Annexure-18

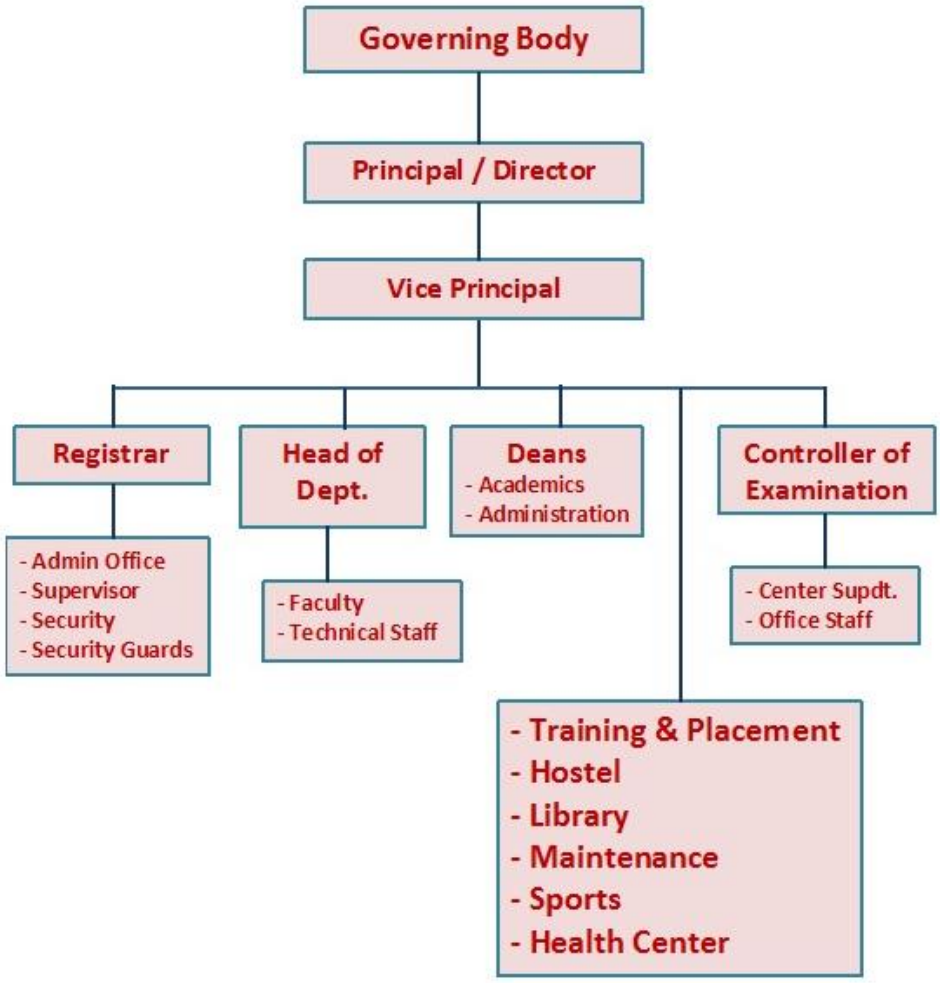
The following information shall be given in the information Brochure besides being hosted on the Institution's official Website.

The onus of the authenticity of the information lies with the Institution ONLY and not on AICTE.

18.1	**Name of the Institution**	**SRI AUROBINDO INSTITUTE OF TECHNOLOGY**
	Address including Telephone, Mobile, E-Mail	Indore-Ujjain Highway, Near MR-10 Crossing, Gram Bhavarasla, Indore-453555. Madhya Pradesh. Telephone: 0731-3537901, Mobile: 9630018882 E-Mail: info@sait.ac.in
18.2	**Name and address of the Society and the Trustees**	**SRI AUROBINDO INSTITUTE OF MANAGEMENT SCIENCE & TECHNOLOGY SOCIETY, INDORE**
	Address including Telephone, Mobile, E-Mail	C/o Sri Aurobindo Institute of Pharmacy, Indore-Ujjain State Highway, Gram Bhanwarasala, Indore-453555. Madhya Pradesh. Telephone: 0731-3537901, Mobile: 9630018882, E-Mail: kinshuk.trivedi@sait.ac.in
	Name of the Trustees	1. Shri Umesh Trivedi, Chairman, Journalist. 2. Smt. Chani Trivedi, Vice-Chairperson, Management Professional. 3. Smt. Kirti Mishra, Vice-Chairperson, Business 4. Shri Kinshuk Trivedi, General Secretary, Management Professional 5. Smt. Sonal Goyal, Joint Secretary, Social Worker 6. Smt. Rashmi Trivedi, Treasurer, Educationist. 7. Smt. Richa Jeevan Khanna, Member, Educationist. 8. Shri Anshul Trivedi, Member, Social Worker. 9. Shri Mahendra Joshi, Member, Social Worker.
18.3	**Name and Address of the Principal/Director**	**DR. AAQUIL BUNGLOWALA**
	• Address including Telephone, Mobile, E-Mail	G-27, M.I.G. Colony, Indore (MP), Indore-452001. Madhya Pradesh. Telephone: 0731-3537903 Mobile: (+91) 7722073137, E-Mail: director@sait.ac.in
18.4	**Name of the affiliating University**	**1. RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL, M.P.**

		2. DEVI AHILYA VISHWAVIDYALAYA, INDORE, M.P.
18.5	**Governance**	
	i. Organizational chart	

ORGANIZATIONAL CHART AND PROCESSES



	ii. Grievance Redressal mechanism for Faculty, staff and students
	https://www.aurogroup.ac/technology/grievance
	iii. Establishment of Anti Ragging Committee

S. No.	Name of the Staff	Position	Designation	Telephone No.
1	Dr. Aaquil Bunglowala	Chairman	DIRECTOR	7722073137
2	Mr. Amit M Holkar	Co-chairman	Head Academics	9827575903

3	Names Awaited	Member	Collector office	
4	Names Awaited	Member	SDO (Banganga)	
5	Mr. Hemant Pal	Member	MEDIA	9755499919
6	Mr. Arun Patel	Member	NGO	9425010804
7	Mr. Vaibhav Sharma	Member	APS	9993484010
8	Mr. Sunil Tripathi	Member	Parent	8319157488
9	Mr. Neeraj Tiwari – B.Tech-CSE-AIML	Member	Student	9294554475
10	Mr. Yugant Tripathi – B.Tech.-CE	Member	Student	9179563240
11	Mr. Somya Jain - BDes	Member	Student	8905346002
12	Ms. Tanya Khatri – MBA (FT)	Member	Student	6376358367
13	Mr. Akshat Jaiswal – MBA-HA	Member	Student	7067557107
14	Mr. Prashant Vishwakarma – MTech-CE	Member	Student	8305822585

ANTI RAGGING SQUAD

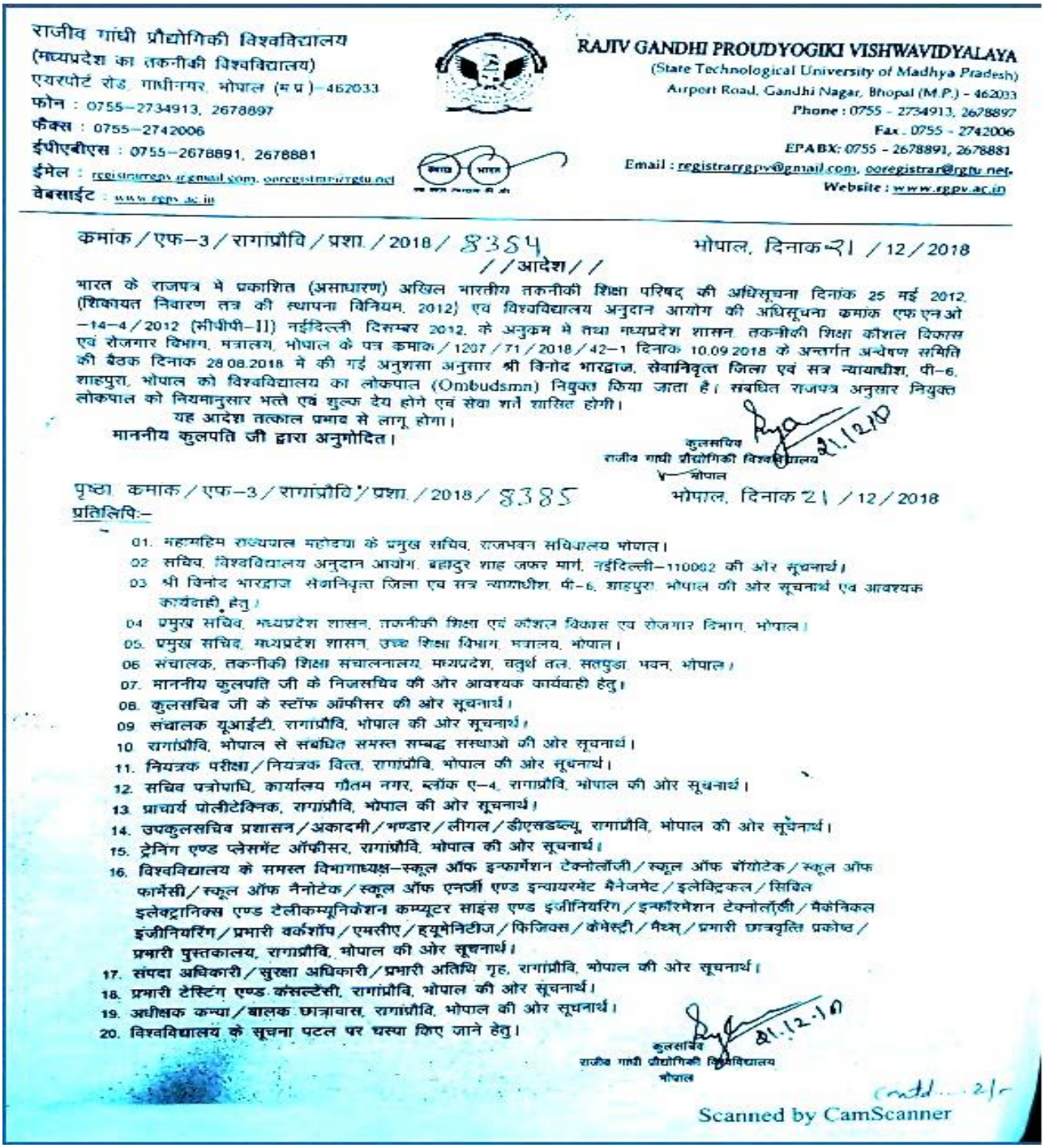
S.No.	Name of Staff	Designation	Position	Mob. No.
1	Dr. Aaquil Bunglowala	Director	Chairman	9826047547
2	Mr. Amit Holkar	Head Academics	Co-Chairman	9827575903
3	Names Awaited	Collector Office	Member	
4	Names Awaited	SDO (Banganga)	Member	
5	Dr. Anupam Mandloi	Vice Principal	Member	9993353133
6	Mr. Vaibhav Sharma	Assistant Professor	Member	9993484010
7	Mr. Anant Bharadwaj	Assistant Professor (HoD)	Member	9074486359
8	Mr. Shantanu Mehta	Assistant Professor	Member	8982345872
9	Ms. Ankita Agnihotri	Assistant Professor	Member	9827012822
10	Mrs. Divyani Gupta	Assistant Professor	Member	7083040138
11	Mr. Sunil Parihar	Assistant Professor (HoD)	Member	9993117025
12	Ms. Shivangi Chauhan	Assistant Professor	Member	9303204865
13	Ms. Purva Jain	Assistant Professor	Member	9928222235
14	Ms. Neha Dubey	Assistant Professor	Member	8818887255
15	Mr. Mayank Shrivastava	Assistant Professor	Member	8871541369
16	Ms. Mrudula Kale	Assistant Professor	Member	9754396017
17	Mr. Sumit Kumar	Assistant Professor	Member	8966962543
18	Ms. Rojalin Samantaroy	Assistant Professor	Member	8984811150
19	Ms. Monika Soni	Assistant Professor	Member	7566172352
20	Ms. Shubhangi Sharma Dongre	Assistant Professor	Member	7898157628

ANTI RAGGING SQUAD

S.No.	Name of Staff	Designation	Position	Mob. No.
21	Mr. Ranvijay Parmar	Assistant Professor	Member	9755655947
22	Mr. Sharad Kumar Nema	Assistant Professor (HOD)	Member	9479984057
23	Ms. Sarita Shastri	Assistant Professor	Member	7000202768
24	Mr. Manoj Verma	Assistant Professor (Hod)	Member	9826089701
25	Mr. Amit Prasad	Assistant Professor	Member	9827620990
26	Mr. Kamlesh Gurjar	Assistant Professor (Hod)	Member	9926677368
27	Mr. Suresh Kumar Saroj	Assistant Professor	Member	8130423743
28	Dr. Neelu Sharma	Assistant Professor	Member	8269992589
29	Ms. Shikha Panchariya	Assistant Professor	Member	9039126627
30	Dr. Raju C. John	Assistant Professor	Member	9329868822
31	Mrs. Harshani Vikas Jadhav	Assistant Professor	Member	7710042624
32	Ms. Lata Vyas	Assistant Professor	Member	7879692721
33	Ms. Jahnavi Raghuvanshi	Assistant Professor	Member	8303105250
34	Mr. Aman Upadhyay	Assistant Professor	Member	9479748488
35	Mr. Pranav M. Sakhalkar	Assistant Professor	Member	8308699721
36	Dr. Richa D. Nambisan	Assistant Professor	Member	9826064274
37	Ms. Prastuti Gupta	Assistant Professor	Member	9993593370
38	Dr. Sanskruti Chorghade	Assistant Professor	Member	9754526898
39	Mr. Siddhrath Pastariya	Administrative Officer	Member	9826746649
40	Mr. Amit Singh Parihar	Senior It Manager	Member	9926526737
41	Mr. Lokesh Malokar	Marketing Executive	Member	9424044381
42	Mr. Deepak Soni	Purchase Manager	Member	9691977088
43	Mr. Sanjay Kaushal	Senior Executive Maint.	Member	9893057627
44	Mr. Mukesh Harode	Senior Technical Assistant	Member	9893081102
45	Mr. Alok Mathur	Senior Office Executive	Member	9098336962
46	Mr. Ramkaran Yadav	Junior Hr Executive	Member	8602281737
47	Mr. Gajanand Chore	Book Lifter	Member	9926038691
48	Mr. Sudesh Deshbhratar	Assistant Registrar	Member	9754054310
49	Mr. Kartik Yadav	Assistant Manager	Member	9098053675
50	Mr. Hublal Kashyap	Daftari	Member	9754051769
51	Mr. Awadhesh K Pandey	Librarian	Member	8103620040
52	Mr. Sheikh Vajid Ahmed	Head Placement & Carrier Development	Member	9303243560

	iv. Establishment of Online Grievance Redressal Mechanism	Yes

		www.sait.ac.in
	v. Establishment of Grievance Redressal Committee in the Institution and Appointment of OMBUDSMAN by the University	Yes Shri Vinod Bhardwaj (Retd. District Court) (RGPV Letter attached



राजीव गांधी प्रौद्योगिकी विश्वविद्यालय
(मध्यप्रदेश का तकनीकी विश्वविद्यालय)
एयरपोर्ट रोड, गांधीनगर, भोपाल (म.प्र.)-462033
फोन : 0755-2734913, 2678897
फैक्स : 0755-2742006
ईपीएबीएस : 0755-2678891, 2678881
ईमेल : registrarrgpv@gmail.com, ooregistrar@rgtu.net
वेबसाईट : www.rgpv.ac.in

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA
(State Technological University of Madhya Pradesh)
Airport Road, Gandhi Nagar, Bhopal (M.P.) - 462033
Phone : 0755 - 2734913, 2678897
Fax . 0755 - 2742006
EPABX: 0755 - 2678891, 2678881
Email : registrarrgpv@gmail.com, ooregistrar@rgtu.net,
Website : www.rgpv.ac.in

क्रमांक/एफ-3/रागाप्रौवि/प्रशा./2018/8354 भोपाल, दिनांक 21/12/2018

//आदेश//

भारत के राजपत्र में प्रकाशित (असाधारण) अखिल भारतीय तकनीकी शिक्षा परिषद की अधिसूचना दिनांक 25 मई 2012 (शिकायत निवारण तंत्र की स्थापना विनियम, 2012) एवं विश्वविद्यालय अनुदान आयोग की अधिसूचना क्रमांक एफ एन ओ -14-4/2012 (मीपीपी-II) नईदिल्ली दिसम्बर 2012, के अनुक्रम में तथा मध्यप्रदेश शासन तकनीकी शिक्षा कौशल विकास एवं रोजगार विभाग, मंत्रालय, भोपाल के पत्र क्रमांक/1207/71/2018/42-1 दिनांक 10.09.2018 के अन्तर्गत अन्वेषण समिति की बैठक दिनांक 28.08.2018 में की गई अनुशंसा अनुसार श्री विनोद भारद्वाज, सेवानिवृत्त जिला एवं सत्र न्यायाधीश, पी-6, शाहपुरा, भोपाल को विश्वविद्यालय का लोकपाल (Ombudsman) नियुक्त किया जाता है। संबंधित राजपत्र अनुसार नियुक्त लोकपाल को नियमानुसार भत्ते एवं शुल्क देय होंगे एवं सेवा शर्तें शासित होंगी।

यह आदेश तत्काल प्रभाव से लागू होगा।

माननीय कुलपति जी द्वारा अनुमोदित।

कुलसचिव
राजीव गांधी प्रौद्योगिकी विश्वविद्यालय
भोपाल
21.12.18

पृष्ठ क्रमांक/एफ-3/रागाप्रौवि/प्रशा./2018/8385 भोपाल, दिनांक 21/12/2018

प्रतिलिपि:-

01. महामहिम राज्यपाल महोदया के प्रमुख सचिव, राजभवन सचिवालय भोपाल।
02. सचिव, विश्वविद्यालय अनुदान आयोग, बहादुर शाह जफर मार्ग, नईदिल्ली-110002 की ओर सूचनार्थ।
03. श्री विनोद भारद्वाज सेवानिवृत्त जिला एवं सत्र न्यायाधीश, पी-6, शाहपुरा, भोपाल की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु।
04. प्रमुख सचिव, मध्यप्रदेश शासन, तकनीकी शिक्षा एवं कौशल विकास एवं रोजगार विभाग, भोपाल।
05. प्रमुख सचिव, मध्यप्रदेश शासन, उच्च शिक्षा विभाग, मंत्रालय, भोपाल।
06. संचालक, तकनीकी शिक्षा संचालनालय, मध्यप्रदेश, चतुर्थ तल, सतपुड़ा भवन, भोपाल।
07. माननीय कुलपति जी के निजसचिव की ओर आवश्यक कार्यवाही हेतु।
08. कुलसचिव जी के स्टॉफ ऑफीसर की ओर सूचनार्थ।
09. संचालक यूआईटी, रागाप्रौवि, भोपाल की ओर सूचनार्थ।
10. रागाप्रौवि, भोपाल से संबंधित समस्त सम्बद्ध संस्थाओं की ओर सूचनार्थ।
11. नियंत्रक परीक्षा/नियंत्रक वित्त, रागाप्रौवि, भोपाल की ओर सूचनार्थ।
12. सचिव पत्रोपाधि, कार्यालय गौतम नगर, ब्लॉक ए-4, रागाप्रौवि, भोपाल की ओर सूचनार्थ।
13. प्राचार्य पोलीटेक्निक, रागाप्रौवि, भोपाल की ओर सूचनार्थ।
14. उपकुलसचिव प्रशासन/अकादमी/भण्डार/लीगल/डीएसडब्ल्यू, रागाप्रौवि, भोपाल की ओर सूचनार्थ।
15. ट्रेनिंग एण्ड प्लेसमेंट ऑफीसर, रागाप्रौवि, भोपाल की ओर सूचनार्थ।
16. विश्वविद्यालय के समस्त विभागाध्यक्ष-स्कूल ऑफ इन्फार्मेशन टेक्नोलॉजी/स्कूल ऑफ बॉयोटेक/स्कूल ऑफ फार्मेसी/स्कूल ऑफ नैनोटेक/स्कूल ऑफ एनर्जी एण्ड इन्वायरमेंट मैनेजमेंट/इलेक्ट्रिकल/सिविल इलेक्ट्रानिक्स एण्ड टेलीकम्यूनिकेशन कम्प्यूटर साइंस एण्ड इंजीनियरिंग/इन्फॉरमेशन टेक्नोलॉजी/मैकेनिकल इंजीनियरिंग/प्रभारी वर्कशॉप/एमसीए/ह्यूमेनिटीज/फिजिक्स/केमेस्ट्री/मैथ्स/प्रभारी छात्रवृत्ति प्रकोष्ठ/प्रभारी पुस्तकालय, रागाप्रौवि, भोपाल की ओर सूचनार्थ।
17. संपदा अधिकारी/सुरक्षा अधिकारी/प्रभारी अतिथि गृह, रागाप्रौवि, भोपाल की ओर सूचनार्थ।
18. प्रभारी टेस्टिंग एण्ड कंसल्टेंसी, रागाप्रौवि, भोपाल की ओर सूचनार्थ।
19. अधीक्षक कन्या/बालक छात्रावास, रागाप्रौवि, भोपाल की ओर सूचनार्थ।
20. विश्वविद्यालय के सूचना पटल पर चस्पा किए जाने हेतु।

कुलसचिव
राजीव गांधी प्रौद्योगिकी विश्वविद्यालय
भोपाल
21.12.18

contd... 2/-

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vi. Establishment of Internal Committee (IC) - YES

Establishment of Internal Committee (IC) (As per Section 4 All India Council for Technical Education (Gender Sensitization, Prevention and Prohibition of Sexual Harassment of Women Employees and Students and Redressal of Grievances in Technical Institutions) Regulations, 2016 vide No. F.AICTE/ WH/2016/01dated 10th June, 2016 *.

