine tool for flatness, parallelism, Perpendicularity by Dial indicator.

8	Draw the normal distribution curve and find standard deviation, Variance, range.
9	To draw the normal distribution curve and find standard deviation, Variance, range.
10	To draw and interpret the control limit for variable measurement (\bar{X} -bar and R-chart)

SEMESTER : 5TH

Subject : Power Plant Engineering Lab (Elective-I)
Subject Code : MEC515

EXP. NO.	NAME OF EXPERIMENT
1	Study of working principles of various components of hydro-electric power plants.
2	Study of working principles of various components of steam power plants.
3	Study of working principles of various components of gas turbine power plants.
4	Study of working principles of various components of nuclear power plants
5	Visit to steam power plants/nuclear power plants/gas turbine power plants. Hydro-electric power plants and prepare a report.
6	Collection of information & Technical details of Wind power plants.
7	Collect information & Technical details of solar power plants.
8	Assignment on Coal & Ash Handling system.
9	Assignment on Waste Heat recovery systems.
10	Study of economic and operational aspects of power plants (simple numerical).

SEMESTER :5TH

Subject : Automobile Engineering

LabSubject Code : MEC516

EXP. NO.	NAMEOFEXPERIMENT
1	Dismantling&assemblingofasingleplatedryclutchassembly.
2	Dismantling&assemblingofamulti-plateclutchusedintwowheelers, observetheoperatinglinkages.
3	Dismantling&assemblingofanytwotypesofgearboxesobservegear shifting,gearratio&comparethem.Open& observe CVT.
4	Open&observeuniversaljointssuchasHooksuniversaljoint.
5	Dismantling&assemblingthedifferentialunitwithbearinglocations
6	Dismantling&assemblingofanyonetyperearaxle.
7	Dismantling&assemblingofthesteeringgearbox,observethecomponents andsteeringlinkages.
8	Dismantling&assemblingofleafspring.
9	Dismantleandassembletelescopicshockabsorber,observeits Components.
10	Observeanddrawlayoutofhydraulicbrakingsystem.Openmaster Cylinder,wheelcylinder,andbrakedrum.Observe the components.
11	Observeanddrawthelayoutofhydraulicallyoperatedairassistedbrakingsystem.
12	Dismantling&studyofcomponentsofbatteryandfunctionofcharger.
13	Studyofignition,chargingandstartingsystem.
14	Studyoflightingcircuits,fusesanddiagnosisoffaults.

SEMESTER :6TH

Subject : Industrial Fluid Power

LabSubject Code : MEC611

EXP. NO.	NAMEOF EXPERIMENT
1	Demonstrationofmeterinand meteroutcircuit.
2	Demonstrationofsequencing circuit.
3	Demonstration ofhydraulic circuitforshapermachine.

4	Demonstration of pneumatic circuit for speed control of double acting cylinders.
5	Demonstration of pneumatic circuit for speed control of pneumatic motor.
6	Study of troubleshooting procedures of various hydraulic and pneumatic circuits.
7	Selection of circuit components for simple hydraulic and pneumatic circuits.

SEMESTER : 6TH
Subject : **Measurement and Automation**
Lab Subject Code : **MEC612**

EXP. NO.	NAME OF EXPERIMENT
1	Measurement of strain by using a basic strain gauge and hence verify the stress induced.
2	Speed Measurement by using Stroboscope /Magnetic/Inductive Pick Up.
3	Measurement of flow by using a rotameter.
4	Displacement measurement by inductive transducer.
5	Temperature control using Thermal Reed switch & Bimetal switch.
6	Temperature calibration by using Thermocouple.
7	Determination of negative temperature coefficient and calibration of a thermistor.
8	Measurement of force & weight by using a load cell.
9	Report writing on visit to industry having robot Application.
10	Report writing on visit to Industry having Automation in manufacturing.

SEMESTER : 6TH
Subject : **Refrigeration and Air Conditioning**
Lab Subject Code : **MEC615**

EXP.	NAME OF EXPERIMENT
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NO.	
1	Trial on water cooler testing.
2	Trial on ice plant testing.
3	Visit to cold storage.
4	Demonstration of domestic refrigerator in view of construction, operation and controls used.
5	Demonstration of various controls like L.P./H.P. cutouts, thermostat, over load protector, solenoid valve used in RAC.
6	Identification of components of hermetically sealed compressor.
7	Visit to repair and maintenance workshop in view of use of various tools and charging procedure.
8	Cooling load calculations for cabin, classrooms, laboratory, canteen and dairy plant, milk storage, small freezers (minimum one).
9	Trial on A.C. testing.
10	Visit to central A.C. plant in view of ducting system, insulation system and air distribution system (e.g. frozen food industry/ice-cream industry/mushroom pants/textile industries).
11	Troubleshooting of domestic refrigerator/window air-Conditioner.

SEMESTER : 6TH
Subject : Alt. Source Energy
Lab Subject Code : MEC617

EXP . NO.	NAME OF EXPERIMENT
1	To collect information about global and Indian energy market.
2	To perform an experiment on solar flat plate collector used for water heating.
3	To study and analyze performance of Solar street lighting system.
4	To study construction and working of photovoltaic cell.
5	To study construction, working and maintenance of solar cooker.
6	Visit to plant of solar heating system for hotel/hostel/railway station etc.
7	To study construction and working of horizontal axis wind mill or to visit an earnest wind farm.
8	To visit a biomass/biogas plant of municipal waste or elsewhere.

9	Perform energy audit for workshop/Office/Home/SSI unit.
10	Study of various waste heat recovery devices.

DEPARTMENT OF E.C.E

BRANCH/SEMESTER: ECE/EEE/ME(2ndSEM)

SUBJECT: Electronics

Workshop List of Experiment:-

1. Know your Laboratory/General Rules/Safety Rules.
2. Introduction of different type of component.
3. Introduction to CRO and other electronic measuring instrument.
4. Soldering and De-soldering practices.

BRANCH/SEMESTER: ECE(3rdSEM)

SUBJECT: Elect & Electronic

Measurement List of Practical's

1. Instrument workshop- observe the construction of PMMC, Dynamometer, Electrothermal and Rectifier type instrument, Oscilloscope and digital multi-meter.
2. Calibrate moving iron and electro dynamometer type ammeter/voltmeter by potentiometer.
3. Calibrate dynamometer type Wattmeter by potentiometer
4. Calibrate A.C. energy meter.
5. Measure the resistivity of material using Kelvin Double Bridge
6. Measurement of Power using Instrument transformer
7. Measurement of Power in Poly-phase circuits
8. Measurement of Frequency by Wien Bridge using Oscilloscope
9. Measurement of Inductance by Anderson Bridge
10. Measurement of Capacitance by De Sautee Bridge
11. Measurement of frequency by CRO using Lissajous figure
12. Study of two Channel Voltage to Circuit transmitter (V-I Transmitter)
13. Study of two Channel I-V Receiver (Converter).
14. Temperature measurement using AD590 Semiconductor temperature sensor.
15. Displacement measurement by Capacitive Transducer.
16. Pressure & Displacement measurement by Linear Variable Displacement Transducer (LVDT).
17. Study of load cell. (To study the load cell behavior for tensile & compressive load).
18. Torque measurement by Strain Gauge Transducer.
19. Measurement of linear displacement using Inductive Displacement Transducer.
20. Measurement of speed using Magnetic Pick-Up Proximity Sensor.
21. Relative Humidity measurement using Capacitive Transducer.
22. Displacement measurement by Magnetic Bi-Polar Digital Position Sensor (using Hall Effect).
23. Measurement of angular speed by Stroboscope.
24. Studies of L.D.R
25. Studies of Photo Diodes & Photo Voltaic cells.
26. Study of transducers and measurement of parameters.

BRANCH/SEMESTER:ECE(3rdSEM)

SUBJECT: Electromagnetic Field and Waves
List of Practical's

1. Verification of Ohm's Law.
2. To Verify Faraday's Law of Electromagnetic Induction (For Dynamically & Statically Induced EMF).
3. To Verify Superposition Theorem.
4. Study of Waveguide for Transmission Line.
5. To Study EM Wave Radiation and Propagation through Antenna.
6. Design Antenna through Software (Hfss).
7. Simulation of Antenna through Software (Hfss).

BRANCH/SEMESTER:ECE(3rdSEM)

SUBJECT: Electronic Devices and Circuits
Lab. List of experiments

1. Study the following devices: (a) Analog & digital multimeters (b) Function/Signal generators (c) Regulated d. c. power supplies (constant voltage and constant current operations) (d) Study of analog CRO, measurement of time period, amplitude, frequency & phase angle using Lissajous figures.
2. Plot $V-I$ characteristic of P-N junction diode & calculate cut-in voltage, reverse saturation current and static & dynamic resistances.
3. Plot $V-I$ characteristic of Zener diode and study of Zener diode as voltage regulator. Observe the effect of load changes and determine load limits of the voltage regulator.
4. Plot frequency response curve for single stage amplifier and to determine gain bandwidth product
5. Plot drain current-drain voltage and drain current-gate bias characteristic of field effect transistor and measure of I_{DSS} & V_p
6. Application of Diode as clipper & clamper
7. Plot gain-frequency characteristic of two stage RC coupled amplifier & calculate its bandwidth and compare it with theoretical value.
8. Plot gain-frequency characteristic of emitter follower & find out its input and output resistances.
9. Plot input and output characteristics of BJT in CB, CC and CE configurations. Find their h -parameters
10. Study half wave rectifier and effect of filter on wave. Also calculate theoretical & practical ripple factor.
11. Study bridge rectifier and measure the effect of filter network on D.C. voltage output & ripple factor.
12. Oscillator circuits

BRANCH/SEMESTER:EEE(3rdSEM)

SUBJECT: Electronics Engineering Lab.

13. List of Practical's

14. 1. Forward & Reverse characteristics of diode
15. 2. Characteristics of Zener diode.
16. 3. Study of Rectifiers (Half wave & Full wave) & Filters (Capacitor & Inductor filter)
17. 4. Input & Output Characteristics of transistor in CE mode
18. 5. Characteristics of FET.
19. 6. Characteristics of UJT.
20. 7. Load & Live regulation Characteristics of Regulator
21. 8. Frequency response of single stage RC coupled amplifier.
22. 9. To study the V-I Characteristics of PN Junction diode.
23. 10. Determination of h

parameter. **BRANCH/SEMESTER: ECE**

(4th SEM) SUBJECT:

Communication System Lab.

LIST OF EXPERIMENTS:

1. Signal Sampling and reconstruction
2. Time Division Multiplexing
3. AM Modulator and Demodulator
4. FM Modulator and Demodulator
5. Pulse Code Modulation and Demodulation
6. Delta Modulation and Demodulation
7. Observation (simulation) of signal constellations of BPSK, QPSK and QAM
8. Line coding schemes
9. FSK, PSK and DPSK schemes (Simulation)
10. Error control coding schemes - Linear Block Codes (Simulation)
11. Communication link simulation
- Equalization - Zero Forcing & LMS Algorithms (simulation)

BRANCH/SEMESTER: EEE (4th SEM)

SUBJECT: Digital and Microprocessor Lab. List of Practical's:

1. To verify the truth table of logic gates realize AND, OR, NOT gates.
2. To realize AND, OR gates using diodes and resistors.
3. To verify the Boolean algebra function using digital IC gates (consensus theorem).
4. To realize the function $F(A, B, C, D) = (C + D)(A + B)(B + D)$ using NOR gates.
5. Design a half/full adder circuit using FF for 2 bits.
6. Design a half/full subtractor circuit using FF for 2 bits.
7. Design a binary to gray code converter.
8. Design a function using K-map and verify its performance using SOP & POS.
9. Design BCD to seven segment display using 7447 IC.
10. Implement $F(A, B, C) = \sum(1, 3, 4, 5, 6)$ with a multiplexer.
11. To study 8085 based microprocessor system
12. To load content in one register 8 shift to another.
13. To move the content of one memory location to another.

14. To develop and run a program for finding out the largest/smallest number from a given set of numbers.
15. To develop and run a program for arranging in ascending/descending order of a set of numbers.
16. To perform multiplication/division of given numbers.
17. To perform floating point mathematical operations (addition, subtraction, multiplication, and division).
18. To perform computation of square root of a given number.

BRANCH/SEMESTER: ECE(4thSEM)

SUBJECT: Digital Technology and Microprocessor

Lab. LIST OF EXPERIMENTS:

1. Verification of basic Logic gates
2. Verification of Universal logic gates and realization of basic gates
3. Design and implementation of code converters using logic gates
(i) Binary to Gray and vice-versa
4. Design and implementation of 4 bit binary Adder/ Subtractor and BCD adder using IC7483
5. Design and implementation of Multiplexer and De-multiplexer using logic gates
6. Design and implementation of encoder and decoder using logic gates
7. Construction and verification of 4 bit ripple counter and Mod-10/Mod-12 Ripple counters
8. Design and implementation of 3-bit synchronous up/down counter
9. Implementation of SISO, SIPO, PISO and PIPO shift registers using Flip-flops.