IC comprises of the following members

1	Presiding Officer	Dr. Aaquil Bunglowala Professor & Director, SAIT	Chairman
2	Three Faculty Members	Dr. Richa D Nambisan, Associate Professor, SAIT	Coordinator
		Dr. Neelu Sharma Assistant Professor, SAIT	Member
		Ms. Neha Dubey Assistant Professor, SAIT	Member
3	Two non-Teaching Employees	Mrs. Payal Choudhary, AM, HR	Member
		Shri Yeshovardhan Singh Senior Manager Admissions, SAIT	Member
4	A Member from NGO or a person Familiar with sexual harassment issues	Mr. Arun Patel	Member
5	Five Students Nominees (If the matter involves students)	Ms. Srishti Doshi – B.Tech.-CSE	Member
		Ms. Yashvini Verma – B.Tech.-EC	Member
		Ms. Dhaniksha Rathore – MBA (FT)	Member
		Ms. Kritika Jain – MBA – HA	Member
		Ms. Janiya Seth – B.Design	Member

Member Secretary/Chairperson, ICC shall receive the complaints of sexual harassment and gender based violence if any, on behalf of ICC and shall co-ordinate the deliberations of the ICC on the complaints received.

DIRECTOR

vii. Establishment of Committee for SC/ ST - YES

Reference: As per the norms of AICTE-Approval Process Handbook 2024-25 to 2026-27.

As per the Scheduled Castes and the Scheduled Tribes **(Prevention of Atrocities)** Act, 1989, No. 33 of 1989, dated 11.09.1989, and With reference to above, the following SC/ST Committee is being reconstituted comprising of following persons of **Sri Aurobindo Institute of Technology, Indore, M.P.**

S No.	Name of Staff / Student Members	Designation	SC/ST Committee Members	Contact Number

1	Dr. Aaquil Bunglowala	Professor & Director	Chairman	7722073137
2	Dr. Anupam Mandloi	Professor & Vice Principal	Coordinator	9993353133
3	Mr. Kamlesh Gurjar	Asst. Professor	Liaison Officer	9926677368
4	Mr. Sudesh Deshbhratar	Asst. Registrar	Member	9754054310
5	Mr. Alok Mathur	Sr. Office Executive	Member	9098336962
6	Ms. Sakshi Bhanpuriya	Student B.Design	Student Member (If the matter involves students)	9827298898
7	Ms. Shivani Choudhary	Student B.Tech.		8821006104
8	Mr. Dhavaj Sironjiya	Student MBA(FT)		6261414105
9	Mr. Krishnakant Shakya	Student MBA-HA		7415470198
10	Mr. Mayank Bendwal	Student B.Tech.		7697031828

Concerned Scheduled Castes and the Scheduled Tribes students, staff members and their parent may henceforth approach the committee for SC & ST for any complaint that comes under the purview of above acts.

Establishment of above committee shall come into effect immediately and shall remain in force until further notification on the issue.

DIRECTOR

viii. Internal Quality Assurance Cell - YES

Reference: As per the norms in AICTE-Approval Process Handbook 2024-25 to 2026-27.

With reference to above the following Internal Quality Assurance Cell (IQAC) Committee is being reconstituted comprising of following persons of **Sri Aurobindo Institute of Technology, Indore, M.P.**

S No.	Name of Staff / Student Members	Designation	IQAC Committee Members	Contact Number
1.	Dr. Aaquil Bunglowala	Professor & Director, SAIT	Chairman	7722073137
2.	Dr. Anupam Mandloi	Vice Principal	Coordinator	9993353133
3.	Mr. Amit Holkar	Head Academic	Member	9827575903
4.	Dr. Kunal Rawal	Associate Professor	Member	9713942150
5.	Mr. Kamlesh Gurjar	Assistant Professor	Member	9926677368
6.	Mr. Sunil Parihar	Assistant Professor	Member	9131040008
7.	Mr. Anant Bhardwaj	Assistant Professor	Member	9074486359
8.	Dr. Neelu Sharma	Assistant Professor	Member	8269992589
9.	Mr. Sharad Nema	Assistant Professor	Member	9479984057
10.	Mr. Manoj Verma	Assistant Professor	Member	9826089701

	ix. Equal Opportunity facilities Cell

18.6	**Programmes**	
	i. Name of Programmes approved by AICTE	1) ENGINEERING AND TECHNOLOGY 2) DESIGN 3) MANAGEMENT
	ii. Name of Programmes Accredited by NBA	Not Applicable
	iii. Status of Accreditation of the Courses	Not Applicable
	iv. Total number of Courses	Not Applicable
	v. For each Programme the following details are to be given (Preferably in Tabular form):	
	a. Name	**1) Engineering and Technology** **2) Design** **3) Management**
	b. Number of seats	**1) Engineering and Technology** **UG -** B.Tech.- CSE = 210 B.Tech.- EC = 30 B.Tech.- ME = 30 B.Tech.- CE = 30 B.Tech.-AIML = 60 **PG -** M.Tech. - CSE = 18 M.Tech. - CE = 18 **2) Design** **UG -** B.Des.-Des. = 60 **3) Management** PG (MBA) = 120 PG (MBA-Hospital Administration) = 60
	c. Duration	**1) Engineering and Technology** UG (B.Tech.) = Four Years PG (M.Tech.) = Two Years **2) Design** UG (BDesign) = Four Years **3) Management** PG (MBA) = Two Years PG (MBA-HA) = Two Years
	d. Cut off marks/rank of admission during the last years	As per Directorate of Technical Education, Bhopal
	vi. Fee (as approved by the state government)	**1) Engineering and Technology** UG (B.Tech.) = Rs.53,500/- per year PG (M.Tech.) = Rs.62,000/- per year **2) Design**

		UG (B.Design) = Rs.98,000/- per year **3) Management** PG (MBA) = Rs. 49,500/- PG (MBA-HA) = Rs. 51,000/-
	vii. Name and duration of programme(s) having Twinning and Collaboration with Foreign University(s) and being run in the same Campus along with status of their AICTE approval. If there is Foreign Collaboration, give the following details, if any:	Not Applicable
	a. Details of the Foreign University, if any	Not Applicable
	b. Name of the University	Not Applicable
	c. Address	Not Applicable
	d. Website	Not Applicable
	e. Accreditation status of the University in its Home Country	Not Applicable
	f. Ranking of the University in the Home Country	Not Applicable
	g. Whether the degree offered is equivalent to an Indian Degree? If yes, the name of the agency which has approved equivalence. If no, implications for students in terms of pursuit of higher studies in India and abroad and job both within and outside the country	Not Applicable
	viii. Nature of Collaboration	Not Applicable
	ix. Complete details of payment a student has to make to get the full benefit of Collaboration	Not Applicable
	x. For each Programme Collaborated provide the following:	Not Applicable
	xi. Programme Focus	Not Applicable
	xii. Number of seats	Not Applicable
	xiii. Admission Procedure	Not Applicable
	xiv. Fee (as approved by the state government)	Not Applicable
	xv. Whether the Collaboration Programme is approved by AICTE? If not whether the Domestic/Foreign University has applied to AICTE for approval	Not Applicable
18.7	**Faculty**	
	• Course/Branch wise list Faculty members:	Attached

	• Permanent Faculty	121 Nos.
	• Adjunct Faculty	Not Applicable
	• Permanent Faculty: Student Ratio	B.Tech. - 1:20, M.Tech. – 1:15, MBA – 1:20 (As per AICTE norms)
18.8	**Profile of Director**	
	Name : **Dr. Aaquil Bunglowala** Date of Birth : 04/02/1967 Unique ID : 110092	

Professor& Director, Sri Aurobindo Institute of Technology, Indore
Ph.D., M.Tech., M.B.A. B.E. with 30+ years in Education& Corporate Sector
(+91) 7722073137 | aaquilbun@gmail.com | G-27, M.I.G. Colony, Indore (MP) | DOB: Dec 21, 1971

A proficient leader, well-qualified, and technically accomplished research scientist with an excellent academic background. With a wealth of 30 years' experience in the field, shouldered many senior-level administrative positions in universities in India, showcasing strong leadership skills and ability to manage academic institutions effectively

MAIN ACCOUNTABILITIES

- ★ Administration of Academic Operations
- ★ Board of Studies Member
- ★ Academic Council member
- ★ Industry Relationships and Connections
- ★ Management of Quality Assurance and Accreditation (NAAC/NBA)
- ★ MSME(Ministry of Micro, Small & Medium Enterprises) Incubation Centre Nodal Officer
- ★ Senior Faculty Retention Strategies
- ★ Recruitment of Visiting faculty members.
- ★ Panel Member for Core Faculty Recruitment
- ★ Set up of Professional Bodies like IEEE, CSI, ISTE, GDSC Club, Meta club etc
- ★ Organization of National/International Conferences, E Summit, TedX, MUN, Hackathon, Datathon, Marathons, Blood Donation camp, Tech Fest, Expert Sessions, Industrial Visits, Newsletters, Sunday Tech Series I, II and III, FDPs and Workshops etc.,

RESEARCH ENDEAVOURS OVERVIEW

- ★ Ph. D. Supervisor:03 students [01 Thesis submitted]
- ★ Patent:06 [Publications-05,1UK and 4 Indian patent, Submitted-01]
- ★ Seed Funding Research Projects:02
- ★ Journals Publication [National & International]: 22+
- ★ Conferences Presentations [National & International]: 9+
- ★ Book Chapters/Books Publication:05
- ★ Published Designs:01
- ★ Seminars & Conferences attended:57+
- ★ Professional Certification Courses:35+
- ★ Reviewerfor International Conferences and Journals
- ★ Keynote speaker/Session Chair
- ★ Professional Membership:CSI, ISTE, IEEE, GDSC Club

RECOGNITION AND MILESTONES

- ★ Academic Council member of Government Women's Polytechnic College Indore
- ★ BOS member of NMIMS University.
- ★ Academic Council member of NMIMS University.
- ★ MOUs with Infosys and TCS
- ★ Faculty selection board member-SGSITS Indore
- ★ Successful award of NBA Accreditation of EC Department of EC Department, SVITS Indore [was HOD of the department-2006]
- ★ Appointed through PSC for the post of HOD, EC in Govt. Polytechnic, Burhanpur MP
- ★ Appointed subject-expert for Selection Boards of various colleges
- ★ Appointed subject-expert for PG courses including M.Tech& MCA and M.Sc. by DAVV University
- ★ Successful approval of the M.Tech course in Embedded Systems & VLSI Design at SVITS, Indore [including approval of new scheme in board of studies of RGPV, Bhopal]
- ★ Advisor, Award winning College magazine HORIZON'05 at SVITS, Indore
- ★ Best paper presentation award in a National Conference, April 2002
- ★ Chief organizer award for UTKARSH 2004, 19-31 January 2004
- ★ Best Science model award at school level, St. Paul H. S. School 1998
- ★ AICTE funded ATAL FDP [Rs.93000/- funding]
- ★ MPCST funded various events like National Confrence, FDP, NMD, NSD etc.

PROFESSIONAL JOURNEY

December 2023 – Till Date	Director SAIT and Professor, ECE	Sri Aurobindo Institute of Technolog Indore, M.P.
March 2016 -December 2023	○ Associate Dean & Professor, EXTC 2017, Indore Campus ○ Associate Dean & Professor, EXTC 2016, Shirpur Campus	NMIMS, University Indore
November 2013– Feb 2016	Director SAIT and Professor, ECE	Sri Aurobindo Institute of Technolog Indore, M.P.
Oct. 2007- November 2013	○ Principaland Professor, 2009 ○ Associate Professor& HOD, ECE	Sanghvi Institute of Mgmt. & Science Indore, M.P.
Sep' 1996 – Sep. 2007	○ Assistant Professor (Reader) & HOD ECE August 2005 ○ Senior Lecturer August 2004 ○ Lecturer September 1996	Shri Vaishnav Institute of Tech. & Sc. Indore, M.P.
1994 – 1996	Customer Support Engineer (CSE)	Wipro Infotech Ltd. Indore, M.P.

ACADEMICCHART

Ph. D.	2012	I.E.T, Devi AhilyaVishva Vidyalaya, Indore, M.P.	○ "Optimization of Hybrid Techniques fo SCP in VLSI Design" ○ Supervisor-Dr. Ajay Verma, Prof. & Hea EI, IET, DAVV ○ Co- Supervisor -Dr. B. M. Singhi, Direct ATC, Indore

M. Tech	2005	Shri G.S. Institute of Technology & Science, Indore, M.P	○ M. Tech, Microelectronics & VLSI Design ○ 82.89 % Aggregate (Topper)
M.B.A.	1997	Shri Vaishnav Institute of Management, DAVV Indore, M.P.	○ M.B.A., Systems Management. ○ I Class, 63% Aggregate
B.E.	1994	Shri G.S. Institute of Technology & Science, Indore, M.P	○ B.E., Electronics & Telecommunication ○ I Class, 74.85% Aggregate
H.S.S.C.	1989	St. Paul H. Secondary School Indore, M.P.	○ H.S.S.C. (Higher Secondary School Certificate) ○ I Class, 73.4%
H.S.C.	1987	St. Paul H. Secondary School Indore, M.P.	○ H.S.C. (High School Certificate) ○ I Class, 72.3%

RESEARCH ACCOMPLISHMENT DETAILS: INTERNATIONAL &NATIONAL

PATENT PUBLICATION

1. Patent "An Iot Based Method of Remote Monitoring of Building Structures", published by Intellectual Property India Publication Date: 30-12-2022. application number 202241076020.
2. Patent "Context Aware Knowledge Delivery at Point of Care Using Biomedical NLP For Clinical Decision Support System" published by Intellectual Property India Publication Date 17/03/2023 Application Number 202341013447.
3. Guided students for patent Title: "A voice-based, multilingual inbound/outbound system and a method based on artificial intelligence for aiding and automating customer service" Publication Date: 11/11/2022 Intellectual Property India.
4. Patent "Iot Based Glucose Measuring and Monitoring Device" submitted on Intellectual Property India Submission Date:11-03-2023, Application Number 381291-001.
5. UK Design patent on "Smart Plastic Waste Management Machine" Design number: 6288182 by Intellectual Property Office UK Grant date: 15 June 2023.
6. Patent 202341078440 "A Construction Site Supervision System Based on Internet of Things and Block Chain" published by Intellectual Property India Publication Date: 29-12-2023.

BOOK/ BOOK CHAPTERS PUBLICATION

1. "Arduino Uno Notebook for Engineering Students" Walnut Publication (22 September 2023), ISBN-10 : 9359113123, ISBN-13 : 978-9359113128, https://www.walnutpublication.com/book/9789359113128/ https://www.amazon.in/dp/9359113123?ref_=cm_sw_r_apan_dp_0DHFF27HCA7E70ZJVA65&language=en-IN
2. "Ubiquitous Wearable Healthcare Monitoring System Architectural Design for Prevention, Detection, and Monitoring of Chronic Diseases" (pages 190-218) in the book "Pre-Screening Systems for Early Disease Prediction, Detection, and Prevention" Release Date: October, 2018|Copyright: © 2019 |Pages: 395 DOI: 10.4018/978-1-5225-7131-5 ISBN13: 9781522571315|ISBN10: 1522571310|EISBN13: 9781522571322 https://www.igi-global.com/book/pre-screening-systems-early-disease/203701
3. "Solar-Wind Energy Assessment by Big Data Analysis" in the book "Innovation in Energy Systems – New Technologies for Changing Paradigms" Intech open November 2019 978-1-78984-108-4 https://www.intechopen.com/books/8842
4. "Microprocessors and Interfacing." ISBN number 978-93-6132-431-4 Jan 2024 published by Scientific International Publishing Househttps://www.flipkart.com/product/p/itme?pid=9789361324314
5. "Embedded Systems and IoT" DOI: https://doi.org/10.59646/embedsysiot/115, Edition 1: January 2024, Published by San International Scientific Publications

RECENT JOURNAL PUBLICATIONS:

1. "Optimized Reversible Logic Multiplexer Designs for Energy-Efficient Nanoscale Computing" (ID:4367) Journal of Electrical Engineering and Informatics (IJEEI), ISSN 2089-3272, a Scopus-indexed journal. https://www.researchgate.net/publication/374005146_Optimized_Reversible_Logic_Multiplexer_Designs_for_Energy-_Efficient_Nanoscale_Computing
2. "Context Aware knowledge discovery for Clinical Support using Transfer Learning" accepted in BMC Medical Informatics and Decision Making, ABDC-B, SCOPUS Science Citation Index Expanded (SCIE) 05th July 2023.
3. "Diagnostics based Patient Classification for Clinical Decision Support Systems" Journal of Automation, Mobile Robotics and Intelligent Systems. (Accepted and Under Publication) Scopus
4. "Context Parameters Retrieval Framework from Electronic Healthcare Record through Biomedical NLP for Clinical Support", Int. J. of Intelligent Engineering Informatics. ISSN online 1758-8723 ISSN print 1758-8715 Inder science Publishers ESCI Journal April 2023 https://www.inderscienceonline.com/doi/10.1504/IJIEI.2023.130709
5. "An architectural design study of electronic healthcare record systems with associated context parameters on MIMIC III" Health and Technology journal Springer Nature (ESCI) Scopus3.0 Feb 2021 , Volume 12 Issue 2 Pages 313-327https://link.springer.com/article/10.1007/s12553-022-00638-x
6. "Nano sensor and Actuator Technologies for Wearable Mobile Patient Monitoring Systems: A Review" Computational Mathematics, Nanoelectronics, and Astrophysics 978-981-15-9708-4 Pages 83-95 March 2021) Scopus Springer Nature https://link.springer.com/chapter/10.1007/978-981-15-9708-4_7
7. "A Review of Low Energy Adaptive Clustering Hierarchy (LEACH) Protocol for Effective Power Dissipation in Wireless Sensor Nodes" NMIMS Engineering and Technology Review Volume II Issue 1 Pg no 40-46 January 2020 http://etr-journal.nmims.edu/wp-content/uploads/2020/02/ETR-Vol-2-issue-1-40-46.pdf
8. "Design and assessment of solar powered electric vehicle" International Transaction on Electrical Energy System) Scopus indexed Willey Publications Oct 2019 https://www.researchgate.net/publication/338216181_Design_and_assessment_of_solar-powered_electric_vehicle_by_different_techniques
9. "Software Product Lines for Mobile Patient Monitoring Systems using foda A Grammar" in Biochemistry: An Indian Journal Impact Factor 0.11, ISSN No. 0974-7427 Volume 11, Issue 2, Pages 1-8, 2017. https://www.tsijournals.com/journals/archive/tsbc-volume-11-issue-2-year-2017.html
10. "Comparison of HNN and GA Based Hybrid Algorithm for Standard Cell Placement in VLSI Design" published in International Journal of Electrical & Electronics Research (IJEER) ISSN No. (online): 2347-470X Volume 3, Issue 3, Pages 35-39, September 2016, indexed in Scopushttps://ijeer.forexjournal.co.in/papers-pdf/ijeer-040307.pdf
11. "A Total Quality Management Approach In Teaching And Learning Process" published in International Journal of management (IJM) ISSN No. (online): 0976-6510, ISSN no (Print):0976-6502 Impact Factor:8.1920 Volume:7 issue:5 August 2016 pp 223-227Scopus https://iaeme.com/MasterAdmin/Journal_uploads/IJM/VOLUME_7_ISSUE_5/IJM_07_05_021.pdf
12. "Performance Evaluation and Comparison of GA, SA & LSA Based Algorithms for Standard Cell Placement in VLSI Design" published in International Journal of Engineering, Business, and Enterprise Applications (IJEBEA) ISSN No (On line): 2279-0039 Impact Factor : 6.32 Volume : 1, Issue : 16 May 2016 pp 41-45 http://iasir.net/IJEBEApapers/IJEBEA16-137.pdf
13. "Comparative Analysis GA Based Hybrid Algorithms for Standard Cell Placement in VLSI Design" published in International Journal of Science Technology and Engineering ISSN No (On line): 2349 784X Impact Factor :3.905, Volume : 2, Issue : 10 May 2016 pp 899-903 http://ijste.org/Article.php?manuscript=IJSTEV2I10276
14. "Simulated Annealing Algorithm for Standard Cell Placement in VLSI Design", published in International Journal of Computer Applications (0975 – 8887) Volume 87 – No 1, February 2014, pp. 23-26 https://www.ijcaonline.org/archives/volume87/number1/15172-3047
15. "Wireless Sensor Network application to Centralize the Water Tanks Filling & Monitoring System of Indore City", International Journal of Innovative Research in Electrical, Electronics, Instrumentation And Control Engineering, Vol. 2, Issue 1, January 2014, pp. 557-561 https://ijireeice.com/wp-content/uploads/2013/03/IJIREEICE2A__s_nilesh__wireless_sensor.pdf