Microprocessor kit/assembler Programs using kits and assembler

1. Basic arithmetic and Logical operations
2. Move data block without overlap
3. Code conversion, decimal arithmetic and Matrix operations.
4. Floating point operations, string manipulations, sorting and searching
5. Password checking, Print RAM size and system date
6. Counters and Time Delay

Peripherals and Interfacing Experiments

7. Traffic light control
8. Stepper motor control
9. Digital clock
10. Keyboard and Display
11. Printer status
12. Serial interface and Parallel interface
13. A/D and D/A interface and Waveform Generation

BRANCH/SEMESTER: ECE(4thSEM)

SUBJECT: Electronic

Workshop. Electronic Worksho

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1. Identification, Study & Testing of various electronic components: (a) Resistances-
a. Various types, Color coding (b) Capacitors- Various types, Coding, (c) Inductors
b. (d) Diodes (e) Transistors (f) SCRs (g) ICs (h) Photo diode (i) Photo transistor
(j) LED
c. (k) LDR (l) Potentiometers.

2. Study of symbols for various Electrical & Electronic Components, Devices, Circuit Function etc.
3. To study and perform experiment on CRO demonstration kit.
4. Soldering & De-soldering practice.
5. To Design & fabricate a PCB for a Regulated power supply. Assemble the Regulated power supply using PCB and test it.
6. Study and plot the characteristic of following Opto-Electronic devices – (a) LED (b) LDR (c) Photovoltaic cell (d) Opto-coupler (e) Photodiode (f) Photo transistor (g) Solar cell.
7. Study the specifications and working of a Transistor radio (AM & FM) kit and
 - a. Perform measurements on it.
8. Study the specifications and working of a Public address System.
9. To prepare design layout of PCB using software tools.
10. To fabricate PCB and testing of electronics circuit on PCB.
11. To design and test Switch Mode Power Supply using ICs
12. To study the specifications and working of a DVD Player.
13. To study the specifications and working of LCD TV.
14. To study the specifications and working of LED TV.

BRANCH/SEMESTER: ECE (4th SEM)

SUBJECT: Computer Communication & Networking Lab

1. Study of Network Components.
- 2 Study of Analog and Digital Signals.
- 3 Study of Network Topologies.
- 4 To connect two pc's using peer to peer communication.
- 5 Implementation of small network using hub and switch.
- 6 To study Error Detection methods.
- 7 To study Error Correction methods.
- 8 To study the different line coding schemes.
- 9 Basic study of Network classes.
- 10 Study of DTE-DCE.
- 11 Study of Networks.
- 12 Overview of Boson Simulator.

BRANCH/SEMESTER: ECE (5th SEM)

SUBJECT: Digital Communication System Lab (Elective-II)

LIST OF EXPERIMENTS

1. Study of Time Division Multiplexing system.
2. Study of pulse code modulation and demodulation.
3. Study of delta modulation and demodulation and observe effect of slope overload.
4. Study of pulse data coding techniques for various formats.
5. Data decoding techniques for various formats.

6. Study of amplitude shift keying modulator and demodulator.
7. Study of frequency shift keying modulator and demodulator.
8. Study of phase shift keying modulator and demodulator.
9. Error Detection & Correction using Hamming Code
10. Digital link simulation; error introduction & error estimation in a digital link using MATLAB (SIMULINK)/communication simulation packages.

BRANCH/SEMESTER: ECE (5th SEM)

SUBJECT: Embedded Systems Lab (Elective-I)

List of Experiments

1. Study of ARM7 & ARM9 Bit Processor Architecture and Pin Diagram.
2. Study of Interrupt structure in ARM Processors
3. Write ARM Processor program to Flash LED
4. Interfacing of an LCD Display
5. Write a program to interface an ADC
6. Write a program to generate a Ramp waveform using DAC interface
7. Write a program to control a Stepper Motor
8. Write a program to control the speed of DC motor
9. Interface relays and write a program to control them
10. Interface ZIGBEE with ARM to control more external devices
11. Interfacing of Biometric information recorder
12. Interfacing RFID module with ARM Microcontroller

BRANCH/SEMESTER: ECE (5rd SEM)

SUBJECT: Instrumentation Lab List

of Experiments:-

1. To determine output characteristic of a LVDT and determine its sensitivity.
2. Study characteristics of temperature transducer like Thermocouple, Thermistor and RTD with implementation of small project using signal conditioning circuit.

3. Study characteristics of Light transducer like Photovoltaic cell, Phototransistor and Pin Photodiode with implementation of small project using signal conditioning circuit.
4. To study input-output characteristics of a potentiometer and to use two potentiometers as an error detector.
5. To study transmitter-receiver characteristics of a synchro to use it as a control component.
6. To study the operation of a d.c. positional servosystem and to investigate the effect of damping and supply voltage on its response.
7. To study the operation of an a.c. position servo-system and to obtain effects of supply voltage and system parameter on its transient response.
8. To study a stepper motor and control its direction, speed and number of steps with the help of a microprocessor.
9. ADC Converter
10. DAC converters
11. Study of Automation system
12. Intelligent controllers

BRANCH/SEMESTER: ECE (5th SEM)

SUBJECT: Linear Integrated Circuits (Elective-II) List

of Experiments:

1. To study differential amplifier configurations.
2. To measure the performance parameters of an Opamp.
3. Application of Opamp as Inverting and Non Inverting amplifier.
4. To study frequency response of an OpAmp
5. To use the Op-Amp as summing, scaling & averaging amplifier.
6. To use the Op-Amp as Instrumentation amplifier
7. Design differentiator and Integrator using Op-Amp.
8. Application of OpAmp as Log and Antilog amplifier. Design Lowpass, Highpass and Bandpass 1st order Butterworth active filters using OpAmp.
9. Design Phase shift oscillator using Op-Amp.
10. Design Wien Bridge oscillator using Op-Amp.
11. Application of OpAmp as Sawtooth wave generator.
12. Application of OpAmp as Zero Crossing detector and window detector.
13. Application of OpAmp as Schmitt Trigger.
14. Design series regulators with an error amplifier to provide an output voltage of 5V at a load current of 1.5 Amp. Use a 741 Op-Amp and specify the Zener voltage necessary transistor gain and the maximum power dissipation of the transistor.

15. Design a delay circuit using 555.
16. To examine the operation of a PLL and to determine the free running frequency, the capture range and the lock in range of PLL.
17. Verification of hardware results obtained using SPICE.

BRANCH/SEMESTER:ECE(5thSEM)

SUBJECT:Power Electronics

List of Experiment

1. Study of v-i characteristics of an SCR.
2. Study of v-i characteristics of a triac.
3. Study of different triggering circuits for thyristor.
4. Study of uni-junction transistor (UJT) triggering circuit.
5. Study of a firing circuit suitable for single phase half controlled converter.
6. Simulation on the single phase ac-dc uncontrolled converter with & without the source inductance.
7. Simulation of a single phase ac to controlled dc converter with & without the source inductance.
8. Single phase half controlled bridge converter with two thyristors & two diodes.
9. Single phase fully controlled bridge converter using four thyristors.
10. PSpice simulation of dc to dc step down chopper.
11. PSpice simulation of single phase controller with r-l load.
12. PSpice simulation of PWM bridge inverter of r-l load using MOSFET.

BRANCH/SEMESTER:ECE(5thSEM)S

UBJECT:VLSI LAB(Elective-I)

List of Experiments: Combinational Design Exercises

1. Design of basic Gates: AND, OR, NOT.
2. Design of universal gates
3. Design of 2:1 MUX using other basic gates
4. Design of 2 to 4 Decoder
5. Design of Half-Adder, Full Adder, Half Subtractor, Full Subtractor
6. Design of 3:8 Decoder
7. Design of 8:3 Priority Encoder
8. Design of 4 Bit Binary to Grey code Converter
9. Design of 4 Bit Binary to BCD Converter using sequential statement
10. Design an 8 Bit parity generator (with for loop and Generic statements) Sequential Design Exercises
11. Design of 2's Complementary for 8-bit Binary number using Generate statements

12. Design of all type of Flip-Flops using (if-then-else) Sequential Constructs
13. Design of 8-Bit Shift Register with shift Right, R-Shift Left, Load and Synchronous reset.
14. Design of Synchronous 8-bit Johnson Counter.
15. Design of Synchronous 8-Bit universal shift register (parallel-in, parallel-out) with 3-state output (IC74299)
16. Design of 4 Bit Binary to BCD Converter using sequential statement.
17. Design counters (MOD3, MOD5, MOD8, MOD16)
18. Design decimal up/down counter that counts up from 00 to 99 or down from 99 to 00.
19. Design 3-line to 8-line decoder with address latch

BRANCH/SEMESTER:EEE(5thSEM)

Subject: Microprocessor & Microcontroller Lab (Elective-I)

LIST OF EXPERIMENTS:

8086 Programs using kits and MASM

1. Basic arithmetic and Logical operations
 2. Move data block without overlap
 3. Code conversion, decimal arithmetic and Matrix operations.
 4. Floating point operations, string manipulations, sorting and searching
 5. Password checking, Print RAM size and system date
 6. Counters and Time Delay
 7. Traffic light control
 8. Stepper motor control
 9. Digital clock
- Keyboard and Display
11. Printer status
 12. Serial interface and Parallel interface
 13. A/D and D/A interface and Waveform Generation using 8051
 14. Basic arithmetic and Logical operations
 15. Square and Cube program, Find 2's complement of a number
 16. Unpacked BCD to ASCII

BRANCH/SEMESTER:ECE(6thSEM)

Subject: Internet of Things Lab

List of Experiments-

1. Physical and virtual Networking
2. Multimedia operation using wireless modes
3. Development of systems based on IOT technique
4. Operation of sensor through networking in wired and wireless modes
5. Operation of actuator through networking in wired and wireless modes
6. Smart board handling through wireless networks
7. GSM based evaluation of road traffic system
8. Smart town features demonstration
9. Cloud based operation
10. Case study of IOT based system.
- 11.

BRANCH/SEMESTER: ECE (6th SEM)

Subject : Microwave

Lab List of Experiments:

1. Study of microwave components and instruments.
2. Measurement of crystal characteristics and proof of the square law characteristic of the diode.
3. Measurement of klystron characteristics.
4. Measurement of VSWR and standing wave ratio.
5. Measurement of Dielectric constants.
6. Measurement of Directivity and coupling coefficient of a directional coupler.
7. Measurement of Q of a cavity.
8. Calibration of the attenuation constant of an attenuator.
9. Determination of the radiation characteristics and gain of an antenna.
10. Determination of the phase-shift of a phase shifter.
11. Determination of the standing wave pattern on a transmission line and finding the length and position of the short-circuited stub.

BRANCH/SEMESTER: ECE (6th SEM)

Subject: Satellite Communication

Lab List of Experiments:

1. Measure the baseband analog signal parameters in a wireless link.
2. Study the phenomenon of linear and circular polarization of antennas.

- 3 Measure the C/N ratio and propagation delay of signal in a sitcom link.
- 4 To estimate, calculate and design of satellite link budget.
- 5 To simulate satellite system using Qual net
- 6 To study and analyze Digital modulation techniques in time and frequency domain and their constellation view.
- 7 To measure numerical aperture and various types of losses in fiber.
- 8 Measurement of insertion loss, directivity, back reflection / return loss for a series of fiber optic components (i.e. coupler, WDM, isolator, circulator, DWDM MUX/De-MUX devices)
- 9 Designing of optical communication systems and photonic devices as per the given Specifications using simulation software's.
- 10 Do investigations in terms of BER, Eye diagram for systems and mode calculation for devices.

Subject: VLSI Lab (Elective-IV)

BRANCH/SEMESTER: EEE (5th SEM)

List of Experiments: Combinational Design Exercises

1. Design of basic Gates: AND, OR, NOT.
2. Design of universal gates
3. Design of 2:1 Mux using other basic gates
4. Design of 2 to 4 Decoder
5. Design of Half-Adder, Full Adder, Half Subtractor, Full Subtractor
6. Design of 3:8 Decoder
7. Design of 8:3 Priority Encoder
8. Design of 4 Bit Binary to Grey code Converter
9. Design of 4 Bit Binary to BCD Converter using sequential statement
10. Design an 8 Bit parity generator (with for loop and Generic statements)
11. Design of 2's Complementary for 8-bit Binary number using Generate statements
- Sequential Design Exercises
12. Design of all type of Flip-Flops using (if-then-else) Sequential Constructs
13. Design of 8-Bit Shift Register with shift Right, R-Shift Left, Load and Synchronous reset.

14. Design of Synchronous 8-bit Johnson Counter.

15. Design of Synchronous 8-Bit universal shift register (parallel-in, parallel-out) with 3- stateoutput(IC 74299)
16. Designof4BitBinarytoBCDConverterusingsequentialstatement.
17. Designcounters (MOD3,MOD5,MOD8,MOD16)
18. Designadecimalup/downcountersthatcountsupfrom 00to99ordownfrom99to 00.
19. Design3-lineto8-linedecoderwithaddresslatch

SUBJECT:CommunicationSystemLab.

BRANCH/SEMESTER: EEE (6th)

SEM)LIST OFEXPERIMENTS:

1. SignalSamplingandreconstruction
2. TimeDivisionMultiplexing
3. AMModulatorandDemodulator
4. FMModulatorandDemodulator
5. PulseCodeModulationandDemodulation
6. DeltaModulationandDemodulation
7. Observation(simulation)ofsignalconstellationsofBPSK,QPSKandQAM
8. Linecodingschemes
9. FSK,PSKandDPSKschemes(Simulation)
10. Communicationlinksimulation

PHYSICS

	ListofExperiments	1stSemester
1	ToKnowyourPhysicslaboratory.	
2	TouseVernierCalipersforthemeasurementofdimensionsofgivenobject.	
3	TouseMicrometerScrewGaugeforthemeasurementofdimensions(Length,Thickness, Diameter)ofgiven object.	
4	TouseSpherometerforthemeasurementofthicknessofagivenglass piece.	
5	TocalculateYoung’smodulusofelasticityofsteelwirebyVerniermethod.	
6	Tostudycapillaryphenomenonandtoverifythattheheightofliquidincapillaryisinversel yproportionaltotheradius ofcapillary.	
7	TodeterminecoefficientofviscosityofgivenliquidusingStokesMethod.	
8	To calculate the Linear Thermal coefficient of expansion for copper by usingplunger’sapparatus.	
9	To determine refer active index of a glass using glass slab by pin method.(sin i/sinr=u)	
10	Todeterminethevelocityofsoundby using resonancetube.	
11	Toverifyinversesquarelawbyusingphotoelectriccell.	

	List of Experiment 2nd Semester
1	To represent simple harmonic motion with the help of vertical oscillation of spring to determine spring constant (K) (Stiffness Constant).
2	To determine time period of oscillation of compound bar pendulum and calculate acceleration due to gravity (g).
3	To calculate refractive index of material of prism using spectrometer device.
4	To determine effective capacitance of series and parallel combination of capacitors by calculating its reactance.
5	Verification of Ohm's Law.
6	To convert galvanometer into ammeter of required range using appropriate value of shunt.
7	To verify Total Internal Reflection (TIR) phenomenon for given glass slab and to calculate critical angle of incidence.
8	Determination of Energy Gap (Forbidden Gap) of a semi-conductor.
9	To determine I-V characteristics of P-N junction Diode.
10	To verify inverse square law by using photoelectric cell.

CHEMISTRY

	List of Experiments 1st Semester
1	To determine neutralization point of Fatty Acid and ammonium hydroxide. Calculate normality and strength of Fatty Acids
2	To determine the equivalent conductivity of precipitation of BaCl ₂ with H ₂ SO ₄ by titrating method. Also find the normality and strength of BaCl ₂ .
3	To verify Faraday's second law of electrolysis..
4	To determine PH of given solution by universal indicator and PH meter.
5	To determine the strength of given hydrochloric acid solution by titrating it against sodium hydroxide solution by using PH meter.
6	To determine the thinner content in oil paint.
7	To determine the flash and fire point of given sample of lubricating oil.
8	To prepare phenol formaldehyde resin (Bakelite).
9	To determine viscosity of given lubricating oil.
10	To determine the alkalinity of given sample of water to decide the suitability of water for use in industry, Steam generation, etc..
11	To determine degree of hardness of water by EDTA method to find the suitability of water in industrial and domestic use.
12	Study of fire clay bricks and furnaces.

	List of Experiment 2nd Semester
1-4	To Qualitative Analysis of four salts, containing one Basic & one Acidic radical

	listed below. Basic Radicals: $Pb^{+2}, Cu^{+2}, Al^{+3}, Fe^{+3}, Cr^{+3}, Zn^{+2}, Ni^{+2}, Ca^{+2}, Ba^{+2}, Mg^{+2}, K^{+}, NH_4^{+}$ Acid Radicals: $Cl^{-}, Br^{-}, I^{-}, CO_3^{-2}, SO_4^{-2}, NO_3^{-}$
5	To determine E.C.E. of Cu by using $CuSO_4$ solution & Copper Electrode..
6	To standardize $KMnO_4$ using Sodium Oxalate.
7	To determine percentage of Fe in the given Mohr's salt.
8	To prepare each chart to show application of metals like Fe, Cu, Al, Cr, Ni, Sn, Pb, Co.
9	To determine Carbon Mono-oxide, CO_2 content emission from petrol vehicle.
10	To determine dissolved Oxygen in water sample.

- **Computing Facilities**

Internet Bandwidth	50Mbps
Number and configuration of system	170 Pcs (Dual-Core@2.80Ghz, 4GBRAM-60 pcs) (Intel-Pentium)@3.10Ghz, 4GBRAM-40 Pcs (Intel13@3.70Ghz, 4GBRAM-70 Pcs)
Total number of system connected by LAN	170 Pcs
Total number of system connected by WAN	170 Pcs (Public WAN)
Major software packages available	Window's 10 MS Office standard 2016 MS Server 2016 Lymsys (Library Software) Orell itel (language Software) Auto-CAD
Special purpose facilities available	Nil

- Innovation Cell - **Available**
- Social Media Cell - **Available**
- Compliance of the National Academic Depository (NAD), applicable to PGCM/PGDM Institutions and University Departments - **N.A.**
- **List of facilities available**
 - ☑ Games and Sports Facilities - **Available**
 - ☑ Extra-Curricular Activities - **Available**
 - ☑ Soft Skill Development Facilities - **Available**
- **Teaching Learning Process**
 - ☑ Curricula and syllabus for each of the programmes as approved by the University - sbtejharkhand.nic.in/syllabus.html
 - ☑ Academic Calendar of the University - **Available**

(44)

STATE BOARD OF TECHNICAL EDUCATION, JHARKHAND

ACADEMIC AND EXAMINATION SCHEDULE OF YEAR 2018

SESSION- 2015-18

Events	Semester	1st Sem	2nd Sem	3rd Sem	4th Sem	5th Sem	6th Sem
1 Date of Commencement of Classes		DONE					23-Apr-18
2 Date of 1st Class Exam.							22-26 May 18
3 Date of 2nd Class Exam.							18-23 June 18
4 Last working day of Semester							5-Jul-18
5 Date of Commencement of Exam.							16-Jul-18
6 Date of Publication of Result							31-Jul-18

SESSION- 2016-19

Events	Semester	1st Sem	2nd Sem	3rd Sem	4th Sem	5th Sem	6th Sem
11 Date of Commencement of Classes		DONE			27-Apr-18	31-Aug-18	28-Jan-19
12 Date of 1st Class Exam.					25-29 June 18	29 Oct to 03 Nov 18	18-23 Mar 19
13 Date of 2nd Class Exam.					24 to 28 July 18	17-22 Dec 18	13-18 May 19
14 Last working day of Semester					14-Aug-18	5-Jan-19	6-Jun-19
15 Date of Commencement of Exam.					18-Aug-18	15-Jan-19	17-Jun-19
16 Date of Publication of Result					29-Sep-18	second week of Feb 19	31-Jul-19

SESSION- 2017-20

Events	Semester	1st Sem	2nd Sem	3rd Sem	4th Sem	5th Sem	6th Sem
01 Date of Commencement of Classes		DONE		27-Apr-18	31-Aug-18	28-Jan-19	...
02 Date of 1st Class Exam.				25-29 June 18	29 Oct to 03 Nov 18	18-23 Mar 19	...
03 Date of 2nd Class Exam.				24 to 28 July 18	17- 22 Dec 18	13-18 May 19	...
04 Last working day of Semester				1-Aug-18	5-Jan-19	6-Jun-19	...
05 Date of Commencement of Exam.				18-Aug-18	16-Jan-19	18th June 19	...
06 Date of Publication of Result				29th Sep 18	second week of Feb 19	31st July 19	...

SESSION- 2018-21

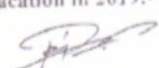
Events	Semester	1st Sem	2nd Sem	3rd Sem	4th Sem	5th Sem	6th Sem
01 Date of Commencement of Classes		15-Jul-18	2-Jan-19	...	...	...	...
02 Date of 1st Class Exam.		20- 25 Aug 18	18-23 Mar 19	...	...	...	...
03 Date of 2nd Class Exam.		19-24 Nov 18	13-18 May 19	...	...	...	...
04 Last working day of Semester		1-Dec-18	15-Jun-19	...	...	...	...
05 Date of Commencement of Exam.		10-Dec-18	27-Jun-19	...	...	...	...
06 Date of Publication of Result		1st week of Jan 19	31st July 19	...	...	...	...

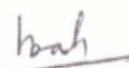
Durga Puja Vacation 10th to 20th Oct. 2018

X-mass Vacation 24th to 31st Dec. 2018

summer vacation in 2019:- 20th May to 08 June 2019 (for Session 2018-21)

summer vacation in 2019:- 20th May to 01st June 2019 (for Session 2017-20 & 2016-19)


Controller of Examination
State Board of Technical Education,
Jharkhand, Ranchi.


Secretary
State Board of Technical Education,
Jharkhand, Ranchi.

- Academic Time Table with name of the Faculty members handling the Course - Available
Time Table for EEE 4th Semester

XAVIER INSTITUTE OF POLYTECHNIC AND TECHNOLOGY

Namkum, Ranchi, 834010

Time Table Branch - EEE Semester - 4th

W e f 28-02-22

Day	9:00-10:00 (am)	10:00-11:00 (am)	11:00-12:00 (noon)	L	1:00-2:00 (pm)	2:00-3:00 (pm)	3:00-4:00 (pm)	4:00-5:00 (pm)
Mon.	PS-I	PPS	NT	U	MC-I Lab			SCA
Tue.	PS-I	PPS	NT					
Wed.	PS-I	PPS	NT	N	NT			SCA
Thu.	DC&M	PPS	EE&C	C	Workshop			
Fri.	DC&M	MC-I	EE&C					
Sat.	DC&M	MC-I	EE&C		MC-I			

SCA	Student Centered Activity	Mrs. Gulfshan
NT	NETWORK THEORY	Mr. Ratneshkumar
MC-I	ELECTRICAL MACHINE -I	Mrs. Gulfshan
DC&M	DIGITAL CIRCUIT & MICROPROCESSOR	Miss Neha NuppurMundu
EE&C	ELECTRICAL ESTIMATION & COSTING	Mr. Ratnesh Kumar
PS-I	POWER SYSTEM I	Mrs. Gulfshan
EW	ELECTRICAL WORKSHOP	Mr. Ratnesh Kumar
PPS	PROFESSIONAL PRACTICES	Mr. Salahuddin Ansari

Gulfshan
HOD P/C EEE

P.N. Khan
Principal

Time Table for EEE 6th Semester

XAVIER INSTITUTE OF POLYTECHNIC AND TECHNOLOGY

Namkum, Ranchi, 834010

Time Table Branch - EEE Semester - 6th

W e f 28-02-22

Day	9:00-10:00 (am)	10:00-11:00 (am)	11:00-12:00 (noon)	L	1:00-2:00 (pm)	2:00-3:00 (pm)	3:00-4:00 (pm)	4:00-5:00 (pm)
Mon.	PE	RES	PP		PE Lab			Project
Tue.	PE	RES	PP					
Wed.	PE	RES	PP					
Thu.	UEE	CS	IM. & Mgt		CS Lab	Project		SCA
Fri.	UEE	CS	IM. & Mgt					
Sat.	UEE	CS	IM. & Mgt	SCA	UEE Lab			

SCA	Student Centered Activity	Ratnesh kumar GULFSHAN
CS	Communication System	Ms. Anshumala Kispotta
UEE	Utilization of Electrical Energy	Mr. Ratnesh Kumar
RES	Renewable Sources of Energy	Ms. Gulfshan
IM. & Mgt	Industrial Engg. & Management	Mr. Salahuddin Ansari
PE	Power Electronics	Mr. Ratnesh kumar
Project	Final Year Project	VKT/RK/Gulfshan
PP	Professional Practice	Mr. Salahuddin Ansari

Gulfshan
HOD P/C EEE

P.N. Khan
Principal

TimeTableforME6th Semester

DEPARTMENT OF MECHANICAL ENGINEERING
XAVIER INSTITUTE OF POLYTECHNIC AND TECHNOLOGY, NAMKUM, RANCHI
CLASS ROUTINE OF 6th SEMESTER (w.e.f. 28-02-2022)