16. "Multi-Objective Optimization of Standard Cell Placement using Memetic Algorithm" published in International Journal of Computer Application", USA, Vol.19 No.7, April 2011, pp 31-34. https://www.ijcaonline.org/volume19/number7/pxc3873122.pdf
17. "Performance Enhancement of Standard Cell Placement Techniques Using Memetic Algortihm", published in International Journal of Computer Application", USA special issue on Evolutionary Computation for Optimization Techniques, 2010, pp 83-86. https://www.ijcaonline.org/specialissues/ecot/number2/1535-138
18. "Standard Cell Placement using Iterative & Constructive Heuristics for Multi-Objective Optimization", published in International Journal of Electronics Engineering, 2(1), 2010, pp. 131-135. https://www.researchgate.net/publication/228971782_Standard_Cell_Placement_using_Iterative_Constructive_Heuristics_for_Multi-Objective_Optimization
19. "Enhanced Local Search Techniques for standard cell placement in VLSI Design", International Joint Journal Conferences in Engineering 2009 [Virtual Conference and International Journal], Organized by Association of Computer, Electronics, Electrical Engineers [ACEEE].
20. "A Solution to Combinatorial Optimization Problem using Memetic Algorithms", published in International Journal of Computer Science and Application Dec.2008, pp 164-1671 https://www.researchgate.net/publication/228954647_A_Solution_to_combinatorial_Optimization_Problem_using_Memetic_Algorithms
21. "Is Machine Learning a game-changer for Healthcare?" Annual magazine "The Svelte Vista" 2018-19.
22. " Prospective Healthcare in Digital India with transforming Information and Communication Technologies" in CSI Communications ISSN No. 0970-647X Volume-41 Issue-05 pp:12-14 Aug 2017, https://docplayer.net/104060482-Knowledge-digest-for-it-community.html

INTERNATIONAL & NATIONAL CONFERENCES PRESENTATIONS

1. "Diagnostics based multiclass patient classification model using Deep Learning Neural Network" has been presented in 8th International Conference on Business Analytics and Intelligence (ICBAI), held in December 20-22, 2021 organized by IIM and IISC Bangalore.
2. "Nanosensor And Actuator Technologies for Mobile Patient Monitoring Systems: A Review" Paper presented in International Conference on Computational Mathematics in Nanoelectronics and Astrophysics (CMNA 2018) held at IIT Indore, India during November 1-3, 2018 and and will be published online in the Springer Proceedings
3. "Software Product Lines for Mobile Patient Monitoring Systems using fodaA Grammar" in International Conference on Artificial Intelligence in Health Care at MPSTME, NMIMS, Shirpur campus, 27-28 Dec 2016.
4. "Multilevel Authentication for Resource Allotment in MANET", CSIBIG2014, accepted for publication in Conference on IT in Business, Industry & Govt., 08-09 March 2014
5. "Optimization of Hybrid and Local Search Algorithms for Standard Cell Placement in VLSI Design" published in International Conference on Advances in Recent Technologies in Communication and Computing, ARTCom 2009 27-28 October, 2009, Kottayam, Kerala pp. 826-828. [Indexed on IEEExplore and listed on CSDL, IEEE also].
6. "Comparative Analysis of Heuristic, Hybrid and Local Search Algorithms for Standard Cell Placement in VLSI Design", published in CICSYN 2009, IEEE International Conference on Computational Intelligence, Communication Systems and Networks, 23-25 July 2009.
7. "Performance Evaluation and Comparison and Improvement of Standard Cell Placement in VLSI Design", International Conference on Emerging Trends in Engineering and Technology, July 2008 [also published on CSDL, IEEE and IEEExplore]
8. "Multi-objective Optimization of SCP using Iterative & Constructive Heuristics for High Speed, Low Power and Minimum Interconnect Wire-Length", BVS-2009, 1-3 December, 2009
9. "Local Search Techniques for standard cell placement in VLSI Design" accepted for publication and presentation in National Conference on "Computational Optimization & Application for Real World " on 07-08, Nov 2008 at the HIMCS, Farah, Mathura.

PUBLISHED DESIGNS

1. "Priority Indicator for Quiz Contests", A. Bunglowala, Electronics for You (EFY), September 2002.

SEED FUNDING PROJECTS

1. Development of Product Line Architecture Models for Mobile Patient Monitoring Systems [Rs.1 lakh/-]
2. Implementation of tracking system based solar energy operated E-Rickshaw [Rs.1 lakh/-]

SEMINARS & CONFERENCES ATTENDED

1. Latest Trends in IT, ISTE Convention at GEC, Jabalpur 11-12 Feb. 2009.
2. COMPUTING 2001, CSI, Indore Chapter, 2001.
3. COMPUTING 2002, CSI, Indore Chapter, 2002.
4. STTP (one week) on VLSI Subsys. Design by MNIT, Jaipur 22-26 Sep. 2003
5. National Convention of ISTE, IPS Academy.
6. National Conference ETWOM organized by SGSITS
7. STTP (2 weeks) on LM Development for Tech. Education 16-28 May 2005
8. UGC-STTP (3 weeks) on Stochastic Modeling and Proc., DAVV June 2006
9. STTP (1 week) Design of Emb. System at IIT, Kharagpur 19-24 June 2006
10. Workshop (3 day) on Recent Trends in VLSI Design, SGSITS 24-26 May 07
11. Workshop (3 day) on Current Trends in Nanotechnology, SGSITS
12. STTP (one week) VLSI Signal Processing at IIT, Kharagpur, 29/11-4/12 07
13. International Conference ICAC at Chikli, MS, 21-22 February 2008
14. International Conference ICETET, Nagpur July '08
15. International Seminar on Washington Accord 6-7 Jan '11
16. Organizing IEEE Conferences, IEEE MP-Subsection, Indore 30-31 Aug.14
17. Adv. course in Telecomm Tech. by SciTech Tech. Pvt. Ltd 15-20 Dec.03
18. Workshop on CMOS VLSI Tech. by ni2 & Micro wind, France 19Dec. 2004
19. Workshop on OrCAD at SVITS by India soft Tech. Pvt. Ltd. January 2005
20. AICTE Sponsored seminar on "Communication & VLSI" 21-22 Aug.2006
21. 2 days workshop on ARM-Microcontroller at SVITS 15-16 Sep. 2006
22. Workshop on "Institution Building-Creating Institute of Excellence" at IIT Delhi, 12-15 Jan.2012
23. Course work on "Instructional Excellence in Intelligent Systems under Inter college Excellence Program, 17-19 Oct. 2014
24. Two days National Conference on Recent Advances in Basic Sciences-II in Christian Eminent College, Indore. 2016
25. Two days International IEEE conference on ICT in business, Industry and Government in SAIT Indore, 18-19 Nov 2016.
26. Organizing two days International Conference on Artificial Intelligence in Health Care at MPSTME, NMIMS, Shirpur campus, 27-28 Dec 2016.
27. Guest lecture at SGSITS, Indore on "Optimization of Hybrid Techniques for Standard Cell Placement in VLSI Design" 20 Jan 2017
28. Organizing one day National Conference on Emerging trends and practices in Science, Humanities & management: Professional Education Perspective ETPSHM'17 18 Feb 2017.
29. One day TEDx conference on "Make a Difference in & out" in NMIMS, Shirpur campus, 5 Mar 2017.
30. One day National workshop on "Quality Technical education in DAVV Indore, 9 June 2017.
31. Seminar on `Global Perspectives on Leadership Development' 08/01/2019 NMIMS, University, Mumbai NMIMS, University, Mumbai
32. IMA Conclave 18/01/2019-19/01/2019 Abhay Parshall, Indore Indore Management Association
33. Faculty Development Program 13.12.2019 TCS Indore.
34. Lean Thinking for Sustainable Business Practices 16.08.20 to 20.08.21 Online ATAL FDP
35. Design Thinking: Concept | Application |Implementation 14/6/21 to 18/6/21 Online AKGM, Ghaziabad

36. Data Analytics (Using Python) 06 Jan 2020 to 12 Jan 2020 STME, NMIMS, Indore STME, NMIMS, Indore and Suven Consultants & Technology Pvt ltd., Mumbai
37. Engineering Education & the Industry: A Post COVID-19 Perspective 1/6/20 to 5/6/20 Online Rajiv Gandhi Institute of Technology, Mumbai
38. One week FDP on 'Python Programming' 28th April - 03rd May 2020. Online Spoken Tutorial IIT Bombay and JSPM's RSCOE, Pune
39. Two days FDP on Google Apps 29th-30th May 2020 Online Christ College of Science and Management, Malur
40. 05 days short term course on VHDL 28/01/2019-01/02/2019 NITTR, Chandigarh.
41. FDP on Assessment in Engineering Education 03.07.2021 to 04.07.2021 and 10.07.2021 Online MPSTME, NMIMS Mumbai
42. NEP2020: Reimaging higher education-Implications and Challenges 19.06.2021 Online IET, DAVV
43. Applications of Statistical Methods for Research in Management and Behavioral Sciences: Hands-on Training using R 11.06.2021 to 13.06.2021. Online Navi Mumbai NMIMS.
44. Attended MP Startup Conclave 2022 on May 13, 2022 at Brilliant Convention Centre, Indore, organized by Department of MSME, Govt. of Madhya Pradesh and Federation of Indian Chambers of Commerce and Industry
45. Seminar on 'Critical Thinking' 21.08.202 Online MPSTME, NMIMS Mumbai
46. Short Term Course on “Advancements in Microelectronics and VLSI design” 16/03/2019. SGSITS, Indore Expert Speaker.
47. One Week Short Term Training Program (STTP) 02.12.2020 Online Platform Lakshmi Narain College of Technology (LNCT), Bhopal. Expert lecture delivered on “Advancements of VLSI” Keynote speaker.
48. International E-Conference on “Post Covid-19 Strategies for Ecosystem & Entrepreneurship” 8-9 Jan 2021 Online SBM, NMIMS Deemed to be University, Indore Campus Session Chair.
49. East India Career Summit 2021 22.01.2021 Online O.P Jindal Global University. Panelist.
50. Organized AICTE Sponsored ATAL FDP on Internet of things: concepts and implementations 13 to 17 December as Coordinator with funding of Rs. 93000/-.
51. Organized FDP on, Bringing It Together, Start-up and funding opportunities in IoT-Expert Session 17.12.2021 as Expert Speaker.
52. Conducted webinar on "Career Opportunities & Skill Sets for aspiring Computer Engineering students" dated May 25, 2022 in Online mode organized by STME NMIMS Indore in collaboration with College Duniya as an Expert Speaker
53. Conducted webinar on “Paradigm Shift in Computer Engineering” Tagline: Why pursue Engineering at NMIMS Indore on 5th July 20222 as Expert Speaker.
54. Organized The Career Guidance Seminar on 28.02.2022 in collaboration with Unacademy as Coordinator.
55. Organized Seminar on Human Learning Before Machine Learning on 06.01.2022 by Mr. Deepesh Wadhwani, Director at Sophos Knowledge Services. As Coordinator.
56. Organized a Panel Discussion on “When Psychology meets Technology: How Tech is improving Mental Health” on 29th July 2022. Experts for the Webinar are Dr. Madhavi Dabholkar, Psychologist & Counsellor and Mr. Amitabh Tiwari, Center Head TCS Indore, Bhopal, Lucknow as Moderator.
57. In collaboration with the Taleem-O-Tarbiyat is organized Seminar on “Education to Entrepreneurship Program " Chief Guest: Mr. Arbaaz Khan, Actor, Film Producer and Film Director on 27th July 2022 as Coordinator
58. Webinar Topic: Technical Proficiency and Effective Management in today's dynamic environment- Be a Technocrat with MBA Tech at NMIMS Indore, Date: 30.06.2023 at NMIMS Indore as Expert Speaker.

PROFESSIONAL AFFILIATIONS AND POSITIONS

- ★ Senior Member of IEEE – Membership No.-80298955
- ★ Life Member of ISTE – Membership No.-LM-38964
- ★ Treasurer of CSI Indore Chapter in the year 2001
- ★ Secretary of CSI Indore Chapter in the year 2002
- ★ Branch Counselor, IEEE Students Branch, SVITS, Indore

- ★ Faculty Coordinator of Meta Developer Circle
- ★ Faculty Coordinator of Google Developer Student Club.
- ★ MSME Incubation Centre Nodal Officer NMIMS Indore

PROFESSIONAL CERTIFICATIONS

COURSERA PLATFORM

1. Google Data Analytics Certified
2. Design Thinking for Innovation
3. Machine learning: Classification
4. "Analyze Data to Answer Questions!" on Coursera platform on 16th May 2022 offered by Google.,
5. "Process Data from Dirty to Clean!" on Coursera Platform on 10th May 2022 offered by Google.
6. Foundations: Data, Data, everywhere!
7. Ask Questions to Make Data-Driven Decisions!
8. Data Analysis with R Programming!
9. Share Data Through the Art of Visualization!
10. Data Analysis with R Programming
11. Google Data Analytics Capstone: Complete a Case Study
12. Business English: Marketing and Sales
13. Business English: Management and Leadership
14. Learning to Teach Online
15. Performance Assessment in the Virtual Classroom
16. Introduction to the Internet of Things and Embedded Systems
17. 04 weeks course: Introduction and Programming with IoT Boards
18. The Arduino Platform and C Programming
19. Introduction to Python Programming
20. Python Data Structure
21. Programming for Everybody (Getting Started with Python)
22. Matlab Programming for Numerical Computation

LINKEDIN LEARNING PLATFORM.

23. Artificial Intelligence Foundations: Machine Learning
24. Transitioning from waterfall to Agile Project Management
25. Critical Thinking
26. "Improving Your Thinking"
27. Negotiation Skills
28. Developing a Critical Thinking Mindset
29. Thinking, Fast and Slow (Blinkist Summary)
30. "Critical Thinking for Better Judgment and Decision-Making",
31. Excel data Visualization: Mastering 20+ charts and graphs"
32. "Excel Essential Training (Office 365/Microsoft 365)",
33. "Excel: VLOOKUP and XLOOKUP for Beginners",
34. "Excel: PivotTables for Beginners"
35. Excel data Visualization: Mastering 20+ charts and graphs"
36. "Excel: Introduction to VBA" on Feb 28, 2022,
37. Excel: Introduction to Charts and Graphs

UDEMY

38. Online course on Arduino Workshop 05.12.2019, Online platform Udemy

CURATED AND MANAGED EVENTS

	★ Workshops [React, Blockchain, Flutter App. Development for Android and IOS, Agile & Scrum, Ethical Hacking, Cyber Security, Data Analytics, Python, JAVA, OOPs, C++ Etc.], MPCST funded One Week National Level Workshop "Grant Writing, IPR(Intellectual Property Rights) and Publication Strategy" ★ E Summit [Dr. Niranjan Hiranandani (Co-Founder, and Managing Director, at Hiranandani Group) Mr. SnehalDesaI (Vice President, Adani Group) Mr. Raj Shamani (Founder: Shamani Industries) etc.] ★ TedX [Mr. Ankit Agrawal, Founder of Dare2compete, Mr. Manish Tyagi Stand-up Comic, MS. Divya Rathod, Founder of Silvery Nanos, MS. Nikita Sharma, Fitness Enthusiast, Mr. NihadPanju A Meningitis Survivor Ms. Vani Kabir The Modern Sufi etc.] ★ Sunday Tech Series [Experts from McKinsey, USA, Google USA, Microsoft, Sony, Mastercard etc.] ★ Expert Sessions [To Name a few: Mr. Anshu Gupta, Goonj, Dr. K. Arvind RSA Security, Boston, USA, Mr. Vineet Seth, Managing Director – South Asia & Middle East, Delcam Ltd., UK, Ms. Anu Aga, Mr. Suresh Prabhu, Dr. JanakPaltaMcGilligan Padma Shri] ★ Faculty development Programs [IoT, Rubrics for Evaluation, Data Analytics, Python, Java, Teaching and Learning Process, Latex Etc.], National FDP on Grant Writing, IPR, and Publication Strategies ★ International/National Conferences: To name a few: o IEEE Conferences, IEEE MP-Subsection, Indore 30-31 Aug.14, o International IEEE conference on ICT in business, Industry and Government in SAIT Indore o International Conference on Artificial Intelligence in Health Care at MPSTME, NMIMS, Shirpur campus, 27-28 Dec 2016., o National Conference on Emerging trends and practices in Science, Humanities & management: Professional Education Perspective ETPSHM'17 18 Feb 2017 MPSTME, NMIMS, Shirpur o Students' Conference on Emerging Trends in Techno-Management System on 15 Feb 2020 STME, NMIMS, Indore o National Conference on Emerging Trends In Techno-Management System on 10th April 2021 STME, NMIMS, Indore o International Conference on Recent Paradigm in Computer Science and Engineering (ICRPCSE-2022) 9-10 September-2022 STME, NMIMS, Indore ★ Hackathons and Datathons ★ Tech Fests ★ MSME Incubation Center ★ Zenith Diplomacy Summit [MUN] ★ AICTE Funded ATAL FDP [Rs.930000/- funding] ★ Marathons ★ Blood Donation camps ★ Industrial Visits ★ Newsletters ★ Open Houses ★ MPCST Funded National Mathematics Day ★ MPCST Funded National Science Day	
9.	**Fee : As per Government Norms**	
	No. of Fee waivers granted with amount and name of students	<u>Comp. Sci. & Engg. :</u> 1. Rajesh Dangi 2. Ravi 3. Vaibhav Chouhan 4. Sumit Seni

<table>
<tr><td></td><td></td><td>5. Ayan Ansari
6. Dhanshree Sathone
7. Mo. Safdar Ansari
8. Shivam Dwivedi
9. Akshat Upadhyay
10. Vedansh Choube
11. Makhan Mishra
Computer Sci. & Engg. (AIML)
12. Mohammad Saad Ansari
13. Kush Dhote
14. Arnav Khatwa</td></tr>
<tr><td></td><td>Number of scholarship offered by the Institution, duration and amount</td><td>N.A.</td></tr>
<tr><td></td><td colspan="2"><table>
<tr><th>Course</th><th>Branch</th><th>Student's name</th><th>Admission session</th><th>Amount</th></tr>
<tr><td></td><td></td><td></td><td></td><td></td></tr>
</table></td></tr>
<tr><td></td><td>i. Number of scholarship offered by the Institution, duration and amount</td><td>Not Applicable (State Government Provide Scholarship as per norms)</td></tr>
<tr><td>10.</td><td>Admission</td><td></td></tr>
<tr><td></td><td>• Number of seats sanctioned with the year of approval</td><td><table>
<tr><th>2023-24</th><th>2024-25</th><th>2025-26</th></tr>
<tr><td>696</td><td>696</td><td>636</td></tr>
</table></td></tr>
<tr><td></td><td>• Number of Students admitted under various categories each year in the last three years</td><td><table>
<tr><th>Year</th><th>SC</th><th>ST</th><th>OBC</th><th>GEN</th></tr>
<tr><td>2023-24</td><td>41</td><td>5</td><td>171</td><td>184</td></tr>
<tr><td>2024-25</td><td>45</td><td>10</td><td>190</td><td>138</td></tr>
<tr><td>2025-26</td><td>55</td><td>11</td><td>218</td><td>152</td></tr>
</table></td></tr>
<tr><td></td><td>• Number of applications received during last years for admission under Management Quota and number admitted</td><td>Not Applicable.</td></tr>
<tr><td>11.</td><td>Admission Procedure</td><td></td></tr>
<tr><td></td><td>• Mention the admission test being followed, name and address of the Test Agency/State Admission Authorities and its URL (website)</td><td>Not Applicable</td></tr>
<tr><td></td><td>• Number of seats allotted to different Test Qualified candidate separately (AIEEE/ JEE/CET (State conducted test/ University tests/ CMAT)/ Association conducted test etc.)</td><td>JEE
National Testing Agency,
Ministry of Human Resource Development,
Govt. of India.
https://jeemain.nic.in/webinfo/Public/Home.aspx</td></tr>
</table>