TIME DAY	9:00 -10:00	10:00 - 11:00	11:00 -12:00	12:00 - 1:00	1:00 -2:00	2:00 -3:00	3:00 -4:00	4:00 - 5:00
MON	Measurement & Automation	Industrial Fluid Power Lab		Lunch	Professional Practices	Design of Machine Element	Design of Machine Element	
TUE	Measurement & Automation	Design of Machine Element	Elective II		Professional Practices	Project Work		SCA
WED	Elective II	Elective II Lab			Industrial Engg. & Management	Project Work	SCA	
THU	Industrial Fluid Power	Elective II	Measurement & Automation		Professional Practices	Measurement & Automation Lab		SCA
FRI	Industrial Engg. & Management	Design of Machine Element Lab			Industrial Fluid Power	Professional Practices	SCA	
SAT	Industrial Engg. & Management	Industrial Fluid Power	Project Work	Library				

Name of the Subjects	Name of the Faculty
Industrial Engg & Management	Mr. Salahuddin Ansari
Industrial Fluid Power	Mr. Avtar Krishna
Design Of Machine Element	Mr. Raj Kumar
Measurement & Automation	Mr Alvin A Bage
Elec II - Alternate Source of Energy	Mr. Lochan S Khalkho
Professional Practices	Mr. Salahuddin Ansari
Student centered activity (SCA)	Mr Raj Kumar
Project Work	All Departmental Faculty

File
 (Raj Kumar)
 HOD I/C- ME

P.V. Venk
 Principal

TimeTableforME4th Semester Section A

DEPARTMENT OF MECHANICAL ENGINEERING
XAVIER INSTITUTE OF POLYTECHNIC AND TECHNOLOGY, NAMKUM, RANCHI
CLASS ROUTINE OF 4th SEMESTER (A) W e f. 28-02-2022

TIME DAY	9:00 -10:00	10:00 -11:00	11:00 -12:00	12:00 -1:00	1:00 -2:00	2:00 -3:00	3:00 -4:00	4:00 -5:00
MON	Thermal Engg	Thermal Engg Lab		Prof Prac	Fluid Mechanics	Fluid Mechanics Lab		
TUE	Manufacturing Technology	Theory Of Machine Lab			Thermal Engg	Theory Of Machine	SCA	
WED	Theory Of Machine	Manufacturing Technology Lab			Manufacturing Technology	SCA	Prof Practice	SCA
THU	Electrical Engg	Theory Of Machine	Library		Fluid Mechanics	SCA	SCA	
FRI	Electrical Engg	Manufacturing Technology	Prof Practice		Electrical Engg Lab		Prof Practice	SCA
SAT	Electrical Engg	Fluid Mechanics	Thermal Engg					

Name of the Subjects	Name of the Faculty
Thermal Engineering	Mr. Lochan S Khalkho
Theory of Machine	Mr. Avtar Krishna
Fluid Mechanics & Machine	Mr Alvin A Bage
Manufacturing Technology	Mr. Avtar Krishna
Electrical Engg	Mrs Gulshan
Professional Practices	Mr. Alvin A Bage
Student centered activity (SCA)	Mr Raj Kumar

File
 (Raj Kumar)
 HOD I/C- ME

P.V. Venk
 Principal

TimeTableforME4th Semester Section B

DEPARTMENT OF MECHANICAL ENGINEERING
XAVIER INSTITUTE OF POLYTECHNIC AND TECHNOLOGY, NAMKUM, RANCHI
CLASS ROUTINE OF 4th SEMESTER (B) W.e.f. 28-02-2022

TIME \ DAY	9:00 - 10:00	10:00 - 11:00	11:00 - 12:00	12:00 - 1:00	1:00 - 2:00	2:00 - 3:00	3:00 - 4:00	4:00 - 5:00
MON	Manufacturing Technology	Theory of Machine	Professional Practices	Lunch	Manufacturing Technology Lab		SCA	
TUE	Theory of Machine	Thermal Engg	Professional Practices		SCA	Thermal Engineering Lab		Library
WED	Fluid Mechanics & Machine	Manufacturing Technology	Professional Practices		Fluid Mechanics & Machine LAB		SCA	
THU	Fluid Mechanics & Machine	Theory of Machine	Electrical Engg		Electrical Engg Lab		SCA	
FRI	Fluid Mechanics & Machine	Thermal Engg	Electrical Engg		Professional Practices	Theory of Machine Lab		SCA
SAT	Manufacturing Technology	Thermal Engg	Electrical Engg		SCA			

Name of the Subjects	Name of the Faculty
Thermal Engineering	Mr. Lochan S Khalkho
Theory of Machine	Mr. Rajkumar
Fluid Mechanics & Machine	Mr. Alvin A Bage
Manufacturing Technology	Mr. Avtar Krishna
Electrical Engg	Mrs. Gulfshan
Professional Practices	Mr. Alvin A Bage
Student centered activity (SCA)	Mr. Raj Kumar

(Raj Kumar)
 HOD I/C- ME

Principal

TimeTableforECE 4th Semester

XAVIER INSTITUTE OF POLYTECHNIC AND TECHNOLOGY

W.e.f. 28/2/2022

Namkum, Ranchi, 834010

SEM- 4th

Day	9:00-10:00(am)	10:00-11:00(am)	11:00-12:00(pm)	12:00-1:00(pm)	1:00-2:00 (pm)	2:00-3:00(pm)	3:00-4:00(pm)	4:00-5:00(pm)
Mon.	Digital Technology & Microprocessor	Computer hardware & peripheral	Communication system	L U N C H	Data communication & computer networking	Communication system LAB Ms. Jemma Tigga		SCA Ms. Anshumala
Tue.	Communication system	Digital Technology & Microprocessor	Control system		Professional Practice-II	Control system LAB		
Wed.	Data communication & computer networking	Computer hardware & peripheral	Control system		Professional Practice-II	SCA Ms. Neha	LIBRARY	
Thu.	Communication system	Data communication & computer networking	Digital Technology & Microprocessor		Data communication & computer networking LAB Ms. Neha Nupoor Munda	LIBRARY		
Fri.	Control system	Computer hardware & peripheral	SCA Ms. Srity		Digital Technology & Microprocessor LAB Ms. Srity Kerketta	SCA Ms. Jemma		
Sat.	Electronics Workshop Ms. Anshumala /Ms. Jemma							

Subject Name	Subject Code	Subject Teacher
Digital Technology & Microprocessor	ECE402	Ms. Srity Kerketta
Computer hardware & peripheral	ECE403	Ms. Anshumala Kispotta
Communication system	ECE404	Ms. Jemma Tigga
Data communication & computer networking	ECE405	Ms. Neha Nupoor Munda
Control system	ECE406	Ms. Aditi Munda
Electronics Workshop	ECE411	Ms. Anshumala /Ms. Jemma
Professional Practice-II	401	Ms. Jemma Tigga
SCA		Ms. Anshumala/Ms. Jemma/Ms. Srity/Ms. Neha

Principal

Apr 27, 2022, 09:22

TimeTableforECE 6thSemester

XAVIER INSTITUTE OF POLYTECHNIC AND TECHNOLOGY
Namkum, Ranchi ,834010

SEM- 6th

W.e.f - 28/2/22

Day	9:00-10:00 (am)	10:00-11:00 (am)	11:00-12:00(noon)	12:00-1:00pm	1:00-2:00(pm)	2:00-3:00(pm)	3:00-4:00(pm)	4:00-5:00(pm)
Mon.	Microwave	IOT	Project Work Ms. Srity	L	Optical fiber communication LAB Ms. Anshumala Kispotta		Professional Practices	
Tue.	Industrial Engg. & Management	IOT	Project Work Ms. Anshumala	U	Optical fiber communication	Professional Practices		SCA Ms. Neha
Wed.	Microwave	IOT	LIBRARY	N	Mobile communication LAB Ms. Srity Kerketta		SCA Ms. Anshumala	LIBRARY
Thu.	Industrial Engg. & Management	Mobile communication	Project Work Ms. Jemma	C	Optical fiber communication	Microwave LAB Ms. Jemma Tigga		SCA Ms. Srity
Fri.	Microwave	Mobile communication	LIBRARY	H	Optical fiber communication	IOT LAB Ms. Neha Nupoor Mundu		SCA Ms. Jemma
Sat.	Mobile communication	Project Work Ms. Neha	LIBRARY	Industrial Engg. & Management				

Subject Name	Subject Code	Subject Teacher
Industrial Engg. & Management	601	Mr. Salahuddin Ansari
Optical fiber communication	ECE604	Ms. Anshumala Kispotta
Mobile communication	ECE605	Ms. Srity Kerketta
Microwave	ECE608	Ms. Jemma Tigga
Internet of Things (IOT)	CSE611	Ms. Neha Nupoor Mundu
Project Work	603	Ms. Anshumala/ Ms. Jemma/Ms. Srity /Ms. Neha
Professional Practice	602	Ms. Srity Kerketta
SCA		Ms. Anshumala/Ms. Jemma/Ms. Srity/Ms. Neha


100 In Charge ECE
Apr 27, 2022, 09:22
P.N.V. Principal

TimeTableforME 1st Year

XAVIER INSTITUTE OF POLYTECHNIC AND TECHNOLOGY, BARGAWA RANCHI
ROUTINE OF 1st SEMESTER (2021-22), ME Section A, Room No: 502, W.E.F.

Day	09:00 - 10:00 AM	10:00 - 11:00 AM	11:00 - 12:00 AM	12:00 - 01:00 PM	01:00 - 02:00 PM	02:00 - 03:00 PM	03:00 - 04:00 PM	04:00 - 05:00 PM
Monday	Fundamental Of Computer	Engineering Math	Communication Skill	Engineering Physics	L	Engineering Physics Lab		LIB/SCA
Tuesday	Engineering Math	Communication Skill	Engineering Physics	Engineering Math	U	Fundamental Of Computer Lab		LIB/SCA
Wednesday	Engineering Math	Engineering Chemistry	Fundamental Of Computer	Engineering Physics	N	Engineering Chemistry Lab	Engineering Chemistry	
Thursday	Engineering Graphics Lab				C	Communication Skill Lab		LIB/SCA
Friday	Workshop Practices				H	Communication Skill	Engineering Chemistry	LIB/SCA
Saturday	Engineering Graphics	Engineering Graphics	LIB/SCA	LIB/SCA	-			

Engineering Chemistry – Dr. Manas Rajhans Choubey
 Communication Skill - Ms. Dipti Ekka
 Engineering Physics – Mrs. Rashmi Kiran Kujur
 Engineering Mathematics – Ms. Anjana Bara
 Fundamental of computer – Mrs. Anshumala Kispotta
 Workshop (ME) – Mr. Lochan S Khalkho
 Engineering Graphics – Mr. Rajkumar


Seen P.N.V. 25/02/2022

P.N.V. Principal XIPT

TimeTableforECE 1st Year

XAVIER INSTITUTE OF POLYTECHNIC AND TECHNOLOGY, BARGAWA RANCHI
ROUTINE OF 1st SEMESTER (2021-24) ECE, Section C, Room No :- 504 W.E.F.-

Day	09:00 -10:00 AM	10:00 - 11:00 AM	11:00 - 12:00 AM	12:00 - 01:00 PM	01:00 - 02:00 PM	02:00 - 03:00 PM	03:00 - 04:00 PM	04:00 - 05:00 PM
Monday	Workshop Practices					L	Communication Skill Lab	LIB/SCA
Tuesday	Engineering Graphics Lab					U	Engineering Chemistry Lab	LIB/SCA
Wednesday	Engineering Chemistry	Engineering Math	Engineering Physics	Engineering Graphics	N	Engineering Math	Communication Skill	LIB/SCA
Thursday	Fundamental Of Computer	Engineering Physics Lab		Engineering Chemistry	C	Engineering Graphics	Engineering Chemistry	LIB/SCA
Friday	Communication Skill	Fundamental Of Computer	Engineering Physics	Engineering Math	H	Fundamental Of Computer Lab		LIB/SCA
Saturday	Engineering Physics	Engineering Math	Communication Skill	LIB/SCA	-			

Engineering Chemistry – Dr. Manas Rajhans Chouhey
 Communication Skill - Ms. Dipti Ekka
 Engineering Physics – Mrs. Rashmi Kiran Kujur
 Engineering Mathematics –Ms. Anjana Bara
 Fundamental of computer – Mrs. Anshumala Kispotta
 Workshop (ME) – Mr. Lochan S Khalkho
 Engineering Graphics – Mr. P.N. Verma


 P.N.V. Principal
 XIPT


Seen rrm 25/02/2022

TimeTableforEEE 1st Year

XAVIER INSTITUTE OF POLYTECHNIC AND TECHNOLOGY, BARGAWA RANCHI
ROUTINE OF 1st SEMESTER (2021-22), EEE Section B, Room No :- 503 W.E.F.-

Day	09:00 -10:00 AM	10:00 - 11:00 AM	11:00 - 12:00 AM	12:00 - 01:00 PM	01:00 - 02:00 PM	02:00 - 03:00 PM	03:00 - 04:00 PM	04:00 - 05:00 PM
Monday	Engineering Graphics Lab					L	Engineering Chemistry Lab	LIB/SCA
Tuesday	Workshop Practices					U	Engineering Physics Lab	LIB/SCA
Wednesday	Communication Skill	Engineering Physics	Engineering Math	Engineering Chemistry	N	Fundamental Of Computer Lab		LIB/SCA
Thursday	Engineering Math	Engineering Chemistry	Communication Skill	Engineering Physics	C	Engineering Math	Fundamental Of Computer	LIB/SCA
Friday	Engineering Math	Engineering Physics	Communication Skill	Engineering Chemistry	H	Engineering Graphics	Engineering Graphics	LIB/SCA
Saturday	Communication Skill Lab		Fundamental Of Computer	LIB/SCA	-			

Engineering Chemistry – Dr. Manas Rajhans Chouhey
 Communication Skill - Ms. Dipti Ekka
 Engineering Physics – Mrs. Rashmi Kiran Kujur
 Engineering Mathematics –Ms. Anjana Bara
 Fundamental of compute- Mrs. Anshumala Kispotta
 Workshop (ME) – Mr. Lochan S Khalkho
 Engineering Graphics – Mr. P. N. Verma


 P.N.V. Principal
 XIPT

Seen rrm 25/02/2022

- TeachingLoadofeachFaculty-**Available**

TeachingLoadofFaculties

Sl. No.	Name	Branch	Theory	Lab	SCA	Total Load
1	P.N. Verma	ME	4	8	0	12
2	Jaitun Kumar	EEE	3	0	32	35
3	RajKumar	ME	6	4	32	42
4	AlvinA.Bage	ME	9	14	0	23
5	LochanS.Khalkho	ME	9	18	0	27
6	AvtarKrishna	ME	11	8	0	19
7	SalahuddinAnsari	ME	9	4	0	13
8	Alok Niranjan Kumar	ME	6	4	0	10
9	Gulfshan	EEE	12	7	32	51
10	Ratnesh Kumar	EEE	9	9	0	18
11	Aditi Munda	EEE	6	5	0	11
12	Lily Lakra	EEE	5	3	0	8
13	Ruchi Kujur	EEE	5	3	0	8
14	AnshumalaKispotta	ECE	9	7	2	18
15	Jemma Tigga	ECE	10	7	2	19
16	Neha Noopur Mundu	ECE	9	7	2	18
17	Srity Kerketta	ECE	10	5	2	17
18	Basudeo Mahato	ECE	6	4	4	14
19	Dr.ManasRajhansChoubey	1 st Year	9	6	0	15
20	RashmiKiranKujur	1 st Year	9	6	2	17
21	AnjanaBara	1 st Year	12	0	1	13
22	DiptiAnilisaEkka	1 st Year	9	6	1	16
23	LochanS.Khalkho	1 st Year	0	12	0	12
24	RajKumar	1 st Year	2	4	0	6
25	Basudev Mahto	1 st Year	6	6	2	14

- InternalContinuousEvaluationSystemandplace-**Available**
- Student'sassessmentofFaculty,Systeminplace-**Available**
- **ForeachPostGraduateCoursesgivethefollowing-N. A.**
- **SpecialPurpose**
 - Software,alldesigntoolsincase
 - AcademicCalendarandFramework

16. EnrollmentofStudentsinthelast3years

Batch2019-22	Batch2020-23	Batch 2021-24
135	139	80

17. List of Research Projects/Consultancy Works

- Number of Projects carried out, funding agency, Grant received
- Publications (if any) out of research in last three years out of masters projects – *N.A*
- Industry Linkage – *Available*
- MoU's with Industries (minimum 3) – *Available*

18. LoA and Subsequent EoA till the current Academic Year – *Link available in the Institute Website*

19. Accounted audited statement for the last three years Attached Auditor's Report for the Financial Year 2020-21

B. K. BANKA & ASSOCIATES
CHARTERED ACCOUNTANTS

Head Office :
1st Floor, Room No. 2
Heritage Parmeshwar
52, Circular Road, Opp. B.I.T. Extension
Lalpur, Ranchi - 834 001
Tele. : 0651-2970197, 09931382126 (Office)
Mob. : 94311-05822
E-mail : bkbankaassociates1991@gmail.com
cabnodbanka83@gmail.com
binod_banka@yahoo.in

Ref.

Date :

FORM NO. 10B

[See Rule 17B]

AUDIT REPORT

under section 12A(1)(b) of the Income-tax Act, 1961, in the case of charitable or religious trusts or institutions

We have examined the Balance Sheet of "Xavier Institute of Social Service, PAN - AAATX0040P, [Unit : Xavier Institute of Polytechnic & Technology]" as at 31st March, 2021 and the Income and Expenditure Account for the year ended on that date which are in agreement with the books of accounts maintained by the said trust or institution.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance of the Society in accordance with the Generally Accepted Accounting Practices in India. This responsibility also includes maintenance of adequate accounting records in accordance with the provisions of the Act for safeguarding of the assets of the organization and for preventing and detecting frauds and other irregularities; selection and application of appropriate accounting policies; making judgments and estimates that are reasonable and prudent; and design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal financial control relevant to the Society's preparation of the financial

Branch : DHANBAD

B. K. BANKA & ASSOCIATES

CHARTERED ACCOUNTANTS

Head Office :

1st Floor, Room No. 2
Heritage Parmeshwar
52, Circular Road, Opp. B.I.T. Extension
Lalpur, Ranchi - 834 001
Tele. : 0651-2970197, 09931382126 (Office)
Mob. : 94311-05822
E-mail : bkbankaassociates1991@gmail.com
cabinodbanka83@gmail.com
binod_bank@yahoo.in

Ref.

Date :

statements that give a true and fair view in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on whether the institute has in place an adequate internal financial controls system over financial reporting and the operating effectiveness of such controls. An audit also includes evaluating the appropriateness of the accounting principles used and the reasonableness of the accounting estimates made by the Society's Governing Board, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of the audit. In our opinion proper books of accounts have been kept by the above named trust/ institutions visited by us so far as appear from our examination of the books.

In our opinion and to the best of our information, and according to information given to us, the said accounts give, read with notes on account annexed, a true and fair view:

- (i) In the case of the Balance Sheet, of the state of affairs of the above named trust/institution as at 31st March, 2021, and
- (ii) In the case of the Income & Expenditure Account, of the Surplus/Deficit of its accounting year ending on 31st March, 2021.

The Prescribed particulars are annexed hereto.

For B.K. Banka & Associates
Chartered Accountants
(ICAI Firm Reg. No. 005814C)



B.K. Banka
M. No. 071187
Partner
UDIN- 21071187AAAAIP9765

Place : Ranchi
Date : 3rd Sep, 2021

Branch : DHANBAD

Xavier Institute of Social Service

Unit: Xavier Institute of Polytechnic & Technology

Balance sheet As At 31st March, 2021

Particulars	Current year Amount(Rs)	Previous year Amount(Rs)
Funds & Liabilities:		
Capital Fund		
As Per Last Balance Sheet	1,13,73,611.95	1,13,73,611.95
	1,13,73,611.95	1,13,73,611.95
Other Fund		
Gratuity FundB/f	47,26,533.00	35,63,030.00
Add:- Provision made during the year	5,06,381.00	16,46,618.00
Less:- Utilised during the year	0.00	4,83,115.00
	52,32,914.00	47,26,533.00
Leave Encashment FundB/f	0.00	0.00
Add:- Provision made during the year	1,48,749.00	0.00
Less:- Utilised during the year	49,078.00	0.00
	99,671.00	0.00
Development FundB/f	19,05,245.00	11,36,585.00
Add:- Received during the year	6,44,000.00	7,88,900.00
Less:- Utilised during the year	35,400.00	20,240.00
	25,13,845.00	19,05,245.00
Caution Deposit B/f	32,66,653.00	32,66,653.00
Add:- Received during the year	9,50,000.00	0.00
Less:- Refunded during the year	10,90,000.00	0.00
	31,26,653.00	32,66,653.00
Advances & Deposits (Refer Schedule-C (C-1))	32,125.00	4,35,093.00
Statutory liabilities		
TDS	4,502.00	1,45,239.00
Other Liabilities		
Provision for Audit fee	75,000.00	75,000.00
Other Liabilities	6,95,186.00	7,86,650.00
(Refer Schedule-C (C-2))	7,70,186.00	8,61,650.00
Inter Unit Advance (Refer Schedule-C (C-3))		
	20,23,91,981.07	19,16,75,719.67
	22,55,45,489.02	21,43,89,744.62



Director
[Signature]



Particulars	Current year Amount(Rs)	Previous year Amount(Rs)
Properties & Assets:-		
Fixed Assets at WDV		
(As Per Sch."A")		
Balance: B/F	14,84,87,144.94	15,62,13,073.93
Since Added	5,72,668.00	1,05,54,617.00
Less:-Depreciation	1,61,98,112.00	1,82,80,546.00
	13,28,61,700.94	14,84,87,144.93
Current Assets		
Cash In Hand	3,228.29	1,540.29
IDBI A/C No.1780104000044420	1,33,249.74	2,98,867.74
BOI A/C No.490010110004079	3,47,048.60	64,824.32
	4,83,526.63	3,65,232.35
Other Receivables		
Academic Fee receivable	1,50,808.00	1,73,038.00
Namhay Tent & Caterers	52,650.00	52,650.00
	2,03,458.00	2,25,688.00
Advances & Deposit		
(As Per Schedule "D")	6,93,240.00	11,66,212.00
Deficit A/c		
Balance B/f	6,41,45,467.33	3,22,95,308.83
Add:- Excess of Expenditure over Income	2,71,58,096.12	3,18,50,158.51
	9,13,03,563.45	6,41,45,467.34
Total Rs.	22,55,45,489.02	21,43,89,744.62

AS PER OUR REPORT AND NOTES ON ACCOUNTS OF EVEN DATE ANNEXED HERewith.

For Xavier Institute of Social Service(Unit-XIPT)

For B.K. Banka & associates
Chartered Accountants
ICAI Firm Reg.No.005814C)



Place: Ranchi
Date : 3rd Sep, 2021

M.No. 071187
Partner



Authorized Signatory



Xavier Institute of Social Service

Unit: Xavier Institute of Polytechnic & Technology

Income & Expenditure Account For The Year Ended 31st March, 2021

Particulars	Current year Amount(Rs)	Previous year Amount(Rs)
Income:		
By Interest & Dividend (Refer Schedule-B (A-5))	30,511.00	1,16,568.00
By College Fees		
Tuition Fee (Refer Schedule-B (A-1))	75,81,599.00	1,45,78,075.00
Admission/Exam Fee (Refer Schedule-B (A-2))	8,97,390.00	9,53,085.00
Library Fee (Refer Schedule-B (A-3))	440.00	10,308.00
	84,79,429.00	1,55,41,468.00
By Other Income		
SBTE (JH) Exam Conducting Fee	4,16,708.00	
Varia Income (Refer Schedule-B (A-4))	23,573.00	2,014.03
	4,40,281.00	2,014.03
By Balance being Excess of Expenditure Over Income transferred to Capital Fund	2,71,58,096.12	3,18,50,158.51
Total (Rs.)	3,61,08,317.12	4,75,10,208.54
Expenditure:		
To Income Applied for Educational & Charitable Purposes:		
Administrative Expenses (Refer Schedule-B (B-1))	12,67,982.12	21,57,254.94
Audit\Legal Expenses\ Taxes\ Document charges (Refer Schedule-B (B-2))	1,54,198.00	95,865.00
Books Journal & Lab Materials Etc. (Refer Schedule-B (B-3))	92,283.00	3,05,290.00
General Maint. Including Build and Other Assets (Refer Schedule-B (B-4))	4,02,930.00	11,91,900.00
Placement Cell (Refer Schedule-B (B-5))	-	2,155.00
Program/Function (Refer Schedule-B (B-5))	10,078.00	41,159.00
Registration & Affiliation Expenses (Refer Schedule-B (B-6))	1,50,000.00	2,00,023.60



(Signature)
Director



Particulars	Current year Amount(Rs)	Previous year Amount(Rs)
Salary & Allowance (Refer Schedule-B (B-7))	1,71,77,604.00	2,35,80,993.00
Leave Encashment (Refer Schedule-B (B-7))	1,48,749.00	
Gratuity (Refer Schedule-B (B-8))	5,06,381.00	16,46,618.00
Staff Development Exp	-	8,404.00
	1,99,10,205.12	2,92,29,662.54
<u>To Depreciation</u> (As Per Schedule' A')	1,61,98,112.00	1,82,80,546.00
Total (Rs.)	3,61,08,317.12	4,75,10,208.54

AS PER OUR REPORT AND NOTES ON ACCOUNTS OF EVEN DATE ANNEXED HEREWITH.