	• Calendar for admission against Management quota seats:	College Level Counselling
	• Last date of request for applications	15.09.2025
	• Last date of submission of applications	15.09.2025
	• Dates for announcing final results	15.09.2025
	• Release of admission list (main list and waiting list shall be announced on the same day)	15.09.2025
	• Date for acceptance by the candidate (time given shall in no case be less than 15 days)	15.09.2025
	• Last date for closing of admission	15.09.2025
	• Starting of the Academic session	11th September 2024
	• The waiting list shall be activated only on the expiry of date of main list	Not Applicable
	• The policy of refund of the fee, in case of withdrawal, shall be clearly notified	As per Admission & Fee Regulatory Committee, Govt. of Madhya Pradesh (State Govt.) Norms
12.	**Criteria and Weightages for Admission**	
	• Describe each criterion with its respective weightages i.e. Admission Test, marks in qualifying examination etc.	JEE and Qualifying Examination
	• Mention the minimum level of acceptance, if any	As per Directorate of Technical Education, Bhopal Govt. of Madhya Pradesh (State Govt.) Norms
	• Mention the cut-off levels of percentage and percentile score of the candidates in the admission test for the last three years	Not Applicable
	• Display marks scored in Test etc. and in aggregate for all candidates who were admitted	Not Applicable
13.	**List of Applicants**	
	• List of candidate whose applications have been received along with percentile/ percentage score for each of the qualifying examination in separate categories for open seats. List of candidate who have applied along with percentage and percentile score for Management quota seats (merit wise)	Not Applicable
14.	**Results of Admission Under Management seats/ Vacant seats**	Not Applicable

	• Composition of selection team for admission under Management Quota	Not Applicable
	• List of candidate who have been offered admission	Not Applicable
	• Waiting list of the candidate in order of merit to be operative from the last date of joining of the first list candidate	Not Applicable
15.	**Information of Infrastructure and Other Resources Available**	
	• Number of Class Rooms and size of each	Total No. of Classrooms = 36 Size of each classrooms = 99.43 sqr.mtr.
	• Number of Tutorial rooms and size of each	Total No. of Tutorial rooms = 11 Size of each Tutorial rooms = 50.66 sqr.mtr.
	• Number of Laboratories and size of each	Total No. of Laboratory = 46 Size of each Laboratory = 84.44 sqr.mtr.
	• Number of Drawing Halls with capacity of each	Total No. of Drawing Hall = 1 Size of Drawing Hall = 146.39 sqr.mtr.
	• Number of Computer Centers with capacity of each	Total No. of Computer Center = 1 Size of each Computer Center = 172.27 sqr.mtr.
	• Central Examination Facility, Number of rooms and capacity of each	Exam Control Office = 1 Size of exam room = 132.24 sqr. mtr.
	• Online examination facility (Number of Nodes, Internet bandwidth etc.)	Available
	• Barrier Free Built Environment for disabled and elderly persons	Yes
	• Fire and Safety Certificate	Yes
	• Hostel Facilities	No
	• **Library**	Yes
	• Number of Library books/ Titles/ Journals available (program-wise)	Number of Library books = 27762 vols. Number of Titles = 12677 nos. E-Books = 7245 nos. Journals available = RGPV E-library Subscription
	• List of online National/ International Journals subscribed	

S.No.	Computer Science Journals	
1	Advanced Computing : an International Journal	
2	Advances in Artificial Intelligence	
3	Advances in Electrical and Computer Engineering	
4	Advances in Human-Computer Interaction	
5	Advances in Internet of Things	

		6	Advances in Multimedia	
		7	Advances in Software Engineering	
		8	The African Journal of Information Systems	
		9	Ajis : Australasian Journal of Information Systems	
		10	Applied Computational Intelligence and Soft Computing	
		11	Brain. Broad Research in Artificial Intelligence and Neuroscience	
		12	British Journal of Mathematics & Computer Science	
		13	Communications and Network	
		14	Computational Intelligence and Neuroscience	
		15	Computer and Information Science	
		16	Computer Science and Information Systems	
		17	Crosstalk : Journal of Defense Software Engineering	
		18	Database : the Journal of Biological Databases and Curation	
		19	Database Systems Journal	
		20	Digital Culture & Education	
		21	e-Informatica Software Engineering Journal	
		22	E-learning and Education	
		23	Economy Informatics	
		24	Electronic Communications of the EASST	
		25	Electronic Journal of Information Systems Evaluation	
		26	Engineering Letters	
		27	EURASIP Journal on Information Security	
		28	First Monday	
		29	Future Internet	
		30	Game Studies	
		31	Human Technology	
		32	IAENG International Journal of Computer Science	
		33	Indian Journal of Computer Science and Engineering	
		34	Information Technologies and International Development	
		35	Information Technology Journal	
		36	Intelligent Control and Automation	
		37	Intelligent Information Management	
		38	Interdisciplinary Journal of Information, Knowledge, and Management	
		39	International Arab Journal of e-Technology	
		40	The International Arab Journal of Information Technology	
		41	International Journal of Ad Hoc, Sensor & Ubiquitous Computing	
		42	International Journal of Advanced Computer Sciences and Applications	

	43	International Journal of Advanced Information Technology	
	44	International Journal of Advanced Networking and Applications	
	45	International Journal of Advances in Soft Computing and Its Applications	
	46	International Journal of Artificial Intelligence & Applications	
	47	International Journal of Communication Networks and Information Security	
	48	International Journal of Computer Games Technology	
	49	International Journal of Computer Networks & Communications	
	50	International Journal of Computer Science & Applications	
	51	International Journal of Computer Science & Information Technology	
	52	International Journal of Computer Science and Communication Networks	
	53	International Journal of Computer Science and Engineering Survey	
	54	International Journal of Computer Science and Information Technologies	
	55	International Journal of Computer Science and Management Studies	
	56	International Journal of Computer Science Issues	
	57	International Journal of Computer Science, Engineering and Applications (IJCSEA)	
	58	International Journal of Computer Technology and Applications	
	59	International Journal of Database Management Systems	
	60	International Journal of Distributed and Parallel Systems	
	61	International Journal of Distributed Sensor Networks	
	62	International Journal of Doctoral Studies	
	63	International Journal of Education and Development using Information and Communication Technology	
	64	International Journal of Engineering Science and Technology	
	65	International Journal of Enterprise Computing and Business Systems	
	66	International Journal of Future Generation Communication and Networking	
	67	International Journal of Grid and Distributed Computing	
	68	International Journal of Hybrid Information Technology	
	69	International Journal of Image, Graphics and Signal Processing	
	70	International Journal of Information Engineering and Electronic Business	
	71	International Journal of Information Technology and Computer Science	
	72	International Journal of Information Technology Convergence and Services (IJITCS)	
	73	International Journal of Intelligent Systems and Applications	
	74	International Journal of Managing Information Technology	
	75	International Journal of Modern Education and Computer Science	
	76	International Journal of Modern Education and Computer Science	
	77	International Journal of Multimedia & Its Applications	
	78	International Journal of Multimedia and Ubiquitous Engineering	

		79	International Journal of Network Security	
		80	International Journal of Network Security & Its Applications	
		81	International Journal of Next-Generation Networks	
		82	International Journal of Public Information Systems	
		83	International Journal of Reconfigurable Computing	
		84	International Journal of Signal and Image Processing	
		85	International Journal of Signal Processing, Image Processing and Pattern Recognition	
		86	International Journal of Simulation : Systems, Science and Technology	
		87	International Journal of Smart Home	
		88	International Journal of Software Engineering & Applications	
		89	International Journal of Software Engineering and Its Applications	
		90	International Journal of u- and e- Service, Science and Technology	
		91	International Journal of UbiComp	
		92	International Journal of VLSI Design & Communication Systems	
		93	International Journal of Web & Semantic Technology	
		94	International Journal of Wireless & Mobile Networks	
		95	International Journal on Applications of Graph Theory in Wireless ad hoc Networks and Sensor Networks	
		96	International Journal on Computer Science and Engineering	
		97	International Journal on Electrical Engineering and Informatics	
		98	International Journal on Smart Sensing and Intelligent Systems	
		99	International Journal on Soft Computing	
		100	Internetworking Indonesia Journal	
		101	Journal of Artificial Intelligence	
		102	The Journal of Artificial Intelligence Research	
		103	Journal of Community Informatics	
		104	Journal of Machine Learning Research	
		105	Journal of Software Engineering and Applications	
		106	Journal of Systemics, Cybernetics and Informatics	
		107	Journal of Theoretical and Applied Electronic Commerce Research	
		108	Journal of Theoretical and Applied Information Technology	
		109	Scientific Annals of Computer Science	
		110	Signal & Image Processing	
		111	Systems, Signs & Actions	
		112	Theory and Applications of Mathematics & Computer Science	
		113	Transactions on Data Privacy	
		114	Wireless Sensor Network	

S.No.	Electronics & Communication Engineering Journals
1	American Journal of Electronics & Communication
2	American Journal of Embedded Systems and Application
3	EURASIP Journal on Embedded System
4	International Journal of Advanced Research in Electronics and Communication Engineering
5	International Journal of Circuits , System and Signal Processing
6	International Journal of Communication and Computer Technologies
7	International Journal of Computer and Communication Engineering
8	International Journal of Electrical and Electronic Engineering & Telecommunication
9	International Journal of Electrical, Electronics and Data Communication(IJEEDC)
10	International Journal of Electronics and Communication Engineering and Technology (IJECET)
11	International Journal of Electronics and Telecommunications
12	International Journal of Engineering Research in Electronics and Communication Engineering
13	International Journal of Modern Electronics and Communication Engineering
14	International Journal of VLSI Design & Communication Systems (VLSICS)
15	International Journal of Wireless & Mobile Network (IJWMN)
16	IOSR Journal of Electronics and Communication Engineering(IOSR-JECE)
17	Journal of Electronics and Communication Engineering Research
S.No.	**Mechanical Engineering Journals**
1	Advances in Mechanical Engineering
2	Advances in Tribology
3	American Journal of Mechanical Engineering
4	American Journal of Mechanical Engineering and Automation
5	Electronic Journal of Boundary Elements
6	International Journal of Aerospace and Mechanical Engineering
7	International Journal of Applied Research in Mechanical Engineering(IJARME)
8	International Journal of Mechanical Engineering and Applications
9	International Journal of Mechanical Engineering and Robotics Research
10	International Journal of Research in Mechanical Engineering
11	International Journal of Research in Mechanical Engineering and Technology(IJRMET)
12	IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)
13	ISRN Mechanical Engineering
14	Jordan Journal of Mechanical and Industrial Engineering
15	Journal of Applied Fluid Mechanics
16	Journal of Computational and Applied Mechanics
17	Journal of Fundamentals of Renewable Energy and Applications
18	Journal of Mechanical Engineering and Technology

	19	Journal of Naval Architecture and Marine Engineering	
	20	Journal of Robotics	
	21	Mechanical Engineering Research	
	22	Modern Mechanical Engineering	
	23	Periodica Polytechnica Mechanical Engineering	
	24	The Open Mechanical Engineering Journal	
	25	Thermal Science	
	S.No.	**Electrical & Electronics Engineering Journals**	
	1	Active and Passive Electronic Components	
	2	Advances in Electrical and Electronic Engineering	
	3	Advances in Fuzzy Systems	
	4	Advances in Power Electronics	
	5	Bulletin of the Institute of Heat Engineering	
	6	Circuits and Systems	
	7	Energy and Power Engineering	
	8	ETRI Journal	
	9	EURASIP Journal on Advances in Signal Processing	
	10	EURASIP Journal on Bioinformatics and Systems Biology	
	11	EURASIP Journal on Embedded Systems	
	12	International Journal of Antennas and Propagation	
	13	International Journal of Design, Analysis and Tools for Integrated Circuits and Systems	
	14	International Journal of Microwave Science and Technology	
	15	International Journal of Vehicular Technology	
	16	Journal of Electrical and Electronics Engineering	
	17	Journal of Electrical Systems	
	18	Journal of Low Power Electronics and Applications	
	19	Journal of Power Technologies	
	20	Journal of Sensor Technology	
	21	Journal of Signal and Information Processing	
	22	Majlesi Journal of Electrical Engineering	
	23	Micromachines	
	24	Nuclear Technology and Radiation Protection	
	25	Open Electrical & Electronic Engineering Journal	
	26	Open Signal Processing Journal	
	27	Science and Technology of Nuclear Installations	
	28	Turkish Journal of Electrical Engineering and Computer Sciences	
	29	VLSI Design	

30	Wireless Engineering and Technology	
S.No.	**Civil Engineering Journals**	
1	Advances in Civil Engineering	
2	Advances in Materials Physics and Chemistry	
3	Advances in Materials Science and Engineering	
4	Advances in OptoElectronics	
5	American Journal of Engineering and Applied Sciences	
6	Applied Computational Intelligence and Soft Computing	
7	Bulletin of Materials Science	
8	Carbon : Science and Technology	
9	Civil Engineering Dimension	
10	Indian Journal of Engineering & Materials Sciences	
11	International Journal of Rotating Machinery	
12	ISRN Civil Engineering	
13	ISRN Materials Science	
14	Journal of Biological Engineering	
15	ARPN Journal of Engineering and Applied Sciences	
16	Journal of Nanomaterials	
17	Journal of Technology and Science Education	
18	Materials	
19	Materials Research	
20	Materials Sciences and Applications	
21	Mathematical Problems in Engineering	
22	Modelling and Simulation in Engineering	
23	Open Civil Engineering Journal	
24	Open Materials Science Journal	
25	Reviews on Advanced Materials Science	
26	Smart Materials Research	
27	World Journal of Mechanics	
28	Buildings	
29	Construction Economics & Buildings	
30	International Journal of Advanced Structural Engineering	
31	International Journal of Civil and Structural Engineering	
32	International Journal of sustainable Construction & Design	
33	Journal of Construction in Developing Countries	
34	Journal of Information Technology in Construction	
35	Lean Construction Journal	

	36	Open Construction & Building Technology Journal	
	37	Organization, Technology and Management in Construction: An International Journal	
	38	Sustainable Buildings	
	• E- Library facilities	• RGPV E-Library Subscription • 10 PCs with Internet Connection	
	• National Digital Library (NDL) subscription details	Registration No.: INMPNCLKWV4ZJ9A Date of Registraton : 13/04/2021	
	• Laboratory and Workshop		
	• List of Major Equipment/Facilities in each Laboratory/Workshop		
	1. Chemistry Lab 2. Engineering Physics Lab 3. Basic Electronics Lab 4. Basic Electrical Lab 5. Basic Civil Lab.& Surveying lab 6. Basic Mechanical Lab. 7. Graphics Lab (Object drawing models) 8. Computer Centre 9. Mechanics Lab. 10. Electronics Instrument Lab. 11. Network Analysis Lab. 12. Electrical Instrument Lab. 13. Digital Communication Lab. 14. Analog Communication Lab. 15. Electronics Devices & Circuit 16. Digital Electronics Lab. 17. Project Lab. EC 18. Fluid Mechanics Lab. 19. Digital Communication 20. Microwave Test Bench Lab. 21. Communication Network & Transmission Lines 22. Power Electronics Devices & Circuit 23. Transportation Engineering-II 24. Concrete Lab. 25. Strength Material Lab. & Material Science Lab. 26. Theory of Machine 27. Vibration Lab. 29. Mechanical Measurement/ Instrumentation & Control 30. Geo_Tec Lab.	36. Control System 37. Ex Drive Lab. 38. Switchgear & Protection 39. Theory of Structure Lab. 40. Thermal Engg. & Gas Dynamics 41. Heat & Mass Transfer Lab. 42. CAE/CAD/Cam Lab. 43. Machine Tool Lab. 44. IC Engines and Automobiles Lab. 45. RAC Lab. 46. Advance Survey Lab. 47. Environment Lab. 48. Engg. Drawing (B.D.d , R.C.C & Steel 49. Programming Lab. C++ 50. Programming Lab. Java/.Net 51. Operating System Lab. (Unix/Linux/Windows) 52. Soft Computing Lab. / DBMS Lab. 53. Data Structure / ADA Lab. 54. Computer Networking / Web Engg. Lab. 55. Language Lab./ Compiler Design Lab. 56. Computer Graphics and Multimedia/ ISM Lab. 57. Software Engg. Lab. 58. Major/Minor Project Lab & CISCO Lab. 59. Minor Project 60. Major Project 61. Simulation Lab. 62. Computer Aided Machine Design Lab. E.E	

<table>
<tr><td></td><td>31. Optical Communication
32. Antenna & Wave Propagation
33. TV & Radar Engg.
34. Micro Processor & Micro Controller Lab.
35. Software Lab., Hardware Description Languages & including VLSI Design Lab. & DSP Lab.</td><td>63. Industrial Training E.E
64. Industrial Project Lab. E.E
65. Power System
66. Electrical Workshop
67. Fitting Shop
68. Carpentry Shop
69. Black Smithy Shop
70. Welding Shop
71. Machine Shop
72. Foundry Shop</td></tr>
<tr><td></td><td>• List of Experimental setup in each Laboratory/ Workshop</td><td></td></tr>
<tr><td></td><td colspan="2">CHEMISTRY LAB. Equipments</td></tr>
<tr><td></td><td>• Redwood Viscometer 1
• Redwood Viscometer 2
• Cleveland apparatus
• Pen sky marten's apparatus.
• Abel's Flash point apparatus
• Cloub & pour point apparatus.
• Arbon Residue apparatus
• Analytical Balance
• Single pan digital Balance
• Water Distillation Unit
• Weight box.
• Electric oven
• Stop watch
• Manganese (II) Sulphate,
• Potassium Iodide 99% ,
• Sodium Thiosulphate ,
• Starch Indicator
• Potassium Dichromate
• Sulphuric Acid 98% Extra Pure
• Ferroin Solution
• Sodium Hydrogen Carbonate
• Phenolphthalein (Indicator)
• Methyl Orange Indicato
• Hexamine Extra Pure 99%
• Hydrazine Sulphate 98%
• Indicator Paper Wide Range 2-10.5
• Ammonia Solution 25%
• Calcium Hydroxide 95% Extra Pure</td><td>• Potassium Dichromate 99.5%
• N-Phenylanthranilic Acid 99% AR
• Ammonium Ferrous Sulphate
• ferrous sulphate heptahydrate
• Calcium Carbonate
• Buffer Tablets pH 9.2
• EDTA solution 0.02N (N/50)
• Eriochrome Black T GR
• Potassium Permanganate
• Acetic Acid Glacial
• Copper (metal) Turnings 99.5%
• Magnesium Oxide (Light) Extra
• Lead Acetate (Trihydrate) 99% Pure
• Carbon Tetrachloride 99% Extra Pure
• Ethanol AR 99.7%
• Ammonium Molybdate Tetrahydrate
• Cobalt nitrate
• Nessler's Reagent
• Borax (di-Sodium Tetraborate Decahydrate)
• Sodium Hydroxide soln .1N
• Barium Chloride (Dihydrate)
• B.O.D. Bottls-Borosil-1250-300ml
• Burette-(Borosilicate Glass) Jsil-50ml
• Pipette volumetric-Jsil-10ml
• Conical Flask-Borosil-4980-250ml
• Test Tubes-Borosil-18x150mm-20ml
• Funnels plain-Borosil-6140-50mm</td></tr>
</table>

• Nitric Acid 69% Pure • Silver Nitrate • Ferric Oxide Red 95% Extra Pure • Tin Chloride • Mercuric Chloride	• Kohlrausch Flask-Jsil-50ml • Silica Crucible w/o lid-50ml-Infusil • Dessicator plain woth cover-China-150mm • China Dishes (Evaporating)-3” dia • Wash Bottle Plastic-500ml • Tongs (Crucible Tings) S/S-12” • Watch Glasses-3” dia - Indian.
ENGINEERING PHYSICS LAB. Equipments	
• Diode Characteristics apparatus. • Transistor characteristics apparatus • Nodel Slide Assembly • Sextant, Newton's Ring Apparatus. • Spectrometer • Sodium Vapour Lamp • Calibration of Voltmeter • Sodium Vapour calibration of Voltmeter • Calibration of Ammeter • Melde's Apparatus • electric Vibrator 220V • Cathode ray oscilloscope	• Study of Logic Gates • Grating • Digital Multi-meter • Zener Diode characteristics • Meter Scale wooden • Mercury Vapour Lamp with lamp housing • Optical bench & biprism assy • He-ne Laser Kit, • Resolving power of Telescope with stand. • Polarimeter • P.N. Junction Diode characteristics aparatus. • Photo Diode solar cell.
PHYSICS DIPLOMA LAB. Equipments	
• "To determine the Refractive index by spectrometer • Spectrometer, prism, mercury vapor lamp, spirit level and reading lens." • "Ohm’s law app. With 2 round meters without power supply • Objective : To Verify Ohm's law i.e V = IR • Screw gauge • Verification of Newton's law of cooling.	• Specifications : Instrument comprises of Two moving coil meters to measure voltage & current, One wire wound Potentiometer, Circuit diagram Printed & Connections brought out at erminals for connecting 6 Volts battery & One wire wound Resistance. " • Vernier Caliper Measuring range 0 to 200mm, least count 0.02mm. Made of rust proof alloy steel.
BASIC ELECTRONICS LAB. Equipments	
• PN junction dioide Characteristics apparatus, • Zener Diode Characteristics apparatus. • Amplifier apparatus	• "Function Pulse Gen.+ 40 MHz Frequency Counter