For B.K. Banka & associates
Chartered Accountants
(ICAI Firm Reg.No.005814C)



Place: Ranchi
Date : 3rd Sep, 2021

M.No. 071187
Partner

For Xavier Institute of Social
Service(Unit-XIPT)



Authorized Signatory



Xavier Institute of Social Service

Unit: Xavier Institute of Polytechnic & Technology

Schedule 'A' of Fixed Assets Forming Part Of Balance Sheet As At 31st March, 2021

Particulars	Rate of Dep.	Gross value as on 01.04.2020	Addition before 30th Sep 2020	Addition after 30th Sep 2020	Deduction During the year	Gross value as on 31.03.2021	Depreciation Charged till 31.03.2020	Depreciation during the year	Depreciation Charged till 31.03.2021	WDV as on 31.03.2021	WDV as on 31.03.2020
Building	10%	19,24,17,563.09	5,57,328.00	-	-	19,29,74,891.09	7,68,67,505.39	1,16,10,739.00	8,84,78,244.39	10,44,96,646.70	11,55,50,057.70
Computer & Software	40%	1,04,48,206.00	-	-	-	1,04,48,206.00	89,20,418.80	6,11,115.00	95,31,533.80	9,16,672.20	15,27,787.20
Equipments (Office)	15%	1,04,58,266.25	-	-	-	1,04,58,266.25	34,17,087.89	10,56,177.00	44,73,264.89	59,85,001.36	70,41,178.36
Equipments (Workshop)	15%	2,64,74,624.72	-	-	-	2,64,74,624.72	1,78,14,033.04	12,99,089.00	1,91,13,122.04	73,61,502.69	86,60,591.69
Furniture & Fixture	10%	2,85,47,531.23	-	15,340.00	-	2,85,62,871.23	1,30,04,909.19	15,55,029.00	1,45,59,938.19	1,40,02,933.04	1,55,42,622.04
Library	40%	24,38,834.50	-	-	-	24,38,834.50	22,73,926.55	65,963.00	23,39,889.55	98,944.95	1,64,907.95
Total		27,07,85,025.79	5,57,328.00	15,340.00	-	27,13,57,693.79	12,22,97,880.86	1,61,98,112.00	13,84,95,992.86	13,28,61,700.94	14,84,87,144.94



Xavier Institute of Social Service

Unit: Xavier Institute of Polytechnic & Technology

Schedule-B (Income & Expenditure list)

S.no	Particulars	Current year Amount(Rs)
A Income:-		
1	Tution Fee	
	Electronic & Comunnication Eng. Fee	9,07,299.00
	Electronics & Electrical Eng. Fee	26,31,400.00
	Mechanical Eng. Fee	40,42,900.00
		75,81,599.00
2	Admission Exam Fee Etc.	
	Admission Fee	3,38,000.00
	Administrative Charges	2,000.00
	ID Card	16,900.00
	Internal Examination Fee	5,34,000.00
	TC Certificate	6,490.00
		8,97,390.00
3	Library & Fine	
	Library & Late Fine	440.00
4	Varia Income	23,573.00
5	SBTE (JH) Exam Conducting Fee	4,16,708.00
6	Interest/Dividend	
	Interest on savings	30,511.00
Gross Total		89,50,221.00
B Expenditure		
1	Administrative Expenses	
	Bank Charges	4,920.72
	Postage Telephone & Internet	4,52,704.00
	Printing & Stationery	48,119.00
	Taxes, Insurance Etc.	22,833.40
	Interest on TDS	4,887.00
	Medical Reimbursement/ Health and Hygiene	18,253.00
	Advertisement Expenses(Admission Process)	7,08,750.00
	Varia Expenses	470.00
	Travel & Conveyance	7,045.00
		12,67,982.12
2	Audit\Legal Expenses\Taxes\	
	Document charges	
	Legal Expenses	65,698.00
	Professional	13,500.00
	Audit Fee	75,000.00
		1,54,198.00



S.no	Particulars	Current year Amount(Rs)
3	Books Journal & Lab Materials Etc. News Paper, Magainzine, Journal Etc.	92,283.00
4	General Maint. Including Build and Other Assets	
	General Upkeep & Maintenance	25,387.00
	Power & Electricity	2,05,753.00
	Repairs & Maintenance Vehicles	59,950.00
	Repairs & Maint of Building	4,500.00
	Repairs & Maint (Office)	1,07,340.00
5	Program/Function	
	Other Program & Function	10,078.00
6	Registration & Affiliation Expenses	
	Registration/ Approval Fee Others	1,50,000.00
7	Salary & Allowance	
	ESIC Contribution	1,39,420.00
	Honorarium (PT) Faculty	3,89,500.00
	PF on EDLI Admin Expn.	71,580.00
	Earned Leave Encashment	1,48,749.00
	Honorarium (Others Staff)	4,08,250.00
	Salary to Faculty	94,31,603.00
	Salary to Ministerial Staff	40,65,818.00
	Salary to Technical Staff	26,71,433.00
8	Gratuity	
	Gratuity to Faculty	3,15,685.00
	Gratuity to Ministerial Staff	1,69,810.00
	Gratuity to Technical Staff	20,886.00
	Gross Total	1,99,10,205.12



Xavier Institute of Social Service

Unit: Xavier Institute of Polytechnic & Technology

Schedule: C List of Liabilities

S.no	Particulars	Current year Amount(Rs)
1	<u>Advance & Deposits</u> Advance from Students	32,125.00
2	<u>Other Liabilities</u> Neeraj Kachap (Staff) 22,105.00 Kanak lata Khalkho 5,000.00 K.T Lucas (Staff) 1,80,083.00 Liability For Expenses 2,400.00 Professional Tax 7,198.00 Salary Payable 18,200.00 Unidentified Receipt 2,92,200.00 Refundable Application Fee 1,68,000.00	6,95,186.00
3	<u>Inter Unit Advance</u> XISS (H.O)	20,23,91,981.07
Grand Total		20,31,19,292.07



Xavier Institute of Social Service

Unit: Xavier Institute of Polytechnic & Technology

Schedule: C List of Liabilities

S.no	Particulars	Current year Amount(Rs)
1	<u>Advance & Deposits</u> Advance from Students	32,125.00
2	<u>Other Liabilities</u> Neeraj Kachap (Staff) 22,105.00 Kanak lata Khalkho 5,000.00 K.T Lucas (Staff) 1,80,083.00 Liability For Expenses 2,400.00 Professional Tax 7,198.00 Salary Payable 18,200.00 Unidentified Receipt 2,92,200.00 Refundable Application Fee 1,68,000.00	6,95,186.00
3	<u>Inter Unit Advance</u> XISS (H.O)	20,23,91,981.07
Grand Total		20,31,19,292.07



Xavier Institute of Social Service

Unit: Xavier Institute of Polytechnic & Technology

Schedule: D Advances & Deposits List

S.no	Particulars	Current year Amount(Rs)
1	<u>Advances to Others</u>	
	B.R Marketing	4,083.00
	BCPL	76.00
	Juli Tirkey	3,62,700.00
		<hr/>
		3,66,859.00
2	Prepaid expenses	3,09,381.00
3	Security Deposit (Gas Cyclinder)	17,000.00
	Total (Rs.)	6,93,240.00



XAVIER INSTITUTE OF SOCIAL SERVICE

(Unit: Xavier Institute of Polytechnic and Technology)

Significant Accounting Policies & Notes on Accounts To Consolidated Financial Statements

1. Basis of Preparation Of Financial Statements:

The XAVIER INSTITUTE OF SOCIAL SERVICE: **XAVIER INSTITUTE OF POLYTECHNIC AND TECHNOLOGY** follow mercantile system of accounting and entries are recorded in line with the same system for income as well as expenditures...

2. Fixed Assets & Depreciation:

- (a) Fixed assets are stated at written down value.
- (b) Depreciation on fixed assets has been provided under W.D.V. method at the rates prescribed by the Income Tax Rules.

3. Income and expenses Recognition:

Income and expenses are recognized on Accrual basis.

4. Investments: nil

5. Employee benefit

Provision has been made for gratuity Calculation is based on present rule prevailing in the society.

6. Previous Year figures have been regrouped & re-classified, so as to confirm to current years classification.

7. Internal vouchers have been relied upon wherever external vouchers have not been found.

8. Notes on account forming integral part of the financial statements.



**20. Accounted audited statement for the last three years Attached Auditor's Report
for the Financial Year 2020-21**

XAVIER INSTITUTE OF SOCIAL SERVICE

(Unit : Xavier Institute of Polytechnic & Technology)

Namkum, Ranchi-834001, Jharkhand (INDIA)

Ph.:+91-651-2200873 (O), Fax: +91-651-2213381

Email: xiss@xiss.ac.in



FINANCIAL STATEMENTS FOR THE YEAR ENDED MARCH 31, 2020

AUDITOR:

B. K. Banka & Associates

Chartered Accountants

Room No.2, 1st Floor,
Heritage Parmeshwar
52, Circular Road,
Ranchi- 834001 Jharkhand
Phone: 9931382126, 9431105822
Email: bkbankaassociates1991@gmail.com

B. K. BANKA & ASSOCIATES

CHARTERED ACCOUNTANTS

Head Office :

1st Floor, Room No. 2
Heritage Parmeshwar
52, Circular Road, Opp. B.I.T. Extension
Lalpur, Ranchi - 834 001
Tele/Fax. : 0651-2212412, 09931382126 (Office)
Resi. : 0651-2216787
Mob. : 94311-05822
E-mail : bkbankaassociates1991@gmail.com
cabinodbanka83@gmail.com
binod_banka@yahoo.in

Ref. _____

Date : _____

FORM NO. 10B

[See Rule 17B]

AUDIT REPORT

under section 12A(b) of the Income-tax Act, 1961, in the case of charitable or religious trusts or institutions

We have examined the Balance Sheet of "Xavier Institute of Social Service [Unit : Xavier Institute of Polytechnic & Technology]" as at 31st March, 2020 and the Income and Expenditure Account for the year ended on that date which are in agreement with the books of accounts maintained by the said trust or institution.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance of the Society in accordance with the Generally Accepted Accounting Practices in India. This responsibility also includes maintenance of adequate accounting records in accordance with the provisions of the Act for safeguarding of the assets of the organization and for preventing and detecting frauds and other irregularities; selection and application of appropriate accounting policies; making judgments and estimates that are reasonable and prudent; and design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal financial control relevant to the Society's preparation of the financial statements that give a true and fair view in order to design audit procedures that are

Branch : DHANBAD

B. K. BANKA & ASSOCIATES
CHARTERED ACCOUNTANTS

Head Office :
1st Floor, Room No. 2
Heritage Parmeshwar
52, Circular Road, Opp. B.I.T. Extension
Lalpur, Ranchi - 834 001
Tele/Fax. : 0651-2212412, 09931382126 (Office)
Resi. : 0651-2216787
Mob. : 94311-05822
E-mail : bkbankaassociates1991@gmail.com
cabinodbanka83@gmail.com
binod_banka@yahoo.in

Ref.

Date :

appropriate in the circumstances, but not for the purpose of expressing an opinion on whether the institute has in place an adequate internal financial controls system over financial reporting and the operating effectiveness of such controls. An audit also includes evaluating the appropriateness of the accounting principles used and the reasonableness of the accounting estimates made by the Society's Governing Board, as well as evaluating the overall presentation of the financial statements.
We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

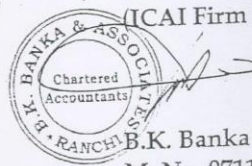
We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of the audit. In our opinion proper books of accounts have been kept by the above named trust/ institutions visited by us so far as appear from our examination of the books.

In our opinion and to the best of our information, and according to information given to us, the said accounts give a true and fair view:

- (i) In the case of the Balance Sheet, of the state of affairs of the above named trust/institution as at 31st March, 2020, and
- (ii) In the case of the Income & Expenditure Account, of the Surplus/Deficit of its accounting year ending on 31st March, 2020.

The Prescribed particulars are annexed hereto.

For B.K. Banka & Associates
Chartered Accountants
(ICAI Firm Reg. No. 005814C)



B.K. Banka
M. No. 071187
Partner
UDIN- 20071187AAAAFC3570

Place : Ranchi
Date : 19th Oct, 2020

Branch : DHANBAD

Xavier Institute of Social Service

Unit: Xavier Institute of Polytechnic & Technology

Balance sheet As At 31st March, 2020

Particulars	Current year Amount(Rs)	Previous year Amount(Rs)
Funds & Liabilities:		
Capital Fund		
As Per Last Balance Sheet	1,13,73,611.95	1,13,73,611.95
	1,13,73,611.95	1,13,73,611.95
Other Fund		
Gratuity FundB/f	35,63,030.00	29,38,076.00
Add:- Provision made during the year	16,46,618.00	8,56,942.00
Less:- Utilised during the year	4,83,115.00	2,31,988.00
	47,26,533.00	35,63,030.00
Development FundB/f	11,36,585.00	0.00
Add:- Received during the year	7,88,900.00	11,55,040.00
Less:- Utilised during the year	20,240.00	18,455.00
	19,05,245.00	11,36,585.00
Caution Deposit B/f	32,66,653.00	48,02,653.00
Advances & Deposits (Refer Schedule-C (C-1))	4,35,093.00	3,34,313.00
Statutory liabilities		
TDS	1,45,239.00	1,70,491.00
Other Liabilities		
Provision for Audit fee	75,000.00	75,000.00
Other Liabilities	7,86,650.00	1,68,000.00
(Refer Schedule-C (C-2))	8,61,650.00	2,43,000.00
Inter Unit Advance (Refer Schedule-C (C-3))	19,16,75,719.67	16,89,96,790.67
Total Rs.	21,43,89,744.62	19,06,20,474.62



Particulars	Current year Amount(Rs)	Previous year Amount(Rs)
Properties & Assets:-		
Fixed Assets at WDV		
(As Per Sch."A")		
Balance: B/F	15,62,13,073.93	13,08,68,125.93
Since Added	1,05,54,617.00	4,30,85,024.00
Less:-Depreciation	1,82,80,546.00	1,77,40,076.00
	14,84,87,144.93	15,62,13,073.93
Current Assets		
Cash In Hand	1,540.29	1,505.29
IDBI A/C No.1780104000044420	2,98,867.74	0.00
BOI A/C No.490010110004079	64,824.32	8,37,024.57
	3,65,232.35	8,38,529.86
Other Receivables		
Academic Fee receivable	1,73,038.00	0.00
Namhay Tent & Caterers	52,650.00	52,650.00
	2,25,688.00	52,650.00
Advances & Deposit		
(As Per Schedule "D")	11,66,212.00	12,20,912.00
Deficit A/c		
Balance B/f	3,22,95,308.83	0.00
Add:- Excess of Expenditure over Income	3,18,50,158.51	3,22,95,308.83
	6,41,45,467.34	3,22,95,308.83
Total Rs.	21,43,89,744.62	19,06,20,474.62

AS PER OUR REPORT OF EVEN DATE ANNEXED HEREWITH.

For B.K. Banka & associates
Chartered Accountants
(ICAI Firm Reg.No.005814C)



Place: Ranchi
Date : 19th Oct, 2020

Partner

For Xavier Institute of Social
Service(Unit-XIPT)



Authorized Signatory



Xavier Institute of Social Service

Unit: Xavier Institute of Polytechnic & Technology

Schedule 'A' of Fixed Assets Forming Part Of Balance Sheet As At 31st March, 2020

Particulars	Rate of Dep.	Gross value as on 01.04.2019	Addition before 30th Sep 2019	Addition after 30th Sep 2019	Deduction During the year	Gross value as on 31.03.2020	Depreciation Charged till 31.03.2019	Depreciation during the year	Depreciation Charged till 31.03.2020	WDV as on 31.03.2020	WDV as on 31.03.2019
Building	10%	18,64,29,384.09	59,88,179.00	-	-	19,24,17,563.09	6,40,28,610.39	1,28,38,895.00	7,68,67,505.39	11,55,50,057.70	12,24,00,773.70
Computer & Software Equipments (Office)	40%	96,74,008.00	7,74,198.00	-	-	1,04,48,206.00	79,01,894.80	10,18,524.00	89,20,418.80	15,27,787.20	17,72,113.20
Equipments (Workshop)	15%	1,03,38,266.25	1,20,000.00	-	-	1,04,58,266.25	21,74,526.90	12,42,561.00	34,17,087.90	70,41,178.35	81,63,739.35
Furniture & Fixture	10%	2,64,74,624.72	-	-	-	2,64,74,624.72	1,62,85,693.04	15,28,340.00	1,78,14,033.04	86,60,591.69	1,01,88,931.69
Library	40%	2,48,75,291.23	3,48,176.00	33,24,064.00	-	2,85,47,531.23	1,14,62,621.19	15,42,288.00	1,30,04,909.19	1,55,42,622.04	1,34,12,670.04
Total		26,02,30,408.79	72,30,553.00	33,24,064.00	-	27,07,85,025.79	10,40,17,334.87	1,92,80,546.00	12,22,97,880.87	14,84,87,144.93	15,62,13,073.93



Xavier Institute of Social Service

Unit: Xavier Institute of Polytechnic & Technology

Schedule: C List of Liabilities

S.no	Particulars	Current year Amount(Rs)
1	<u>Advance & Deposits</u>	
	Advance from Students	18,385.00
	Advance (JCECB)	78,074.00
	Advance (JTU)	1,48,000.00
	Advance (SBTE JH)	1,90,634.00
		4,35,093.00
2	<u>Other Liabilities</u>	
	Ridge Advertising	2,68,549.00
	Neeraj Kachap (Staff)	22,105.00
	Priyanka Mishra (Staff)	2,000.00
	Samir Kumar pandey (Staff)	2,000.00
	Laxmi Newspaper Agency	12,322.00
	NIELIT Training Programme	6,726.00
	Professional Tax	6,748.00
	Salary Payable	6,000.00
	Unidentified Receipt	2,92,200.00
	Refundable Application Fee	1,68,000.00
		7,86,650.00
3	<u>Inter Unit Advance</u>	
	XISS (H.O)	19,16,75,719.67
	Grand Total	19,28,97,462.67



Xavier Institute of Social Service

Unit: Xavier Institute of Polytechnic & Technology

Schedule: D Advances & Deposits List

S.no	Particulars	Current year Amount(Rs)
1	<u>Advances to Others</u>	
	BCPL 5,57,328.00 Juli Tirkey 3,62,700.00	9,20,028.00
2	<u>Advances to Staff</u>	
	Jaitun Kumar 4,872.00 K.T.Lucas 1,07,146.00	1,12,018.00
3	Prepaid expenses	1,17,166.00
4	Security Deposit (Gas Cylinder)	17,000.00
	Total (Rs.)	11,66,212.00

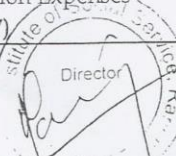



Xavier Institute of Social Service

Unit: Xavier Institute of Polytechnic & Technology

Income & Expenditure Account For The Year Ended 31st March,2020

Particulars	Current year Amount(Rs)	Previous year Amount(Rs)
Income:		
By Interest & Dividend (Refer Schedule-B (A-5))	1,16,568.00	2,91,979.00
By College Fees		
Tuition Fee (Refer Schedule-B (A-1))	1,45,78,075.00	2,26,51,688.00
Admission/Exam Fee (Refer Schedule-B (A-2))	9,53,085.00	10,36,320.00
Library Fee (Refer Schedule-B (A-3))	10,308.00	1,69,481.00
	1,55,41,468.00	2,38,57,489.00
By Other Income		
Canteen Income	-	10,000.00
Varia Income (Refer Schedule-B (A-4))	2,014.03	7,710.00
	2,014.03	17,710.00
By Balance being Excess of Expenditure Over Income transferred to Capital Fund	3,18,50,158.51	3,22,95,308.83
Total (Rs.)	4,75,10,208.54	5,64,62,486.83
Expenditure:		
To Income Applied for Educational & Charitable Purposes:		
Administrative Expenses (Refer Schedule-B (B-1))	21,57,254.94	23,45,351.83
Audit\ Legal Expenses\ Taxes\ Document charges (Refer Schedule-B (B-2))	95,865.00	26,28,554.00
Books Journal & Lab Materials Etc. (Refer Schedule-B (B-3))	3,05,290.00	1,49,133.00
General Maint. Including Build and Other Assets (Refer Schedule-B (B-4))	11,91,900.00	73,72,473.00
Placement Cell (Refer Schedule-B (B-5))	2,155.00	24,273.00
Program/Function (Refer Schedule-B (B-6))	41,159.00	1,01,113.00
Registration & Affiliation Expenses (Refer Schedule-B (B-7))	2,00,023.60	6,25,000.00


 Director


 Finance Officer

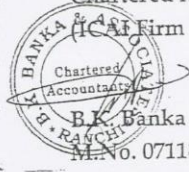

 Chartered Accountants
 RANCHI

Particulars	Current year Amount(Rs)	Previous year Amount(Rs)
Salary & Allowance (Refer Schedule-B (B-8))	2,35,80,993.00	2,45,35,822.00
Gratuity (Refer Schedule-B (B-9))	16,46,618.00	8,56,942.00
Sports & Games	-	59,328.00
Staff Development Exp (Refer Schedule-B (B-10))	8,404.00	24,421.00
	2,92,29,662.54	3,87,22,410.83
<u>To Depreciation</u> (As Per Schedule' A')	1,82,80,546.00	1,77,40,076.00
Total (Rs.)	4,75,10,208.54	5,64,62,486.83

AS PER OUR REPORT OF EVEN DATE ANNEXED HEREWITH.

For B.K. Banka & associates
Chartered Accountants

(ICAI Firm Reg.No.005814C)



B.K. Banka
M.No. 071187
Partner

Place: Ranchi
Date : 19th Oct, 2020

For Xavier Institute of Social
Service(Unit-XIPT)



Authorized Signatory



Xavier Institute of Social Service

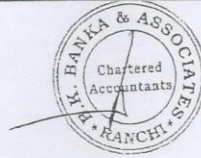
Unit: Xavier Institute of Polytechnic & Technology

Schedule-B (Income & Expenditure list)

S.no	Particulars	Current year Amount(Rs)
A Income:-		
1	Tuition Fee	
	Electronic & Comunnication Eng. Fee	16,29,500.00
	Electronics & Electrical Eng. Fee	61,39,670.00
	Mechanical Eng. Fee	68,08,905.00
		1,45,78,075.00
2	Admission Exam Fee Etc.	
	Admission Fee	2,13,000.00
	Administrative Charges	4,000.00
	ID Card	10,600.00
	Internal Examination Fee	7,16,300.00
	TC Certificate	9,185.00
		9,53,085.00
3	Library & Fine	
	Library & Late Fine	10,308.00
4	Varia Income	2,014.03
5	Interest/Dividend	
	Interest on savings	1,16,568.00
	Gross Total	1,56,60,050.03
B Expenditure		
1	Administrative Expenses	
	Advertisement (Others)	2,73,764.00
	Bank Charges	22,046.54
	Postage Telephone & Internet	6,73,129.00
	Printing & Stationery	1,50,142.00
	Taxes, Insurance Etc.	7,88,543.40
	Medical Reimbursement	15,000.00
	Advertisement Expenses	26,250.00
	Varia Expenses	738.00
	Travel & Conveyance	2,07,642.00
		21,57,254.94
2	Audit\Legal Expenses\Taxes\	
	Document charges	
	Legal Expenses	7,365.00
	Audit Fee	88,500.00
		95,865.00



S.no	Particulars	Current year Amount(Rs)
3	Books Journal & Lab Materials Etc.	
	Lab & Workshop Materials Etc.	2,65,714.00
	News Paper, Magainzine, Journal Etc.	39,576.00
		3,05,290.00
4	General Maint. Including Build and Other Assets	
	General Upkeep & Maintenance	32,670.00
	Power & Electricity	5,01,116.00
	Repairs & Maintenance Vehicles	90,337.00
	Repairs & Maint of Building	25,857.00
	Repairs & Maint (Office)	5,41,920.00
		11,91,900.00
5	Placement Cell	
	Placement Cell Hospitality Expn	2,155.00
6	Program/Function	
	Other Program & Function	41,159.00
7	Registration & Affiliation Expenses	
	Approval Fee (JUT)	1,25,000.00
	Registration/ Approval Fee Others	25,000.00
	Registration/ Approval Fee AICTE	50,023.60
		2,00,023.60
8	Salary & Allowance	
	ESIC Contribution	1,89,897.00
	Honorarium (PT) Faculty	5,34,067.00
	PF on EDLI Admin Expn.	91,074.00
	Earned Leave Encashment	2,44,371.00
	Salary to Faculty	1,43,32,851.00
	Salary to Ministerial Staff	47,50,693.00
	Salary to Technical Staff	34,38,040.00
		2,35,80,993.00
9	Gratuity	
	Provision for Gratuity Expenses (18-19)	1,31,684.00
	Gratuity to Faculty	7,73,088.00
	Gratuity to Ministerial Staff	4,19,380.00
	Gratuity to Technical Staff	3,22,466.00
		16,46,618.00
10	Staff Development Exp	
	Staff Development	8,404.00
	Gross Total	2,92,29,662.54



XAVIER INSTITUTE OF SOCIAL SERVICE
(XAVIER INSTITUTE OF POLYTECHNIC AND TECHNOLOGY)

**Significant Accounting Policies & Notes On Accounts To Consolidated
Financial Statements**

1. **Basis Of Preparation Of Financial Statements:**

The XAVIER INSTITUTE OF SOCIAL SERVICE: **XAVIER INSTITUTE OF POLYTECHNIC AND TECHNOLOGY** follow mercantile system of accounting and entries are recorded in line with the same system for income as well as expenditures...

2. **Fixed Assets & Depreciation:**

- (a) Fixed assets are stated at written down value.
- (b) Depreciation on fixed assets has been provided under W.D.V. method at the rates prescribed by the Income Tax Rules.

3. **Income and expenses Recognition:**

Income and expenses are recognized on Accrual basis.

4. **Investments:** nil

5. **Employee benefit**

Provision has been made for gratuity. Calculation is based on present rule prevailing in the society.