• Study of encoder & decoder • Half wave & full wave rectifier apparatus • Study of 'T' type "LC" passive low pass high pass, band pass & band stop filters, • Demorgan theorem • Basic Logic gates trainer using "TTL" les • Study of half adder & Full adder • Cathode ray oscilloscope • 4 in 1 ONE ECONOMIC SOLUTION 30MHz CRO + 1 MHz Function Generator + Component Tester + DC Power Supply all in One. "SCIENTECH' Make (An ISO 9001 Company) • 30MHz Oscilloscope with 1 MHz Function Generator and DC Power Supply, Model: Caddo 820 • Oscilloscope with Digital Readout of ranges Model: Caddo 801 (With 30 MHz Bandwidth) • Features: • "NVIS" Make ("Scientech" Group Enterprise) 70 MHz, Digital Storage Oscilloscopes Model: NB207C1T • "Function Generator + 40 MHz Frequency Counter • "SCIENTECH" ISO 9001 Certified Company • 1MHz Function Generator with External 40 MHz Frequency Counter & Sine, Square, Triangle, DC	• 3 MHz Function – Pulse Generator with 40MHz • Frequency Counters & Sine, Square, Triangle, Ramp, Pulse and TTL outputs • "Double Function Generator (Modulation Generators) & Frequency Counter • 10 MHz Function - Pulse – Data Generator with 40MHz Frequency Counter (Double Function Generator i.e. Modulation Generator) with Sine, Square, Triangle, Ramp, Pulse and Serial Data outputs • AM Standard, AM Balance, FM, ASK, FSK, PWM Modulation. • 8031/51/8951 CPU operating @ 10 MHz 8 KB RAM with Battery backup expandable up to 64 KB 16 KB powerful monitor EPROM 24 I/O lines using 8255 • 8253 Timer /Counter(Optional) 8251 USART chip(optional) • RS-232 C Interface using TX/RX 25 keys keyboard & eight seven segment display using 8279. Keyboard mode & serial mode. Facility for uploading/downloading • All address, Data & control signals are available at 50/20 pin FRC Cross assembler In-built power Supply:+ 5V±12V • 3 ½ digit Digital Multi-meter, Model: 603" • "Arduino Starter Kit 1,350 10 13,500 • Includes: • Arduino USB Board - Freeduino ATmega328 • 1Amps,12V DC SMPS Power Supply • Study of filp flop circuits
BASIC ELECTRICAL LAB. Equipments	
• Moving Iron portable ammeter • Moving Iron portable ammeter	• Zener diod characteristics app. • LAMP LOAD

• Moving coil Portable ammeter • Moving Iron portable voltmeter • Moving Coil Portable voltmeter • Analog Multi-meter • Digital Multi-meter • Digital Tachometer • Transformer 2kva , 220 V/ 220 V • Variac 4 amp, 8amp, 15 amp • 3-Phase HP induction motor • Auto transformer	• Capicitive load kit • Choke quiel kit • Phase Induction motor • Rectifier Unit • Watt meter • Low PF waitmeter • Rheostate • Inductive Load • Portable frequency meter • Digital frequency meter • PF Meter
BASIC CIVIL LAB. & SURVING LAB. Equipments	
• Measuring Tapes • Metic Chain • Ranging Rods • Chain Arrows • Brass, Dumpy Level with stand • Auto level, Theodolite with stand	• Prismatic Compass with stand, survey compass with stand • Plane Table cube mould, compression testing • Vicat Needle Apparatus • Optical Square • Line Ranger
BASIC MECHANICAL LAB. Equipments	
• Lancashire Boiler • Cochran Boiler • Locomotive Boiler • Babcock & Wilcox boiler, Cornish Boiler • Lever safety valve • Spring Loaded safety valve • Dead Weight Safety Valve • Combined high steam & low water safety Valve • Water Guage • Stop Valve Hopkinton Type • Feed Check Valve • Steam Injector • Pressure Guage	• Blow off Cock • Reducing Valve • Fusible Plug • Anti Priming Pipe • Expansion Steam Trap • Float Steam Trap • Green Economizer • Sudgen Super Heater • Two Stroke Petrol Engine • Wto Stroke Petrol Engine • Model of Steam Engine • Two Stroke Diesel Engine • Four Strock Diesel Engine • Reciprocating Engine Mechanism
GRAPHICS LAB Equipments	
• Cube • Skelton Cube • Cone • Cone (Cut in four section)	• Tetra Headron • Octa Headron • Circle • Double Cross

• Sphese (15 cm) • Half Sphere • Cylinder • Semi Cylinder • Quarter Cylinder	• Single Cross • Modle of Plate (Set of 7 plates) • A set of Wooden model on interpretation of Solids (Set of 10) • Projection of Straight lines
COMPUTER CENTRE Equipments	
• Printer Color jet • Printer Laser et • UPS (62 KVA)	• Headphone with mike • Computer System
MECHANICS LAB. Equipments	
• Ploygon Force Apparatus • Parallel Forces Apparatus • BellCrank Lever Apparatus • Parallel Law Apparatus • Simple Jib Crane • Friction Slide Apparatus • Inclined Plane Apparatus	• Shear Force Apparatus • Bending Moment Apparatus • Moment of Inertia of Fly wheel • Screw Jack • Pully Block • Simply Supported Beam with Uniformly • Gear Train Apparatus
ELECTRONICS INSTRUMENT LAB. Equipments	
• 'SCIENTECH ''Make Temperature Transducer Trainer Model AB -2302 • 'SCIENTECH ''Make Displacement Measurement Trainer using LVDT Model AB -2303 • 'SCIENTECH ''Make Strain Gauge Trainer Model AB -2304 • 'SCIENTECH ''Make A/D Converter Trainer Model AB -2601 • 'SCIENTECH ''Make digital to Analog Convertor Trainer Model AB -2602 • whestones Bridge Model AB-10	• Kevin"s Bridge Model AB -60 • Wien Bridge oscillactore model AB-66 • Schering Bridge Model AB-13 • Maxwell Inductance Bridge AB-59 • 'SCIENTECH ''Make CRO Demodulation Tainer Model ST 2001 E • 'SCIENTECH ''Make Power supply for analog Board Model AD-01 • 'SCIENTECH ''Make Optical Transducer Trainer Model AB -2301 • Scientech make 1 MHZ Function Generator LCD Display Model Caddo -4060 C
NETWORK ANALYSIS LAB. Equipments	
• Scientech Analog Work station (lab) Model ST 2612 • Kirchoff s law Model AB-81 • Tellegen's & maximum Transformer theorem Model AB- 84 • Thevnin's & Maximum Transformer Theorem Model AB-82	• Two port Network Model AB-90 • Scientech make Dual Power Supply Model ST -4075 • "NVIS" Make Electrical Safety Demonstrator Model :NV 7000

• Reciprocity Theorem Superposition Theorem Model AB-83 • RLC Series & RLC Parallel Resonance Circuit Model AB-80	• 'SCIENTECH ''Make Digital multi meter , manual Ranging With frequency Counter Model -DMM-4011 • 'SCIENTECH ''Make Power supply for analog Board Model AD-01
ELECTRICAL INSTRUMENT LAB. Equipments	
• Calibration of dynamometer power factor meter • Calibration of LPF wattmeter - by Phantom testing • To Practice with the balancing of a four arm bridge and to determine the resistance of an unknown resistance of medium range (Wheatstone Bridge)Complete with DC Source, Galvanometer • To Measure current in AC Circuit using instrument transformer : Supplied complete with Current Transformer 100/5A ,Variable High Current generator, AC Ammeter of 0-5Amp calibrated in terms of 20Amp, SKE Make • To practice with the balancing of the Kelvin's bridge and to determine precisely the resistance of an unknown resistance whose value is less than 1 ohm (Kelvin's bridge kit) Complete setup with power supply	• Calibration and testing of single phase energy meter • Study of Indicating Instrument Housed in Transparent acrylic sheet with working demo. • voltmeter of single range • Electrodynamometer Type Wattmeter two voltage and two current rang • Measurement of Insulation Resistance Study of Megger • Measurement of High Resistance using Loss of Charge Method Complete experimental setup with High Resistance and metering devices • Measurement of Power in three phase circuit using one two and three watt meters complete with three phase load complete experimental setup for calibration of voltmeter complete experimental setup for calibration of ammeter • Measurement of Earth Resistance by fall of potential Method
MACHINE LAB. Equipments	
• Summer Test On A Pair of Single Phase Transformers • Summer test on a pair of single phase transformers transformers single phase 2KVA input 220V OUT 220V • Summer test on a pair of single phase transformers control panel • SUMMER TEST ON A PAIR OF SINGLE PHASE TRANSFORMERS Dynamometer wattmeter 5/10A 75/150/300 volt • SCOTT CONNECTION Of TRANSFORMERS	• O.C & S.C. test on single phase transformer wattmeter LPF 1/2A,75/150/300V • Parallel operation of single phase transformer • Parallel operation of single phase transformer 220V,1 KVA • Parallel Operation of Single Phase Transformer Control Panel

• SCOTT CONNECTION Of TRANSFORMERS single phase transformers 2kva 230/230v • SCOTT CONNECTION Of TRANSFORMERS 3 phase transformers 15 Amp ., 0-4440 v • SCOTT CONNECTION Of TRANSFORMERS control panel • SCOTT CONNECTION Of TRANSFORMERS 1 phase loading Rheostat 5 kw,220v with 10 equal steps • O.C & S.C TEST ON SINGLE PHASE TRANSFORMER • O.C & S.C TEST ON SINGLE PHASE TRANSFORMER transformer single phase 1 KVA input 220 V output 220 V • O.C & S.C TEST ON SINGLE PHASE TRANSFORMER control panel • O.C & S.C TEST ON SINGLE PHASE TRANSFORMER wattmeter USF 5/10A,75/150/300v	• PARALLEL OPRATION OF SINGLE PHASE TRANSFORMER WATTMETER 5/10A 150/300/600V • SCR DC DRIVE INPUT 415V 3 PHASE OUTPUT 0-250 VOLT DC CAPICITY 100A • 1 PHASE AUTO TRANSFORMER 10AMP • TECHOMETERS: Digital hand Held Tachometers0-9999RPM • 3 phase Auto transformer 5kva • Cut transparent working model DC Motor • Cut transparent working model of AC Squirrel cage Induction motor 3 phase • Cut transparent working model of 3PH alternator 1 KVA • Cut transparent working model of Ac Squirrel cage Induction motor capacitor start capacitor run single phase • Cut transparent working model of single phase transformer
DIGITAL COMMUNICATION LAB. Equipments	
• 'SCIENTECH ''Make Sampling and reconstruction trainer Model ST -2101 • 'SCIENTECH ''Make TDM PULES AMPLITUDE MODULATION TRAINER Model ST -2102 • 'SCIENTECH ''Make TDM PULES CODE MODULATION /TRANSMITTER TRAINER Model ST -2103 • 'SCIENTECH ''Make TDM PULES CODE MODULATION /RECEVIER TRAINER Model ST -2104 • SCIENTECH ''Make Audio Input Mould TRAINER Model ST -2108 • 'SCIENTECH ''Make Audio Input Mould TRAINER Model ST -2109 • 'SCIENTECH ''Make Differential Pulse Code MODULATION (DPCM) TRAINER Model : ST 2113 • "SCIENTECH" Make (An ISO 9001 Company) , • Data Formatting and Carrier Modulation Transmitter Trainer. • Carrier Demodulation & data Reformatting Receiver Trainer • PAM, PWM, PPM, Modulation & Demodulation Trainer.	
ANALOG COMMUNICATION LAB. Equipments	
• 'SCIENTECH ''Make DSB/SSB AM Tarnsmitter Tainer Model :ST 2201 • 'SCIENTECH ''Make DSB/SSB AM receiver Tainer Model :ST 2202 • 'SCIENTECH ''Make Frequency modulation /Demodulation Tainer Model ST 2203 • 'SCIENTECH ''Make FM Communication tainer Model :ST 2204 • 'SCIENTECH ''Make four channel Analog TDM Tainer Model:ST 2207	

ELECTRONICS DEVICES & CIRCUIT	
• CRO Caddo -801 • Function Generator Caddo -4060c • Power Supply AD-01 • CRO with Function Generator Caddo 820 • Dual power Supply ST 4075 • Digital Lab Trainer ST- 2611 • Analog Lab Trainer ST- 2612 • Schmitt Trigger and comparator AB 45 • Digital Multi-meter • Transistor Characteristics Kit AB 04 • Transistor Characteristics Kit AB 03 • FET Characteristics Kit AB 08 • Class A Amplifier Kit AB-21 • Active Filter Kit AB 51 • Class B Amplifier AB-22 • Diode Characteristics Kit AB 01 • SCR Characteristics Kit PE -03 • Transistor Series Voltage Regulator AB-32 • DIAC Characteristics Kit PE -05	• TRAIC Characteristics Kit PE -04 • MOSFET Characteristics Kit PE -02 • IGBT Characteristics Kit PE -06 • Tschebyscheff Filter Kit AB-54 • Transistor shunt voltage Regulator AB -33 • Multi-vibrator Kit AB -28 • Class C Amplifier kit AB -23 • Wein Bridge Oscillator AB-66 • Colpitt Oscillator Kit AB-67 • FET Amplifier KIT AB -26 • Hartley Oscillator Kit AB -68 • UJT Characteristics Kit PE -01 • Differential Amplifier kit AB-41 • OP-Amplifier kit AB -42, • OP-Amplifier kit AB -43, • OP-Amplifier kit AB - ,44 • Bread Board • CRO Cable
INTEL LAB. Equipments	
• intel Galileo Boards • Advance Sensor Set For Arduino • intel Centrino N 135 Min Pcle • MicroSD card 8 gb	• Atwin Quad Band GRPS/GSM Sheild for Arudoino • Triple Axis Accelerometer And Gyto Breakout MPU 6050 • Jumper Wires berg Sticks
DIGITAL ELECTRONICS LAB. Equipments	
• CRO Caddo -801 • Function Generator Caddo -4060c • Power Supply AD-01 • Power Supply PD -01 • Digital Lab Trainer ST- 2611 • EX –OR Kit DB-03 • Code Conversion Kit DB-07 • Binary Adder Subs tractor Kit DB-08 • Code Conversion Kit DB-06 • Flip Flop Kit DB-11 • Encoder – Decoder KIt DB -09	• Logic Gates Kit DB -01 • Universal Gate Kit DB-02 • DE- Morgan’S Theorem kit DB-04 • Multiplexer –Demultiplxer kit DB-10 • Shift resistor Kit DB-12 • Bit Synchronous Binary Counter KIT DB-13 • 4 –Bit Binary Ripple Counter Kit DB-14 • PN Sequence Generator ST 2114 • Analog to Digital DB-22 • Digital to Analog DB-16 • Bread Board

ELECTRONICS PROJECT LAB. Equipments	
• ICS 555 timer • 741 IC (OPAMP) • 7805,7812 REGULATOR IC • Resistances, Inductors & capacitors on board with color coding, • Diode (all type) • Transistors (NPN PNP) • jumpers • solder Iron solder wire flux • coplete tool kit • carpantry vice 8'' • netco hack saw frame • LION BENCH VICE • netco bench vice 3'' • motu star ter L&T 15 amp • "C.R.O.- Next Generation Analog CRO "Scientech" Model Caddo – 831	• Features :• Auto Time base • Auto Frequency Measurement & Counting • 30 MHz 2 Channel 4 Trace setting position readout by LCD display • Gold Plated BNC • USB interface & PC Software (Optional) • Note: CRO Model: 831 is World first & our latest, model with Auto time base & Frequency measurement facility & LCD Display Of Switches & nobes position." • Bread Board 4"×10" • Resistance 10 W 10Ω, 100Ω, 200Ω, 300Ω & 400Ω • Tin Wire • "SCIENTECH" ISO 9001 Certified Company • Digital Multi-meter, Manual Ranging with Frequency Counter. Model: DMM-4011 (Ruf & Tuf Model) " • FLAT CABLE 489M*3
FLUID MECHANICS LAB. Equipments	
• Bernoullis apparatus Theorem Apparatus • Venturi and Orifice meter Apparatus • Loss due to Pipe due to Friction • Pitot tube apparatus • Loss due to Pipe fitting sudden enlargement and constratus	• Notches With 03 set (v, rect, trape) • Metacentric Height Apparatus • Reynold's Apparatus • Impact Of Jet on vanes Apparatus • App. For cd, cv, and cc of orifice and cd of mouth piece
MICROWAVE TEST BENCH LAB. Equipments	
• "NVIS" Make (Scientech Group Enterprise) • Microwave Test Bench. (Klystron Based) • Model: NV – 9000"	• "NVIS" Make (Scientech Group Enterprise) • Microwave Test Bench. (Gunn Based) • Model: NV – 9001"
COMMUNICATION NETWORK & TRANSMISSION LINES	
• Transmission Line Trainer • M-Derived filter, Model: AB-48" • "NVIS" Make ("Scientech" Group Enterprise) • Active Filters (LPF + HPF)	• Active Band pass filter, Model: AB –52" • "SCIENTECH" Make (An ISO 9001 Company) , • Notch Filter (active + Passive), Model: AB-53"

	• Digital LCR Meter
POWER ELECTRONICS DEVICES & CIRCUIT	
• IGBT Characteristics, Model: ST 2701" • "NVIS" Make ("Scientech" Group Enterprise) • Triac Characteristic Trainer. Model: NV 6532" • "NVIS" Make ("Scientech" Group Enterprise) • Diac Characteristic Trainer. Model: NV 6531." • "NVIS" Make ("Scientech" SCR) • Characteristic Trainer. Model:NV6530" "Scientech" Make (An ISO 9001 Company)	• UJT Characteristic with Power Supply, Model: PE-01" • "Scientech" Make (An ISO 9001 Company) • Triggering (Using UJT) with Power Supply , Model: PE-11" • MOSFET Characteristics with Power Supply, Model: PE-02" "Scientech" Make (An ISO 9001 Company) • Single Phase Converter firing Techniques, Model: ST- 2710" "Scientech" Make (An ISO 9001 Company) • Speed Control of AC motor using TRIAC, Model: ST 2715"
FLUID MECHANICS LAB. Equipments	
• "Francis turbine • Francis Turbine Test Rig, Output Power 1kW with Kirloskar pump set, L&T make starter, Mechanical Dynamometer and MS Tank with inner side fiber coating (size 120cm X 100cm x 50cm), 3 inch GI pipe fitting, Orifice Manometer for discharge measurement • Motor 5 HP (Kirloskar/ Crompton Greaves) • Optional : Digital Tachometer)." • "Hydraulics Ram sump tank 100cmx50cmx40cm measuring tank for measure the discharge • v-notch for measure the discharge over head tank (100cmx40cmx40cm) on height 1.5m from hydraulics ram motor 1HP • Pressure gauge for measure the pressure" • "Calibration of Multistage Pump (multisatage centrifugal pump) • Centrifugal pump test rig (with variable speed and MS Tank with inner side fiber coating (size 80cm x 40cm x 30mm) Measuring tank (size 40cm x 40cm x 30cm) • 1 HP DC motor speed control dimmer • Optional : Digital Tachometer " • "Hydraulic Flume : Rectangular Open Channel (Adjustable) to study the flowing Experiment for the Manning's coefficient of roughness 'n' for a given flume. • Experiment for the velocity distribution in open channel. • To study the flow over hump placed in channel. (Vertical contraction in channel). • Experiment for the flow through a horizontal contraction in a rectangular channel.	

- Experiment to calibrate a broad-crested weir and study the pressure direction at the upstream end of the weir.
- Experiment for the characteristics of Hydraulic Jump
- To Study the characteristics of the flow over a free over fall in a channel and also determine the end depth.
- Length of working section : 5.0m
- Width of working section : 0.25m
- Depth of working section : 0.35m
- Motor Monogram : AC 02HP (Kirlosker)
- Sump Tank Size : 75cm x 60c"
- Kaplan turbine (Model) Size: 30 cm approximate made Wooden & metals
- Reciprocating Pump (Model) Size: 30 cm approximate made Wooden & metals
- Pelton whell (Model) Size: 30 cm approximate made Wooden & metals

MACHINE LAB. Equipments

- Determination of equivalent Circuit parameter of a single phase induction motor. Prediction of torque speed characteristic. Verification from load test. Equipment Required: - 1phase Cap. Start cap run Induction motor 1HP 220Volts with Drum pulley arrangement for loading purpose having round dial type spring balances with D.O.L. starter and switch. CONTROL PANEL It consist of nicely powder coated M.S. fabricated box with 4 feet x 2 feet x 6 inches with screen printed circuit will be fitted on the panel with duly marked termination and also back door of the panel will have lock facility for safety of panel. All the necessary accessories such as:-
- "1. D.O.L. Starter.
- D.P.S.T. Switches. HAVELL'S MAKE
- Analog meters Ammeter (0-15A) MI type (1 Pc)
- Analog meters Voltmeter (0-300V) MI type (1 Pc)
- Wattmeter 0-2000 watts.
- 1Phase Auto Transformer 10Amp.
- Fuses.
- Educational type Terminals brought out on the panel for doing connection by students also"
- "V and invested V-curves of a three phase synchronous motor. Comparison with predicted characteristics Equipment Required: - Synchronous motor 415Volts AC 3phase with brake load pulley belt load changing arrangement dial type spring balances. The motor will confirm to ISS 4722. TECH TRACK MAKE CONTROL PANEL It consist of nicely powder coated M.S. fabricated box with 4 feet x 2 feet x 6 inches with screen printed circuit will be fitted on the panel with duly marked termination and also back door of the panel will have lock facility for safety of panel. All the necessary accessories such as:-
- D.P.S.T., T.P.S.T Switches for motor and Generator. HAVELL'S MAKE
- For D.C. Generator:
- Analog meters ammeter (0-25A) MC Type (1 Pc)
- Analog meters Voltmeter (0-300V) M.C. Type (1 Pc)

- Field Regulator.
- For Synchronous Motor:
- Analog meters Ammeter (0-10A) M.I. Type (1 Pc).
- Analog meters Voltmeter (0-500V) M.I. Type (1 Pc).
- Frequency meter. (1 Pcs)
- M.C.B. (1 Pc).
- Indicating Light (3 Pcs).
- Power Factor (1 Pc).
- Shunt Field Regulator (1 Pc).
- For Excitation:
- Analog meter Voltmeter (0-300V) M.C. Type
- Analog meter Ammeter (0-2A) M.C. Type 01 01
- NOTE:- We have Quoted Synchronous Machines under brand name TECH TRACK these are Manufactured by an ISO 9001-2000 Certified Company all Armatures of our Machines are Dynamically balanced on Micro Processor Based balancing Machine.
- Regulation of 3 phase alternator by (1) Zero power factor and (2) A.S.A method (3) MMF and (4) Potiers method & results Equipment Required: - DC shunt motor 3HP, 220V, 1500 rpm coupled to 3phase 440Volts Alternator 2va coupled bolted on common base plate with flexible coupling. CONTINENTAL /TECH TRACK MAKE If the Customer require above machine without control panel then they have to purchase machine with Dc starter and if they want to purchase Control Panel mentioned below then Dc starter will be in-built in the panel. They don't require Dc starter. CONTROL PANEL It consist of nicely powder coated M.S. fabricated box with 4 feet x 2 feet x 6 inches with screen printed circuit will be fitted on the panel with duly marked termination and also back door of the panel will have lock facility for safety of panel. All the necessary accessories such as:- 1. D.P.S.T., T.P.S.T Switches for motor and alternator. HAVELL'S MAKE For D.C. Motor: 1. Analog meters ammeter (0-15A) MC Type (1 Pc) 2. Analog meters Voltmeter (0-300V) M.C. Type (1Pc) 3. Field Regulator. For Synchronous Alternators: 1. Analog meters Ammeter (0-10A) M.I. Type (1 Pc) 2. Analog meters Voltmeter (0-500V) M.I. Type(1Pc) 3. M.C.B. (1 Pc) 4. Indicating Light (3 Pcs). 5. Field Rheostat
  NOTE:- We have Quoted DC Machines and AC Alternator under brand name TECH TRACK these are Manufactured by an ISO 9001-2000 Certified Company all Armatures of our Machines are Dynamically balanced on Micro Processor Based balancing Machine.
- "Determination of Xd and Xq of a salient pole synchronous machine. Equipment Required: -& Standard short circuit test & determination of Xd, Xd' and Xdand machine time constant. DC shunt motor 3HP 220Volts coupled to 3phase 440Volts Alternator (Salient Pole) Rotating Field type 2kva coupled. Bolted on common base plate with flexible coupling. CONTINENTAL /TECH TRACK MAKE If the Customer require above machine without control panel then they have to purchase machine with Dc starter and if they want to purchase Control Panel mentioned below then Dc starter will be in-built in the panel. They don't require Dc starter. CONTROL PANEL It consist of nicely powder coated M.S. fabricated box with 4 feet x 2 feet x 6 inches with screen printed circuit will be fitted on the panel with duly marked termination and also

back door of the panel will have lock facility for safety of panel. All the necessary accessories such as:-

- D.P.S.T., T.P.S.T Switches for motor and alternator. HAVELL'S MAKE
- For D.C. Motor:
- Analog meters ammeter (0-15A)MC Type (1 Pc)
- Analog meters Voltmeter(0-300V)MC Type(1Pc)
- Field Regulator.
- For D.C. Generator:
- Analog meters Ammeter (0-5A) MI Type (1Pc)
- Analog meters Voltmeter (0-500V) MI Type(1Pc)
- M.C.B. (1 Pc)
- 01 01
- Indicating Light (3 Pcs).
- Field Rheostat
- Measurement of phase sequence impedance of a 3 phase alternator & No loads short circuit test & legend current test on alternator. Equipment Required: - DC shunt motor 3HP, 220V, 1500 rpm coupled to 3phase 440Volts Alternator 2va coupled bolted on common base plate with flexible coupling. CONTINENTAL /TECH TRACK MAKE If the Customer require above machine without control panel then they have to purchase machine with Dc starter and if they want to purchase Control Panel mentioned below then Dc starter will be in-built in the panel. They don't require Dc starter. CONTROL PANEL It consist of nicely powder coated M.S. fabricated box with 4 feet x 2 feet x 6 inches with screen printed circuit will be fitted on the panel with duly marked termination and also back door of the panel will have lock facility for safety of panel. All the necessary accessories such as:- 1. D.P.S.T., T.P.S.T Switches for motor and alternator. HAVELL'S MAKE For D.C. Motor: 1. Analog meters ammeter (0-15A) MC Type (1 Pc) 2. Analog meters Voltmeter (0-300V) M.C. Type (1Pc) 3. Field Regulator. For Synchronous Alternators: 1. Analog meters Ammeter (0-10A) M.I. Type (1 Pc) 2. Analog meters Voltmeter (0-500V) M.I. Type(1Pc) 3. M.C.B. (1 Pc) 4. Indicating Light (3 Pcs). 5. Field Rheostat NOTE:- We have Quoted DC Machines and AC Alternator under brand name TECH TRACK these are Manufactured by an ISO 9001-2000 Certified Company all Armatures of our Machines are Dynamically balanced on Micro Processor Based balancing Machine.
- "Synchronization of 3 phase alternator. Equipment Required: - DC shunt motor 3HP 220Volts coupled to 3phase 440Volts Alternator 2kva. Bolted on common base plate with flexible coupling. CONTINENTAL /TECH TRACK MAKE If the Customer require above machine without control panel then they have to purchase machine with Dc starter and if they want to purchase Control Panel mentioned below then Dc starter will be in-built in the panel. They don't require Dc starter. SYNCHRONIZING PANEL:- FOR DC MOTOR
- M.C. Volt meters 96 x 96sq, mm. 0-300V –2Nos.
- MC Ammeters 96 x 96mm 0-20A –2znos.
- Field Rheostat 1.4A, 230ohms –2Nos.
- DPIC, 16A, 240V –2Nos. HAVELL'S MAKE
- DC starter 3point face plate type suitable for above motor –2Nos.

- Indicating Lights.
- Insulating terminals."
- "FOR AC GENERATOR
- M.I. Volt meters 96 x 96sq, mm. 0-500V with voltage selector switch –2Nos.
- MI Ammeters 96 x 96mm 0-5A –2znos.
- Frequency meter vibrating reed type 96 x96xsq. mm –2Nos.
- Phase sequence indicator, 96 x96 sq. mm –1no.
- Bulb with holder –6nos.
  6. Synchroscope 144 x 144sq mm suitable for 440V AC operation panel type –1no.
- Tripple pole, Double throw Knife switch –1set.
- M.C.B 6A, 3pole –2nos.
- Excitation controlling arrangement –2nos.
- Power factor meter 96 x 96mm –1no.
- Insulating Terminals for both the machines."
- "FOR DC EXCITER
- M.C. Volt meters 96 x 96sq, mm. 0-300V –2Nos.
- M.C.B Double pole 6A –2nos.
- NOTE:- We have Quoted DC Machines and AC Alternator under brand name TECH TRACK these are Manufactured by an ISO 9001-2000 Certified Company all Armatures of our Machines are Dynamically balanced on Micro Processor Based balancing Machine"

TRANSPORTATION ENGINEERING LAB. Equipments

- Aggregate Crushing Value Test Apparatus As per IS: 9376, Size 150mm
- Aggregate Impact Value Test Apparatus as per IS: 9377 a. With Counter.
- Los Angles Abrasion Testing Machine As per IS : 10070
- Laboratory C.B.R. Consist of test apparatus As per IS:9669
- Load Frame :
- Hand Operated Capacity 5 Ton (Double Speed).
- C.B.R. Mould with Collar and Brass Plate.
- Made of Mild Steel.
- Penetration Piston faces 50mm dia (without Dial Gauge).
- Adjustable Bracket for Penetration (without Dial Gauge).
- Circular spacer Disc. 148mm dia x 47.7mm high with adjustable Handle.
- Annular Metal Weight 2.5 Kg x 147mm dia with 53mm dia Central Hole.
- Slotted Metal Weight 2.5 Kg x 147mm dia with 53mm slot.
- Perforated Brass Plate 148mm dia with adjustable stem & lock nut
- Metal Tripod for dial gauge (without dial gauge).
- Cutting Collar.
- Rammer 2.6 Kg weight x 310mm free fall
- Rammer 4.89 Kg weight x 450mm free fall.

- Proving Ring Capacity 5 Ton (5000 Kgf) Fitted with dial gauge 0.002mm/divn with Calibration Chart
- Standard Penetrometer for Bitumen IS : 1203 with Needle.
- Standard Electrical Heated Tar Viscometer for Bitumen IS : 1206 with 10mm Cup.
- Softening Point Apparatus (Ring & Ball) Motorized with Hot Plate.IS:1205
- Ductility Testing Machine. IS: 1208
- "ASI PENSKY MARTEN FLASH POINT APPARATUS. IS: 1209
- This apparatus is made as per IP 34 ASTM D-83 and IS 1448 (Part 1) 1270
- (P 21) and IS
- 1209-1953 method B. The apparatus consists of brass test cup with handle removable cup cover with spring operated rotating shutter having Oil Test Jet/Gas Test Jet Flame
- Device, stirrer with metal top. The cup fitted with insulated Handle and locking arrangement near Cup flange. The assemble is kept on round shape electric heater with temp. regulator. Suitable for operation on 220 Volts 50 cycles AC Circuits.
- Pensky Martens Flash Point Apparatus Elect Heated with Energy Regulator Oil Test jet"
- Bitumen Extractor Capacity 1500 gm. Hand Operated.
- Coarse Sieves 12'',80 mm,40 mm,20 mm,16 mm, 12.5mm,10mm
- "Fine sieves 4.75mm,2.36m,1.18mm,150
- micron,600 micron,300 micron"
- I.S. sieves no.1, Gauging Trovel
- Hand Gloves
- Tray(for mixing concrete) GI 1.5 Feet x 2 Feet
- Wooden pegs, Sieve Shaker Motorized
- Electronic balance of capacity 50kg, type - top loading, least count 100gm
- Motorised Marshall Stability Test Apparatus.AS per ASTM-1559-6LT Without Proving Ring & Dial Gauge of Breaking Head

CONCRETE LAB. Equipments

- "Electronic Weighting Balance Cap. 20 kg x 1 gm. Cure-win"
- "Le-Chatelier Test Apparatus (6 pieces compete)"
- "Moulds Cylinder Size:- 150mm diameter, 300 mm height"
- "CONCRETE TEST HAMMER (Small)
- (REBOUND HAMMER TEST APPARATUS)
- For destructive test for the quality of concrete in finished structures. In testing rebound number is measured, which is dependent instrument complete with a frinding stone for polishing the test surface, is supplied in leather carrying case."
- "Vee-Bee Consistometer: IS 1199.
  Consists of : A vibrating table, size 380 mm long and 260 mm wide, resting upon elastic support at a height of about 305 mm above the floor, complete with start/stop Switch Cord and plug A holder is fixed to the base into which a swivel arm is telescoped with funnel and guide sleeve the swivel arm is also detachable form Vibrating Table A graduated rod is fixed on a swivel arm and at its end a plastic disc is screwed the divisions of scale on the rod record

<table>
<tr><td colspan="2">the slump of the concrete in millimeters. Supplied complete with a sheet metal container with lifting handles which can easily be fixed to the Vibrating table. A slump cone open at both ends with lifting handles and a Tamping rod of size 16 mm dia and 600 mm long, rounded at one end."
• "Compacting Factor Test Apparatus with Graduated Cylinder of 1000ml capacity Balance to Weight to 30 kg (nearest to about 10g) tamping rod & iron buckets "
• "Shape Factor Flakiness Index Gauge "
• "Shape Factor Elongation Index Gauge "
• Vibrating table: table top is 50x50cm & has stops along its edge to prevent moulds from sliding off the table. 440Volt supply.
• Cement testing cube made of cast iron 75mm x 75mm x75mm
• Cement testing cube made of cast iron 150mm x 150mm x 150mm
• "TEST SIEVES : (Brass Frame)
20 cm (8"") dia Brass Frame without joint nicely polished Endecott Pattern, double folded bottom having beading at top tight fitting with each other finished as per ISS, BSS and ASTM. All fine series have stainless steel mesh and all coarse series have punched square steel sheet. Size : mm 850. mic."</td></tr>
<tr><td colspan="2">STRENGTH MATERIAL & MATERIAL SCIENCE LAB. Equipments</td></tr>
<tr><td>• Universal testing machine (cap.100 ton computerized)
• Sharing test attachment (big for utm)
• Bend test attachment
• Cube test attachment
• Torsion testing machine
• Impack testing machine
• Rockwell -cum brinell hardness machine</td><td>• Brinell microscope
• Buckling of column Apparatus
• Study of metallurgical microscope.
• To prepare microscopic structure for examination and to examine the micro structure of specimens of various metals and alloys. Metallurgical Polishing Machine
• Study of heat treatment furnaces. digital upto 1150° C temp.</td></tr>
<tr><td colspan="2">VIBRATION LAB. Equipment’s</td></tr>
<tr><td>• Universal Governor Apparatus
• Motorized Gyroscope Apparatus (Big Size.)
• Universal Vibration Apparatus
• Claw clutch
• Cylindrical cam with reciprocating follower</td><td>• Conical friction clutch
• Centrifugal clutch and cam
• Plate cam
• Single plate clutch
• Tangent cam
• Translating cam with reciprocating knife edge follower</td></tr>
<tr><td colspan="2">MECHANICAL MEASUREMENT LAB. Equipment’s</td></tr>
<tr><td colspan="2">• Temp. Measurement using Thermocouple: Sensor: Type K (Cr-Al) Thermocouple DISPLAY: 3 ½ digit Digital display. Accessory: Sensor assembly & water bath with heating arrangement Power Supply: Built-in IC regulated.</td></tr>
</table>

- Temp. Measurement & control using RTD: Sensor: RTD PT 100DISPLAY: 3 ½ digit Digital display. Accessory: Sensor assembly & water bath with heating arrangement Power Supply: Built-in IC regulated. Necessary patch chords. Instruction manual is provided with unit.
- Dead weight pressure gauge tester
- Digital anemometer

GEO TEC LAB. Equipment's

- Dynamic Cone Penetration Test Apparatus
- Special Soil Testing Kit, with Reagents for estimation of pH, Phosphorous Potassium, Nitrogen (Nitrate & Ammonia cal) Organic Carbon (Code Kit 100 ST) for testing 100 soil
- "Grain Size Analysis
  HS10.37 Hydrometer
  Test is performed as per IS:2720 (Part- IV). Used for particle size analysis of soil in suspension when it has more than 10% of 75 micron IS sieve passing material. The scale on the hydrometer is marked from 0.995 to 1.030 in terms of density (g/ml) of suspension at 27o C."
- "HS14.05 Core Cutter
  Field Density Kit IS: 2720 (Part XXIX)
  The kit consists of:-
  - Cylindrical core cutter 100 mm inner dia x 130 mm long with bevelled cutting edge and having wall thickness of 3 mm.
  - Steel dolley 100 mm inner dia x 25 mm high.
  - Rammer with steel rod for driving the core cutter"
- "Sp. Gravity by Pycnometer
  HS14.20 Pycnometer
  Test is performed as per IS:2720 (Part-III). Suitable for determination of specific gravity of sand and fine gravel. The apparatus consists of a glass jar of 1 kg capacity, complete with brass cone, rubber seal and screwed cap."
- "Sp. Gravity by Density Bottle
  HS14.25 Density Bottle
  It is performed as per IS:2720 (Part-I). Suitable for determination of specific gravity of fine soils. The apparatus consists of a 50 ml density bottle with capillary vent leak proof stopper."
- "Sp. Gravity by Density Bottle
  HS14.25 Density Bottle
  It is performed as per IS:2720 (Part-I). Suitable for determination of specific gravity of fine soils. The apparatus consists of a 50 ml density bottle with capillary vent leak proof stopper."
- "HS10.10 Liquid Limit Device
  Hand operated with counter
  The apparatus consists of a brass cup, a crank and cam mechanism, mounted on a rubber base of a specified hardness. A brass pin having a knurled end for easy removal holds the brass cup. The height of fall of the cup can be adjusted by a horizontal lead screw. The device is fitted with a drop counter to automatically record number of drops of the cup. Supplied complete with: Grooving Tool Type 'A' and Gauging Block as per IS: 9259 IS: 2720 (Part-V)."

- "HS10.31 Plastic Limit Apparatus
  Conforming to IS: 2720 (Part V)
  The apparatus consists of:
  - Glass plate 200 mm x 150 mm x 3 mm thick
  - Porcelain evaporating dish 120 mm dia.
  - Brass rod 3 mm dia, 100 mm long.
  - Flexible spatula with 80 mm long, 20 mm wide blade.
  - Moisture Cans 50 mm dia, 12 Nos."
- "HS10.30 Shrinkage Limit Apparatus
  The apparatus conforms to IS: 10077, and the test is performed as per IS: 2720(Part VI). The set consists of:-
  - 75 mm square Prong Plate made of 3 mm thick acrylic sheet with three metal prongs.
  - 75 mm square Plain Plate made of 3 mm thick acrylic sheet.
  - Stainless Steel Shrinkage Dish 45 mm in dia, 15 mm deep.
  - Glass cup with ground edge, 50 mm to 55 mm dia, 25 mm deep.
  - Flexible Spatula with 80 mm long, 20 mm wide blade"
- "Vane Shear Test
  HS22.95 Laboratory Vane Shear Apparatus
  Hand Operated
  The apparatus comprises of the following:-
  - A torque applicator having a base with a hole for holding the specimen mould in position, supporting frame carrying torque head adjustable in height and a graduated drum to measure the deformation of springs.
  - A set of four springs, one each of 2 kg cm, 4 kg cm, 6 kg cm and 8 kg cm.
  - A vane of size 12.0 x 24.0 mm long with a vane rod.
  - Specimen container to take a specimen of 50 mm dia x 75 mm high.
  - Wooden carrying case for the complete apparatus"
- "Permeability Test by Constant Head
  HS12.05 Permeability Apparatus 28,000/-Each
  IS: 2720 (Part-17), IS 11209
  It comprises:-
  - Compaction Permeameter Mould 1000 ml capacity, clamped between top and bottom drainage plates having recess for porous stones. Supplied along with a false bottom plate for use during compaction of soil in the permeameter and extension collar.
  - Stand pipe panel, with three glass tubes of 6 mm, 10 mm and 20 mm dia, one meter long, supplied with wooden meter scale and 3 meter rubber tubing."

OPTICAL COMMUNICATION LAB. Equipment's

- "SCIENTECH" Make (An ISO 9001 Company), Fiber Optics Trainer, Model: ST- 2501 (More Than 20 Practicals can be done) Technical Specification: Transmitter: 1No., Fiber Optic LED having peak wave length of emission 660nm. Receiver: 1 No., Fiber Optic Photo detector. Modulation Techniques:1)AM 2) FM 3) PWM. Drivers: 1 No. with Analog & Digital modes.PLL detector: 1

No. Comparator: 1 No. Filters: 1 No. 4th order Butterworth, 3.4 KHz cut – off freq. Analog Band Width: 350 KHz Digital Band Width: 2.5 MHz Function Generator: 1) 1 KHz Sinewave (Amplitude adjustable) 2) 1 KHz square wave (TTL). Voice Link: F.O. voice link using microphone & speaker (built in). Switched Faults: 4 in transmitter & 4 in Receiver. Fiber Optic Cable: Connector Type Standard SMA. Cable Type: Step indexed multimode PMMA plastic cable. Core Refractive Index: 1.492 Clad Refractive Index: 1.406 Numerical Aperture: Better than 0.5 Acceptance Angle: Better than 60 deg. Fiber Diameter: 1000 microns. Outer Diameter: 2.2 mm Fiber Length: 0.5 m & 1 m Test Points: 41 Inter connections: 4mm. Sockets • "SCIENTECH" Make (An ISO 9001 Company), Optical Power Meter Model: ST- 2551
ANTENNA & WAVE PROPAGATION
• "SCIENTECH" Make (An ISO 9001 Company) One set of Antenna Trainer With Radiation Pattern Plotting Software and 10 Antennas. Model: ST-22611. List of available antennas: Dipole λ/2, Folded Dipole λ/2, Yagi UDA Folded Dipole (3E), Slot Antenna λ/2 Loop Antenna, Helix Antenna, Combined Collinear Array, Log Periodic Antenna, Rhombus Antenna, Cut Paraboloid Reflector Antenna.
TV & RADAR ENGG
• COLOUR TV TRAINER Model: 2651 Technical Specifications: Standard: CCIR-B-PAL-G, 625 Lines. Channels: 230 2-4 VHF I (VL) 5-12 VHF III (VH) 12-100:BAND IV & V Else: S BAND & HYPER BAND Picture Tube Size: 36cms. RF input impedance: 75 Ohms. Circuit Blocks: System control Circuit, Video IF, Sound Section, Tuner Section Horizontal Oscillator, Horizontal Output, Vertical oscillator, Vertical Output, Video & Chroma Section, Power Supply, AV sections ON Screen Display to set: Volume, Brightness, Contrast Colour, Channel and Band Selection, Tuning Panel control: ON-OFF switch, stand by Menu, Vol +/-, Prog +/-Remote Control Function: Volume, Brightness, Stand by, Colour, Contrast, Channel Selection, Audio Mute, AV Mode, Zoom, Swap, Scan, Child Lock PCB Size: 19□15 inches No. of Faults: more than 40No. of Test Point: 50I.F. Frequency: Video – 38.9 MHz Audio – 33.4 MHz Speaker Size (mm): 50 □ 125Accelerating Potential: 24KV max. Power Supply: 230V □10%, 50HzPower Consumption: 75 Watts (approx.)Fuse: 2A • "SCIENTECH"ISO 9001 Make Black & White TV Trainer Model: 2655Technical Specifications Channels: 230I.F Frequency: Video – 38.9 MHz Audio – 33.4 MHz Tuner Channels: 2 – 4 VHF I (VL) 5 – 12 VHF II (VL) 12-100:BAND IV & V Else: S BAND & HYPER BAND Picture Tube Size: 36 cms Diagonal R.F. input impedance: 75WCircuit Blocks: Tuner section, VIF, IF, Horz./Vert. Osc. & Sync Section, Hroz. Output Section, Vert. Output Section, Sound Section, Video Section, System Control Section, Power Supply, Section ON Screen Display to set: Volume, Brightness, Contrast, Channel & Band Section, Tuning. Panel Control Function: ON-OFF switch, stand by Menu, Vol +/-, Prog +/-. PCB Size (mm): 19 - 15 inches No. of Faults: More than 21 No. of Test Points : 50 Speaker Size (mm): 50 - 125 Accelerating Potential: 9KV max. Operating Voltage: 16V approx. Power Supply: 220V± 10%, 50/60 Hz Power Consumption: 20 Watts (approx)
MICRO PROCESSOR & MICRO CONTROLLER LAB. Equipments

<table>
<tr><td colspan="2">

- NVIS" Make ("Scientech" Group Enterprise) Microcontroller Development Board With Programmer Model: NV 5001Technical Specifications: • Serial communications: RS 232 Port • Baud rate: 9600 bps • MCU: AT89C51/52 • Crystal frequency: 11.0592MHz • Size of Breadboard: 175 x 67 x 8 mm • Tie Points: 1685 • Test Points: 40 • DC Power Supply: +12 V, -12V, +5V & -5V • Programmer unit: Ready to run Programmer will Program AT 89C51/ 52&55 Devices • Interconnection for modules: 2 mm patch cords and FRC cables. General: - Power Supply : 220 V +/- 10%, 50 Hz (60 Hz on request) Power Consumption: 20 VA (Approx) Dimension : W 340 x D 240 X H 105 Weight: 1.8 Kg (Approx) Included Accessories: - • RS 232 serial cable • Mains cord • Operating and Experiment Manual • 2 mm Patch cords • Four 20 Pin FRC cable • One 10 Pin FRC cable
- "NVIS" Make ("Scientech" Group Enterprise)PIC Microcontroller Development board with programmer Model: NV5002Technical Specifications: Serial communication: RS232 Port MCU: PIC16F877ACrystal frequency : 4 MHz Size of Breadboard : 175 ´ 67 ´ 8 mm Tie points: 1685On board DC supply : ± 12V and ± 5 V Test points: 30 Nos. Interconnections : 2 mm patch cords and FRC cables Programmer unit : Ready to run programmer will program PIC Devices Power supply : ± 230V 10%, 50 Hz Fuse : 1A Power consumption : 1VA (approx.) Dimensions : W 420 ´ D 255 ´ H 100 Weight: 1 Kg approx. Included Accessories • RS232 Serial cable • Mains Cord • Software CD • 20 Pin FRC Cable • 10 Pin FRC Cable • 4 wire twisted FRC cable 20 pin • Dust Cover • 2 mm Patch cords • Operating Manual

</td></tr>
<tr><td colspan="2">SOFTWARE, HARDWARE DESCRIPTION LANGUAGES & INCLUDING VLSI DESIGN & DSP LAB</td></tr>
<tr><td>

- Tina pro. software, Matlab Software,
- Computer System
"SCIENTECH" Make
- Model: ST110 "

</td><td>

- Universal Development Platform with FPGA & CPLD Board and Xilinx web pack software CD (Student version)

</td></tr>
<tr><td colspan="2">CONTROL SYSTEM</td></tr>
<tr><td>

- Characteristics of Synchros
- Effect of feedback on DC servomotors
- Determination of transfer function of A-C servomotor
- Temperature controller using PID.

</td><td>

- Formulation of PI & PD controller and study of closed loop responses of 1st and 2nd Order dynamic systems.
- Design problem: Compensating Networks of lead and lag.

</td></tr>
<tr><td colspan="2">ELECTRICAL DRIVE LAB</td></tr>
<tr><td>

- "DC Drive
Input-3 Phase 415 V
Rating-15 a /4 Quadrant Along with motor and suitably mounted in a panel Control box"

</td><td>

- "CROMPTON GREAVES Make AC Drive 1 HP along with 1 HP motor and PC Connection Kit suitably mounted in a panel"
- Thyristor Control D.C Drive with Instrument Setup (Including DC Motor 1 HP)

</td></tr>
<tr><td colspan="2">SWITCHGEAR & PROTECTION</td></tr>
</table>

- "Experimental setup to evaluate the functional Performance of IDMT over current electromechanical type.
- Equipment Offered:-
- M.S. Powder coated M.S. Cubicle with 4' x 2' x 1' Hylam fitted with following equipments fitted on the panel with terminals brought out:-
- 1 Phase IDMT Over Current Relays Electromechanical type 'ALSTOM GEC' Make Model CDG draw out type.
- Digital or Analogue ammeters.
- Control and protection circuit duly wired.
- Phantom Fault with continuously variable auto transformer and current limiter.
- Auxiliary supply.
- Alarm.
- Terminals for all the relays and necessary patch chords required to perform the experiment provided.
- All the other components viz current transformer and phantom creation of faults etc. will be fitted and wired inside the panel and terminals wherever required will be fitted on the panel.
- Earth point provided for prevention of shock hazards.
- "Study and operation of static over current relay.
- Experimental setup to evaluate the functional Performance of over current relay Static type.
- Equipment Offered:-
- M.S. Powder coated M.S. Cubicle with 4' x 2' x 1' Hylam fitted with following equipments fitted on the panel with terminals brought out:-
- 3 Phase Over Current Relay Static type 'RISHAB' Make.
- Digital or Analogue ammeters.
- Control and protection circuit duly wired.
- Phantom Fault with continuously variable auto transformer and current limiter.
- Auxiliary supply.
- Alarm.
- Terminals for all the relays and necessary patch chords required to perform the experiment provided.
- All the other components viz current transformer and phantom creation of faults etc. will be fitted and wired inside the panel and terminals wherever required will be fitted on the panel.
- Earth point provided for prevention of shock hazards.

THEORY OF MACHINE

• Compound gear train • Cam follower apparatus • Epicyclic gear train • Band and block brakes • Internal exapanding brakes	• Locomotive coupling bar mechanism • Oscillating cylinder mechanism • Reciprocating engine mechanism • Simple gear train • With worth quick return mechanism

THEORY OF STRUCTURE LAB.

• Mexwell reciprocal theorem/ simple supported Beam Apparatus working model with dial gauge and magnetic base of weight set complete all accessories with operating manual • Three Hinged Arch apparatus working model with dial gauge and magnetic base of weight set complete all accessories with operating manual	• Film Stripping Device • Unsymmetrical Bending Apparatus : • Deflection of Curved Member Apparatus: • Elastically Coupled Beam Apparatus : • Elastic Properties of Deflection Beam Apparatus : • Redundant Joint Apparatus : • Suspension Bridge model
THERMAL ENGG. & GAS DYNAMICS	
• STEAM TURBINE MODELS - De-Level Turbine (Velocity Compounded) - Pressure & Velocity Compounded Steam Turbine - Air or Steam Pressure Steam Turbine (Pressure Compounded) - Pure Reaction Steam Turbine (Hero's) • Model of Benson Boiler	• STEAM CONDENSOR MODELS - Jet Condenser - Parallel Flow - Jet Condenser - Counter Flow - Surface Condenser - Evaporative Condenser - Ejector Condenser - Air Pre Heater • STEAM TURBINE MODELS - Impulse Turbine Model - Reaction Turbine Model
HEAT & MASS TRANSFER LAB. Equipments	
• Thermal Conductivity of Metal Rod • Heat Transfer in Natural Convection • Heat Transfer in Forced Convection	• Parallel Flow/Counter Flow Heat Exchanger • Thermocouple Calibration Test Rig • Stefan Boltzmann Apparatus
CAE/CAD/CAM LAB. Equipments	
• Hardware -Computer Del • Proe Software	• Catia Software • Ansys Software
MACHINE TOOL LAB. Equipments	
• "Lathe machine ,Size: 5.25 ft • CNC Milling Trainer	• 1 set Hardened bed light duty with 8", 3 jaw chuck and electrical motor of 3 HP with standard accessories."
IC ENGINES & AUTOMOBILES LAB. Equipments	
• Automobile Test Rigs 4 Stroke, Single Cylinder Diesel Engine • 4 Cylinder 4 Stroke Petrol Engine Test Rig. with Rope Brake Dynamometer	• Fuel supply system of petrol Engine • Fuel supply system of Diesel Engine • Cut sectional model of fuel pumps

• Battery Ignition system of automobiles with spark plug, ignition coil, distributor with battery	• Cut model of multi cylinder fuel injection pump • Cut model of rotary fuel pump latest Motorized. • Lubrication system of automobile
RAC LAB. Equipments	
• Air Conditioning Test Rig • Refrigeration Test Rig	• Vapor Compression Test Rig • Vapor Absorption Test Rig
PROJECT AND INDUSTRIAL ENG. LAB. Equipments	
• Projector • Camera	• Stop watch
ADVANCE SURVEY LAB. Equipments	
• "Horizon Electronic Total Station Model HTS-585A Least count : 1” Accuracy : 5” Dist Accuracy : 2MM+2PPMXD With alphanumeric key board 28 Keys Single side & large display on both sides, distance measurement with single prism 2500 meters, Triple Prism 3000 meter. With following accessories:- - Basic Instrument having 100,000 (1Lac) points internal memory for coordinate having 16 Digit display which can even take the input of GPS Coordinates with optical Plummet - Graphic display showing survey data with Zoom-in & zoom out facility. - On Board Software for Data Collect, Layout, Resection, Missing Line Measurements, Remote Elevation, Offset Measurement, Road Design, Area Calculation, Z-Coordinate etc - Built-in Compensator with graphical Display - SD Card slot with 2GB SD Card for extra 2,00,000 point memory with objective dust cap-1 no - Rechargeable double pack battery of NIMH x 2 nos. - Quick Battery Charger -1no (compact Ni-H battery,6V DC, Operation duration 8hrs (Continuous), 16hrs (dormancy), quick battery charger with Power cord, optional external battery (24hrs continuous operation time)" - Plumb bob with line fasteners-1each - Tool Kit, carrying strap-1each - Carrying case with shoulder straps - Data Downloading cable-1no USB Type - Data Downloading cable-1no RS232 Type - HORIZON Desktop Downloading Software Direct Save In DXF, CSV, TEXT Etc. - 2.15m Prism pole with Bubble – 1 nos.	

- Single round prism, target plate, tillable reflector in soft carting case x 1 No. with Heavy wooden Quality Tripod Stand in cover." - "Digital Theodolite (Setl / Seop make) - Complete in Box with accessories and Stand. Accuracy 2 sec. with Aluminum Telescopic Tripod Stand in waterproof cover "	
ENVIRONMENT LAB. Equipments	
• BOD Incubator Bottles • BOD • Digital Colony Counter • Jar Test Apparatus • motorized sieve shaker suitable to carry 10 sieves of 200/300 mm dia Drive by electric motor though a reduction gear, fitter with timer consolidation test apparatus Single gang	• Deluxe pH Meter with Automatic Temp • Digital Turbidity Meter 3½ digit LED display. Range up to 1000 Indian Standard heavy compaction test (modified proctor) • Electric oven Temp Range : Ambient to 2500c chamber size 4555x455x455mm • HORIZON ELECTRONIC THEODOLITE HET-5: • Verniar Theodolite : • Dissolve Oxygen Meter
ENGINEERING DRAWING B.D.D , R.C.C & STEEL	
• Drawing Board • Mini Dropter • Flate Scale Tipe	• Dell computers, (AUTO light) NX ROD Software, NX NOD Soft ware • RCC & Steel Structure model • OHP . Screener , laptop
PROGRAMMING LAB C++	
• Turbo C++, MS-Office	• Wipro Computer 30
PROGRAMMING LAB (B) JAVA/.NET	
• JDK Latest, Visual Studio 2010,	• DELL- Computer 30
OPERATING SYSTEM LAB (UNIX/ LINUX/ WINDOWS)	
• Turbo C++, java, jscript	• DELL- Computer 30
SOFT COMPUTING / DBMS LAB	
• Oracle 10g E.E, matlab latest, my SQL	• DELL- Computer 30
DATA STRUCTURE / ADA LAB	
• Turbo C++, java, javascript	• DELL-Computer 30
COMPUTER NETWORKING/ WEB ENGG. LAB. Equipments	
• Pcket tracer, wire shaek,NS2	• DELL-Computer 30
LANGUAGE LAB/ COMPILER DESIGN LAB. Equipments	

• Turbo C++, java, LEX, YACC	• WIPRO- Computer 30
COMPUTER GRAPHICS & MULTIMEDIA/ISM LAB. Equipments	
• Turbo C++, java, EMC, VM Ware	• DELL-Computer 30
SOFTWARE ENGG. LAB. Equipments	
• Rational Rose, Turbo C++, Smart UML, Smart draw	• DELL-Computer 30
MAJOR/MINOR PROJECT LAB & CISCO LAB. Equipments	
• MY.SQL, Oracle 10g, JDK, Rational Rose, MS SQL, PHP	• WIPRO Computers 30
MINOR PROJECT	
• MATLAB Software	• Dell Computers - 30
MAJOR PROJECT	
• MATLAB Software	• Dell computers - 30
SIMULATION LAB.	
• MATLAB Software and 30 computers	Dell computers - 30
COMPUTER AIDED MACHINE DESIGN LAB	
• MATLAB Software	• Dell computers - 30 computers
INDUSTRIAL TRAINING / INDUSTRIAL PROJECT LAB	
• MATLAB Software	• Dell computers - 30 computers
POWER SYSTEM	
• MATLAB Software and 30 computers • Dell computers • Types of Insulators- • PIN TYPE • SUSPENSION TYPE • STRAIN INSULATORS • SHACKLE INSULATORS • "Types of conductors and Cables - AAC : All Aluminum conductors. - AAA : All Aluminum Alloy conductors - ACSR : Aluminum conductors, Steel-Reinforced - ACAR : Aluminum conductor, Alloy-Reinforced"	• "Types of cables- - Mineral-insulated copper-clad cable - Twinax cable - Flexible cables - Non-metallic sheathed cable Metallic sheathed cable Multi core cable - Shielded cable - Single cable - Twisted pair - Twisting cable - Arresting cable - Bowden cable - Heliax cable - Direct-buried cable - Heavy-lift cable"

<table>
<tr><th colspan="2">ELECTRICAL WORKSHOP</th></tr>
<tr><td>• Types of lamps.
• High pressure mercury vapor lamp
• Sodium vapor lamp
• Incandescent lamp
• Types of conductors And Cables
• AAC : All Aluminum conductors.
• AAAC : All Aluminum Alloy conductors
• ACSR : Aluminum conductors, Steel-Reinforced
• ACAR : Aluminum conductor, Alloy-Reinforced
• Types of cables-
• Mineral-insulated copper-clad cable
• Twinax cable
• Flexible cables</td><td>• Non-metallic sheathed cable Metallic sheathed cable Multi core cable
• Shielded cable
• Single cable
• Twisted pair
• Twisting cable
• Arresting cable
• Bowden cable
• Heliax cable
• Direct-buried cable
• Heavy-lift cable
• Elevator cable
• Different lamp holders
• Winding machine</td></tr>
<tr><th colspan="2">WORKSHOP</th></tr>
<tr><td>• Fitting Shop
1) Bench vise, 2)pipe vice, 3) Hand Hammer, 4)Ball Peen Hammer, 5)Bastard Files, 6)Smooth Files, 7) Super Smooth Files, 8) Square Files, 9) Round Files, 10) Flat Chisel, 11) Cross-Cut Chisel, 12) Triangular Files, 13) Hacksaw, 15) Surface Plate, 16) Center Punch, 17) Try Square, 18) Twist Drill, 19) Taps, 20) Solid Die, Steel Gej, 21) Out Side Caliper, 22) Inside Caliper, 23) Micro Meter, 24) Vernier Calipers, 25) Vernier Height Gej, 26) Filler Gauge, Marking Gauge, De Spanner, 27) Ring Spanner, 28) Die, 29) Steel Scale,30) Screw Driver, 31) Measuring tape, 32) Drill Machine

• Welding Shop
1) Oxy-Acetylene Welding Set,2) Electrode-Rad, 3) Electrode Holder, 4) Cable Lag, 5) Chipping Hammer, 6) Earthling Clamps, 7) Wire Brush, 8) Helmet, 9) Safety Goggles, 10) Hand Gloves, Aprons, 11) Are Welding (Transformer), 12) LPG Burner, 13) Lighter, 14) Holder Capper, 15) Hand Grinder, 16) Carbide Box, 17) Hammer, 18) Arc</td><td>• Carpentry Shop
1) Jack Plane, 2) Mortise Chisel, 3) Socket Chisel, 4) Mallet, 5) Bench Vice-Carpentry Vice, 6) Sash Cramp, 7) Pinner, 8) Try Square, 9) Rip Saw, 10) Tenon Saw, 11) Wheel Brace, 12) Mortise Gauges,13) Wood, Folding Scale, 14) Files, Combination Set, 15) Glass Cutter, 16) Sharpenery Stone, 17) Sine Bar, 18) Grease Gan Pump
• Machine Shop
1) Lathe M/C, 2) Drill M/C, 3) Power Hacksaw machine, 4) Hand grinder machine, 5) Grinding machine
• Foundry Shop
1) Crucible
• Black Smithy Shop
1) Anvil, 2) Swage Black, 3) Flate Tongs, 4) Hot Chisel, 5) Gad Tongs, 6) Furnace, 7) Blowes, 8) Chisels Tongs, 9) Axe, 10) Electrical Grinder, 11) Drill M/C, 12) Hand Gloves, 13) Hammers, 14) Basula</td></tr>
</table>

	Welding Machine, 19) Hose Clamp-House Pipe, 20) Welding Screw	
	• **List of Experimental Setup in each Laboratory/ Workshop**	
	B.Design – List of Equipments	
	• **Photography Lab** ➢ Digital Cameras ➢ Tripods ➢ Lighting Equipment ➢ Backdrops ➢ Reflectors ➢ Photo Editing Software (e.g., Adobe Photoshop, Light room) ➢ Light Meters ➢ Printers • **Laboratory Workshop** ➢ Design Tools (e.g., Sketching Materials, Prototyping Kits) ➢ 3D Printers ➢ Soldering Stations ➢ Hand Tools (e.g., saws, hammers, drills) ➢ Workbenches ➢ Safety Equipment (e.g., goggles, gloves)	• **Classroom Studio** ➢ Drawing Boards ➢ Computers with Design Software (e.g., AutoCAD, Adobe Illustrator) ➢ Projector ➢ Tables and Chairs ➢ Whiteboards and Markers ➢ Model-Making Supplies ➢ Presentation Tools (e.g., flip charts, presentation screens) ➢ Collaborative Workspaces • **Laboratory** ➢ Computer Workstations with Design Software ➢ Digital Tablets (for design sketching) ➢ Materials for Material Testing (e.g., wood, metal, plastic samples) ➢ Measurement Tools (e.g., rulers, calipers) ➢ Prototype Assembly Stations ➢ CAD Software (e.g., Solid Works, Rhino) ➢ Laboratory Safety Equipment (e.g., first-aid kits, fire extinguishers)
	BE - Civil Engineering – List of Experiments	
	BT- 2004 - Basic Civil Engineering & Engineering Mechanics 1. To verify the Law of polygon of forces 2. To verify the Lami's Theorem 3. To verify the law of Moments using Bell Crank lever apparatus 4. To find the forces in the members of Jib Crane 5. To determine the mechanical advantage, Velocity ratio and efficiency of a screw jack. 6. Determination of area of polygon by chain and cross staff survey 7. Measurement of bearings of sides of traverse with prismatic compass and computation of correct included angle. 8. Determination of elevation of various points with dumpy level by collimation plane method and rise & fall method.	

9. Determination of area of irregular figure by using planimeter
10. Test on Bricks
11. Test on cement
12. Test on Concrete

CE302 - Surveying

1. Measurement of distance by ranging and chaining.
2. Determination of area of polygon by chain and cross staff survey.
3. Measurement of bearings of sides of traverse with prismatic compass and computation of correct included angle.
4. Determination of elevation of various points with dumpy level by collimation plane method and rise & fall method.
5. Fixing bench mark with respect to temporary bench mark with dumpy level by fly leveling and check levelling.
6. Measurement of horizontal angles theodolite by method of repetition.
7. Measurement of vertical angles with theodolite.
8. Locating given building by thedolite traversing.
9. Determination of Horizontal distance & RL by Techeometry.
10. Plotting of simple circular curve

CE303 - Building Planning & Architecture

1. Sketches of various building components.
2. Drawing of various building components containing doors, windows ventilators, lintels and arches stairs foundations etc.
3. Drawings for services and interiors of buildings.
4. Drawings containing detailed planning of one/two bed room residential building (common to all student)
5. Drawing of residential and institutional building (Each student performs a different drawing).
6. Use of Auto CAD for preparation of drawings.

CE303 - Strength of Materials

1. Study of Universal testing machine
2. To determine the compressive and tensile strength of materials.
3. To determine the Brinell hardness of materials.
4. To determine the Rockwell hardness of materials
5. To determine the toughness of the materials.
6. To determine the stiffness of the spring.
7. To determine the deflection of beam by the use of deflection-beam apparatus.

CE402 - Construction Technology

1. Tests on Bricks
2. Tests on Aggregates (fine and Coarse)
3. Tests on Cements and concrete
4. Tests on tiles

CE403 - Structural Analysis-I

1. To verify Maxwell- Bett's Law.
2. To determine the flexural rigidity of the beam verify it theoretically
3. To determine the deflection of a pin jointed truss and to verify the results theoretically and graphically
4. To verify strain in an externally loaded beam with the help of a strain gauge indicator and to verify theoretically
5. To study behaviour of different types of columns and find Euler's buckling load for each case
6. To study two hinged arch for the horizontal displacement of the roller end for a given system of loading and to compare the same with those obtained analytically
7. To study the behaviour of a portal frame under different end conditions.
   Apparatus
8. To find the value of flexural rigidity (EI) for a given beam and compare it with theoretical value
9. To determine the deflection of a pin connected truss analytically &graphically and verify the same experimentally
10. To verify the Muller Breslau theorem by using Begg's deformator set

CE404 - Transportation Engineering –I

1. Collection of different types of photographs showing
   - Various bridge types
   - Rail tracks
   - Tunnels
2. Hydraulic design of bridges.
3. Various modern large span bridges: Pre stressed bridges and launching process.
4. Visit of Railway bridges for rehabilitation.
5. Visit of Railway Over Bridges and Under Bridges.

CE405 - Engineering Geology & Remote Sensing

1. Identification of simple rock forming minerals and important ores.
2. Identification of rocks
3. Simple map Exercises.
4. Field Visit/Geological Excursion

CE406 - Software Lab (AutoCAD)

1. Introduction to CAD, Introduction to AutoCAD, Software and hardware requirements, various input and output devices. Getting started with AutoCAD, Setting drawing limits, Units etc.
2. Learning and practice of Draw commands, Modify commands, utility and other commands.
3. Drawing basic Geometric Shapes, Basic Plotting and Editing Tools, Architectural Views & Drafting Views.
4. 3D modelling with AutoCAD
5. Dimensioning, Annotating in AutoCAD with Text & Hatching, Blocks, drafting symbols and Attributes, Layers, Templates & Design Center, Advanced plotting (Layouts, Viewports)
6. Drawing plan, section and elevation of 1 BHK house.

CE5002 – Quantity Surveying & Costing

1. Preparation of detailed estimate.
2. Detailed estimate for services of plumbing and water supply or Electrification work.
3. Detailed estimate for earth work for the road construction or arched culvert.
4. Rate analysis for at least 8 items of construction.
5. Preparation of DPR of Civil Engineering Project.

CE5004 - Construction Material & Techniques

1. Tests on Bricks
2. Tests on Aggregates
3. Tests on Cement
4. Determination of compressive strength of concrete with different cement grades.
5. Determination of workability of concrete by slump test
6. Determination of workability by compacting factor apparatus.
7. Determination of workability by Vee Bee consistometer.
8. Nondestructive testing of concrete by Rebound hammer test
9. Nondestructive testing of concrete by ultrasonic Method.
10. Test for the effect of admixtures on the concrete compressive strength
11. Testing of microconcrete
12. Design of concrete mix.

CE- 6002 - Structural Design-I (RCC)

1. Design Doubly reinforced rectangular & Flanged Beams
2. Design of Cantilever, Simply supported and Continuous slabs
3. Design of Two way slab
4. Design of Column and Footing
5. Design Dog-legged Staircase

CE- 6003 - Geotechnical Engineering – I

1. Determination of Hygroscopic water content
2. Particle - size analysis
3. Determination of Specific gravity of soil particles
4. Determination of plastic limit
5. Determination of liquid limit
6. Determination of shrinkage limit
7. Permeability tests
8. Direct shear test
9. Consolidation test

CE- 6004 Highway Engineering

1. Aggregate Crushing Value Test
2. Determination of aggregate impact value
3. Determination of Los Angeles Abrasion value

4. Determination of California Bearing Ratio values
5. Determination of penetration value of Bitumen
6. Determination of Viscosity of Bituminous Material
7. Determination of softening point of bituminous material
8. Determination of ductility of the bitumen
9. Determination of flash point and fire point of bituminous material
10. Determination of Bitumen content by centrifuge extractor
11. Determination of stripping value of road aggregate
12. Determination of Marshall stability value for Bituminous mix
13. Determination of shape tests on aggregate

CE- 6006 - Design of Hydraulic Structures

1. Elementary profile of gravity dams
2. Stability analysis of gravity dams
3. Estimation of seepage through and below the dam
4. Stability of slopes by slip circle method
5. Design of Ogee spillway
6. Design of canal regulating structures
7. Design of cross drainage works
8. Selection of turbines, draft tubes & surge tanks

CE-7001 - Advance Structural Design –I (RCC)

1. Design of multistory buildings (sway and non-sway buildings), shear walls and other bracing elements.
2. Cantilever and counterfort type of retaining walls
3. Water tanks: underground and on ground tanks (square, rectangular, circular), overhead tanks and intze tanks
4. Silos (rectangular, square and circular)
5. Bunkers (rectangular, square and circular)
6. T-beam
7. Slab bridges for highway as per IRC loading
8. Prestressed concrete members

CE-7002 - Structural Design & Drawing –II (Steel)

1. Plate girder bridges (riveted and welded)
2. Trussed girder bridges for railways and highways (IRC & IRS holding).
3. Bearings for bridges.
4. Circular (with hemispherical and conical bottom), square and rectangular water tanks
5. Chimney (guyed and self-supporting steel stacks)
6. Bunkers
7. Silos
8. Towers

CE-7003 - Modern Construction Technique & Equipment

	1. Study of basic properties and tests on modern materials 2. Collect the specification of various modern construction materials and equipment available in market 3. Prepare and give a presentation on any of the topic content in syllabus. **CE-8001 - Advance Structural Design –II (Steel)** 1. Design of Plate girder bridges 2. Design of Trussed girder bridges 3. Design of Foot-over Bridge 4. Design of Pressed steel tanks 5. Design of Circular with hemispherical bottom 6. Design of Self supporting steel stacks 7. Design of Bunkers 8. Design of Silos **CE-8002 - GEO Tech. Engg. – II** 1. Indian Standard Light Compaction Test/Std. Proctor Test 2. Indian Standard Heavy Compaction Test/Modified Proctor Test 3. Determination of field density by Core Cutter Method 4. Determination of field density by Sand Replacement Method 5. Determination of field density by Water Displacement Method 6. The corifiled Compression Test 7. Triaxial compression test 8. Lab. Vane Shear test 9. CBR Test 10. Demonstration of Plate Load Test SPT & DCPT
	M.TECH. - Civil Engineering (Structure) - List of Experiments
	MVSE-106 (Lab-I Concrete) 1. Testing of cement: Consistency, fineness, setting time, Specific Gravity, Soundness and strength. 2. Testing of fine aggregate: Specific Gravity, sieve analysis and zoning, bulking of fine aggregate, bulk density, silt content. 3. Testing of coarse aggregate: Specific Gravity, sieve analysis, bulk density, flakiness index, elongation index, water absorption & moisture content, soundness of aggregate. 4. Concrete Mix design by ACI 211.1-91 method, 5. Concrete Mix design by IS code method as per 10262- 2007 & 456-2000. 6. Concrete Mix design by DOE method 7. Workability tests – Slump cone test, compaction factor test, strength tests- 8. Compressive strength, flexural strength, split tensile strength. 9. Effects of Admixture - Accelerator, Retarder, Super Plasticizer. 10. Nondestructive Testing - Rebound Hammer test.

MVSE-107 (Lab-II Cad)

1) To develop skill to use software to create 2D and 3D models.
2) Introduction to CAD
3) AutoCAD – Basics 3.1 Starting with AutoCAD 3.2 Layout and sketching 3.3 Drawing environment 3.4 Elements of drawing 3.5 Draw commands 3.6 3D functions
4) 2D – figures for practice using AutoCAD 2013
5) Isometric Drawing for practice using AutoCAD 2013
6) 3-D Solid Figures Using Acad 2013
7) Introduction To Creo 3.0 7.1 Learning Different Operations like Threading, Sweep, Swept blend. 7.2 Modeling 7.3 Assembling

MVSE-206 (Lab-III Instrumentation)

1. Calibration of capacitive transducer for angular displacement.
2. Study and calibration of LVDT transducer for displacement measurement.
3. Study of resistance temperature detector for temperature measurement.
4. Calibration of thermistor for temperature measurement.
5. Calibration of thermocouple for temperature measurement.
6. Calibration of hot wire anemometer for temperature measurement.
7. Calibration of Pressure Gauges
8. Calibration of strain gauge for temperature measurement.
9. Study and calibration of photo and magnetic speed pickups for the measurement of speed
10. Study and calibration of a rotameter for flow measurement.

MVSE-207 (Structural Software Engg.)

1. Analysis and design of cantilever and counterfort retaining wall
2. Analysis and design of multistorey building
3. Analysis and design of flat slab
4. Analysis and design of circular slab
5. Analysis and design of tee- beam bridge
6. Analysis and design of rectangular water tank
7. Analysis and design of circular water tank
8. Analysis and design of truss
9. Analysis and design of deck type plate girder bridges

BE - Computer Science and Engineering - List of Experiments

Semester: 1st - Subject Code: BT205 - Basic Computer Engineering

List of Experiments:

1. Study and practice of Internal & External DOS commands.
2. Study and practice of Basic linux Commands – ls, cp, mv, rm, chmod, kill, ps etc.
3. Study and Practice of MS windows – Folder related operations, My-Computer, window explorer, Control Panel,
4. Creation and editing of Text files using MS- word.

5. Creation and operating of spreadsheet using MS-Excel.
6. Creation and editing power-point slides using MS- power point
7. Creation and manipulation of database table using SQL in MS-Access.
8. WAP to illustrate Arithmetic expressions
9. WAP to illustrate Arrays.
10. WAP to illustrate functions.
11. WAP to illustrate constructor & Destructor
12. WAP to illustrate Object and classes.
13. WAP to illustrate Operator overloading
14. WAP to illustrate Function overloading
15. WAP to illustrate Derived classes & Inheritance
16. WAP to insert and delete and element from the Stack
17. WAP to insert and delete and element from the Queue
18. WAP to insert and delete and element from the Linked List

Semester: 2nd - Subject Code: BT205 - Basic Computer Engineering

List of Experiments:

1) Study and practice of Internal & External DOS commands.
2) Study and practice of Basic linux Commands – ls, cp, mv, rm, chmod, kill, ps etc.
3) Study and Practice of MS windows – Folder related operations, My-Computer, window explorer, Control Panel,
4) Creation and editing of Text files using MS- word. 0, Creation and operating of spreadsheet using MS-Excel.
5) Creation and editing power-point slides using MS- power point
6) Creation and manipulation of database table using SQL in MS-Access.
7) WAP to illustrate Arithmetic expressions
8) WAP to illustrate Arrays., WAP to illustrate functions.
9) WAP to illustrate constructor & Destructor
10) WAP to illustrate Object and classes. w.e.f. July 2018
11) WAP to illustrate Operator overloading
12) WAP to illustrate Function overloading
13) WAP to illustrate Derived classes & Inheritance
14) WAP to insert and delete and element from the Stack
15) WAP to insert and delete and element from the Queue 18. WAP to insert and delete and element from the Linked List

Semester: 3rd - Subject Code: CS303 - Data Structure

Semester: 3rd - Subject Code: CS304 - Digital Systems

List of Experiments:

1) To study and verify the truth tables of various Logic gates
2) To verify the properties of NAND and NOR gates as Universal Building Blocks.
3) Simplification and implementation of a Boolean function

4) Implementation of basic Boolean arithmetic logic circuits such as Half-adder, Half-subtractor, Full adder and Full subtractor
5) Conversion from Binary to Gray and Gray to Binary code.
6) To construct a binary multiplier using combinational logic and to verify with the truth table
7) To verify 2-bit Magnitude comparator for all possible conditions
8) Generation of various logical functions using 8-to-1 multiplexer
9) Construction of a 4-bit ripple counter and study of its operation
10) Operation of IC-555 Timer as Monostable, Astable and Bistable multivibrators
11) To characterize binary ladder type digital to analog (D/A) and analog to digital (A/D) convertor
12) Comparison of various Logic families
13) Design and implementation of various types of flip-flops using JK flip-flop
14) To study natural sampling of continuous time waveforms using different sampling rates
15) To study Pulse-Code modulation with Time-division multiplexing (PCM-TDM)
16) To study generation and detection of BPSK and QPSK waveforms

Semester: 3rd - Subject Code: CS305 - Computer Workshop

Semester: 3rd - Subject Code: CS306 - Internship

Semester: 4th - Subject Code: CS402 - Analysis Design of Algorithm

List of Experiments :

1) Write a program for Iterative and Recursive Binary Search.
2) Write a program for Merge Sort. 3. Write a program for Quick Sort.
3) Write a program for Strassen's Matrix Multiplication.
4) Write a program for optimal merge patterns.
5) Write a program for Huffman coding.
6) Write a program for minimum spanning trees using Kruskal's algorithm.
7) Write a program for minimum spanning trees using Prim's algorithm.
8) Write a program for single sources shortest path algorithm.
9) Write a program for Floye-Warshal algorithm.
10) Write a program for traveling salesman problem.
11) Write a program for Hamiltonian cycle problem.

Semester: 4th - Subject Code: CS403 - Software Engineering

Semester: 4th - Subject Code: CS-404 - Computer Org. & Architecture

List of Experiments:

1) Study of Multiplexer and Demultiplexer
2) Study of Half Adder and Subtractor
3) Study of Full Adder and Subtractor
4) WAP to add two 8 bit numbers and store the result at memory location 2000
5) WAP to multiply two 8 bit numbers stored at memory location 2000 and 2001 and stores the result at memory location 2000 and 2001.
6) WAP to add two 16-bit numbers. Store the result at memory address starting from 2000.

7) WAP which tests if any bit is '0' in a data byte specified at an address 2000. If it is so, 00 would be stored at address 2001 and if not so then FF should be storedat the same address. 8. Assume that 3 bytes of data are stored at consecutive memory addresses of the data memory starting at 2000. Write a program which loads register C with (2000), i.e. with data contained at memory address2000, D with (2001), E with (2002) and A with (2001).
8) Sixteen bytes of data are specified at consecutive data-memory locations starting at 2000. Write a program which increments the value of all sixteen bytes by 01.
9) WAP to add t 10 bytes stored at memory location starting from 3000. Store the result at memory location 300A

Semester: 4th - Subject Code: CS405 - Operating Systems

List of Experiments

1) Write a program to implement FCFS CPU scheduling algorithm.
2) Write a program to implement SJF CPU scheduling algorithm.
3) Write a program to implement Priority CPU Scheduling algorithm.
4) Write a program to implement Round Robin CPU scheduling algorithm.
5) Write a program to compare various CPU Scheduling Algorithms over different Scheduling Criteria.
6) Write a program to implement classical inter process communication problem (producer consumer).
7) Write a program to implement classical inter process communication problem (Reader Writers).
8) Write a program to implement classical inter process communication problem (Dining Philosophers).
9) Write a program to implement & Compare various page replacement algorithm.
10) Write a program to implement & Compare various Disk & Drum scheduling Algorithms
11) Write a program to implement Banker's algorithms.
12) Write a program to implement Remote Procedure Call (RPC).
13) Write a Devices Drivers for any Device or peripheral.

Semester: 4th - Subject Code : CS406 - Programming Practices (Java)

List of Experiments:

1) Installation of J2SDK
2) Write a program to show Scope of Variables
3) Write a program to show Concept of CLASS in JAVA
4) Write a program to show Type Casting in JAVA
5) Write a program to show How Exception Handling is in JAVA
6) Write a Program to show Inheritance
7) Write a program to show Polymorphism 8. Write a program to show Access Specifiers (Public, Private, Protected) in JAVA
8) Write a program to show use and Advantages of CONTRUCTOR
9) Write a program to show Interfacing between two classes
10) Write a program to Add a Class to a Package

11) Write a program to show Life Cycle of a Thread
12) Write a program to demonstrate AWT.
13) Write a program to Hide a Class 15. Write a Program to show Data Base Connectivity Using JAVA
14) Write a Program to show "HELLO JAVA " in Explorer using Applet
15) Write a Program to show Connectivity using JDBC
16) Write a program to demonstrate multithreading using Java. .
17) Write a program to demonstrate applet life cycle.
18) Write a program to demonstrate concept of servlet.

Semester: 5th - Subject Code: CS-5002 - Operating System

List of Experiments:

1) Write a program to implement FCFS CPU scheduling algorithm
2) Write a program to implement SJF CPU scheduling algorithm.
3) Write a program to implement Priority CPU Scheduling algorithm.
4) Write a program to implement Round Robin CPU scheduling algorithm.
5) Write a program to compare various CPU Scheduling Algorithms over different Scheduling criteria.
6) Write a program to implement classical inter process communication problem (producer consumer).
7) Write a program to implement classical inter process communication problem (Reader Writers).
8) Write a program to implement classical inter process communication problem (Dining Philosophers).
9) Write a program to implement & Compare various page replacement algorithm.
10) Write a program to implement & Compare various