6. Previous Year figures have been regrouped & re-classified, so as to confirm to current years classification.

7. Internal vouchers have been relied upon wherever external vouchers have not been found.



Auditor's Report for the Financial Year 2018-19

B. K. BANKA & ASSOCIATES CHARTERED ACCOUNTANTS

Head Office :
1st Floor, Room No. 2
Heritage Parmeshwar
52, Circular Road, Opp. B.I.T. Extension
Lalpur, Ranchi - 834 001
Tele/Fax : 0651-2212412, 09931382126 (Office)
Resi. : 0651-2216787
Mob. : 94311-05822
E-mail : bkbankaassociates1991@gmail.com
cabinodbanka83@gmail.com
binod_bank@yahoo.in

Ref.

Date :

FORM NO. 10B
[See Rule 17B]

AUDIT REPORT

under section 12A(b) of the Income-tax Act, 1961, in the case of charitable or religious trusts or institutions

We have examined the Balance Sheet of "Xavier Institute of Social Services, Ranchi [Unit : Xavier Institute of Polytechnic & Technology]" as at 31st March, 2019 and the Income and Expenditure Account & Receipt Payment for the year ended on that date which are in agreement with the books of accounts maintained by the said trust or institution.

We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of the audit. In our opinion proper books of accounts have been kept by the above named trust/ institutions visited by us so far as appear from our examination of the books.

In our opinion and to the best of our information, and according to information given to us, the said accounts give a true and fair view:

- (i) In the case of the Balance Sheet, of the state of affairs of the above named trust/institution as at 31st March, 2019, and
- (ii) In the case of the Income & Expenditure Account, of the Surplus/Deficit of its accounting year ending on 31st March, 2019.

The Prescribed particulars are annexed hereto.

For B.K. Banka & Associates
Chartered Accountants
(ICAI Firm Reg. No. 005814C)



B.K. Banka
M. No. 071187
Partner
UDIN- 19071187AAAADM2802

Place : Ranchi
Date : 03.09.2019

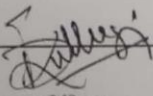
Branch : DHANBAD

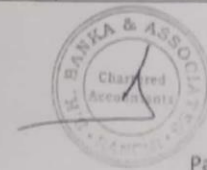
Xavier Institute of Social Service

Unit: Xavier Institute of Polytechnic & Technology

Balance sheet As At 31st March, 2019

Particulars	Current year Amount(Rs)	Previous year Amount(Rs)
Funds & Liabilities:		
Capital Fund		
As Per Last Balance Sheet	11,373,611.95	
	11373611.95	11373611.95
Other Fund		
Gratuity FundB/f	2,938,076.00	
Add:- Provision made during the year	856,942.00	
Less:- Utilised during the year	231,988.00	
	3,563,030.00	2938076.00
Development FundB/f	0.00	
Add:- Received during the year	1,155,040.00	
Less:- Utilised during the year	18,455.00	0.00
	1,136,585.00	0.00
Advances & Deposits		
(Refer Schedule-C (C-1))	334,313.00	107639.00
Other Liabilities		
Provision for Audit fee	75000.00	6325.00
Other Liabilities	5141144.00	5981004.00
(Refer Schedule-C (C-2))	5216144.00	5987329.00
Inter Unit Advance		
(Refer Schedule-C (C-3))	168996790.7	112166103.07
Total Rs.	190,620,474.62	132,572,759.02
Properties & Assets:-		
Fixed Assets at WDV		
(As Per Sch."A")		
Balance: B/F	130,868,125.93	
Since Added	43,085,024.00	
Less:-Depreciation	17,740,076.00	
	156,213,073.93	130868125.94


 Finance Officer
 Xavier Institute of Social Service
 Ranchi



Particulars	Current year Amount(Rs)	Previous year Amount(Rs)
Current Assets		
Cash In Hand	1,505.29	1059.29
BOI A/C No.490010110004079	837,024.57	931667.79
	838,529.86	932727.08
Other Receivables		
Namhay Tent & Caterers	52,650.00	40850.00
Advances & Deposit (As Per Schedule "C")	1,220,912.00	731056.00
Deficit A/c		
Balance B/f	Nil	
Add:- Excess of Expenditure over Income	32295308.83	
	32,295,308.83	0.00
Total Rs.	190,620,474.62	132,572,759.02

AS PER OUR REPORT OF EVEN DATE ANNEXED HEREWITH.

For B.K. Banka & associates

Chartered Accountants

(ICAI Firm Reg.No.005814C)



B.K. Banka

M.No. 071187

Partner

Place: Ranchi

Date : 03.09.2019

[Signature]

Authorized Signatory

Finance Officer
Xavier Institute of Social Service
Ranchi

[Signature]



Xavier Institute of Social Service, Ranchi

Unit: Xavier Institute of Polytechnic & Technology

Schedule 'A' of Fixed Assets Forming Part Of Balance Sheet As At 31st March, 2019

Particulars	Rate of Depreciation	Gross value as on 01.04.2018	Addition before 30th Sep 2018	Addition after 30th Sep 2018	Deduction During the year	Gross value as on 31.03.2019	Depreciation Charged till 31.03.2018	Depreciation during the year	Depreciation Charged till 31.03.2019	WDV as on 31.03.2019	WDV as on 31.03.2018
Building	10%	153449782.09	11940886.00	21038716.00	0.00	186429384.09	51597342.39	12431268.00	64028610.39	122400773.70	101852439.70
Computer & Software	40%	9477283.00	0.00	196725.00	0.00	9674008.00	6786061.80	1115833.00	7901894.80	1772113.20	2691221.21
Equipments (Office)	15%	6091273.25	1422173.00	2824820.00	0.00	10338266.25	983115.90	1191411.00	2174526.90	8163739.35	5108157.35
Equipments (Workshop)	15%	23526937.72	9799.00	2937888.00	0.00	26474624.72	14746872.04	1538821.00	16285693.04	10188931.69	8780065.68
Furniture & Fixture	10%	22384706.23	37057.00	2453528.00	0.00	24875291.23	10108631.19	1353990.00	11462621.19	13412670.04	12276075.04
Library	40%	2215402.50	0.00	223432.00	0.00	2438834.50	2055235.55	108753.00	2163988.55	274845.95	160166.95
Total		217145384.79	13409915.00	29675109.00	0.00	260230408.79	86277258.87	17740076.00	104017334.87	156213073.93	130868125.93

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Xavier Institute of Social Service
Ranchi



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Xavier Institute of Social Service

Unit: Xavier Institute of Polytechnic & Technology

Schedule: C List of Liabilities

S.no	Particulars	Current year Amount(Rs)
1	Advance & Deposits	
	Advance from Students	12605.00
	Advance (JCECB)	77074.00
	Advance (JTU)	148000.00
	Advance (SBTE JH)	96634.00
		334313.00
2	Other Liabilities	
	Caution Deposit	4802653.00
	Refundable Application Fee	168000.00
	TDS payable	170491.00
		5141144.00
3	Inter Unit Advance	
	XISS (House)	168996790.67
Grand Total		174472247.67

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Finance Officer
Xavier Institute of Social Service
Ranchi



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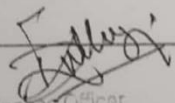


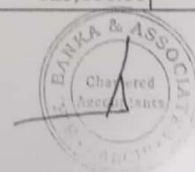
Xavier Institute of Social Service

Unit: Xavier Institute of Polytechnic & Technology

Income & Expenditure Account For The Year Ended 31st March, 2019

Particulars	Current year Amount(Rs)	Previous year Amount(Rs)
Income:		
By Interest & Dividend (Refer Schedule-B (A-6))	291,979.00	183387.00
By College Fees		
Tuition Fee (Refer Schedule-B (A-1))	22651688.00	36034385.00
Admission/Exam Fee (Refer Schedule-B (A-2))	1,036,320.00	2322385.00
Library Fee (Refer Schedule-B (A-3))	169481.00	103280.00
	23,857,489.00	38,460,050.00
By Other Income		
Canteen Income (Refer Schedule-B (A-4))	10000.00	70000.00
Varia Income (Refer Schedule-B (A-5))	7710.00	790.00
	17,710.00	70,790.00
By Balance being Excess of Expenditure Over Income transferred to Capital Fund	32,295,308.83	10,222,559.53
Total (Rs.)	56,462,486.83	48,936,786.53
Expenditure:		
To Income Applied for Educational & Charitable Purposes:		
Administrative Expenses (Refer Schedule-B (B-1))	2,345,351.83	1424093.60
Audit\Legal Expenses\Taxes\ Document charges (Refer Schedule-B (B-2))	2,628,554.00	201175.00
Books Journal & Lab Materials Etc. (Refer Schedule-B (B-3))	149,133.00	56687.00
General Maint. Including Build and Other Assets (Refer Schedule-B (B-4))	7,372,473.00	1120541.00
Placement Cell (Refer Schedule-B (B-5))	24,273.00	13297.00
Program/Function (Refer Schedule-B (B-6))	101,113.00	99228.00
Registration & Affiliation Expenses	625,000.00	350000.00


 Finance Officer
 Xavier Institute of Social Service
 Ranchi

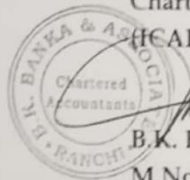


Particulars	Current year Amount(Rs)	Previous year Amount(Rs)
(Refer Schedule-B (B-7)) Salary & Allowance	25,392,764.00	28782082.00
(Refer Schedule-B (B-8)) Sports & Games	59,328.00	747.00
(Refer Schedule-B (B-9)) Admission process expenses	0.00	824980.00
Staff Development Exp (Refer Schedule-B (B-10))	24,421.00	160866.00
	38,722,410.83	33033696.60
<u>To Depreciation</u> (As Per Schedule ' A')	17,740,076.00	15903089.93
Total (Rs.)	56,462,486.83	48936786.53

AS PER OUR REPORT OF EVEN DATE ANNEXED HERewith.

For B.K. Banka & associates
Chartered Accountants

(ICAI Firm Reg.No.005814C)



B.K. Banka
M.No. 071187
Partner

Place: Ranchi
Date : 03.09.2019

[Signature]
Authorized Signatory
Finance Officer
Xavier Institute of Social Service
Ranchi

[Signature]

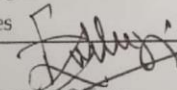


Xavier Institute of Social Service

Unit: Xavier Institute of Polytechnic & Technology

Schedule-B (Income & Expenditure list)

S.no	Particulars	Current year Amount(Rs)
A	Income:-	
1	Tuition Fee	
	Electronic & Comunnication Eng. Fee	2700393.00
	Electronics & Electrical Eng. Fee	9299333.00
	Mechanical Eng. Fee	10651962.00
		22651688.00
2	Admission Exam Fee Etc.	
	Admission Fee	21813.00
	Administrative Charges	17000.00
	ID Card	1400.00
	Internal Examination Fee	987402.00
	TC Certificate	8705.00
		1036320.00
3	Library & Fine	
	Library & Late Fine	169481.00
4	Canteen Income	10000.00
5	Varia Income	7710.00
6	Interest/Dividend	
	Interest on savings	139292.00
	Interest on Fixed Deposit	152687.00
		291979.00
	Gross Total	23875199.00
B	Expenditure	
1	Administrative Expenses	
	Advertisement (Others)	345080.00
	Bank Charges	1395.83
	Postage Telephone & Internet	955325.00
	Printing & Stationery	224571.00
	Taxes, Insurance Etc.	161608.00
	Advertisement Expenses	42000.00
	Travel & Conveyance	615372.00
		2345351.83
2	Audit\Legal Expenses\Taxes\ Document charges	
	Legal Expenses	2269350.00


 Finance Officer
 Xavier Institute of Social Service
 Ranchi

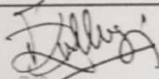


Xavier Institute of Social Service

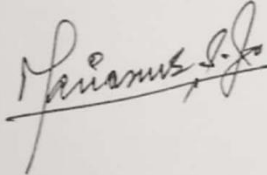
Unit: Xavier Institute of Polytechnic & Technology

Schedule: C Advances & Deposits List

S.no	Particulars	Current year Amount(Rs)
1	<u>Advances to Others</u>	
	BCPL	557,328.00
	Sify Technology	7,948.00
	Juli Tirkey	95,000.00
		<hr/>
		660,276.00
2	<u>Advances to Staff</u>	
	Fulchand Kujur	7,000.00
	Kanti Tirkey	9,000.00
	K.T.Lucas	25,000.00
		<hr/>
		41,000.00
3	Prepaid expenses	502,636.00
4	Security Deposit (Gas Cyclinder)	17,000.00
	Total (Rs.)	1,220,912.00


Finance Officer
Xavier Institute of Social Service
Ranchi





21. Best Practice adopted, if any

Note: Suppression and /or misrepresentation of information shall invite appropriate penal action. The Website shall be dynamically updated with regard to Mandatory Disclosures.

22. Organizational Chart

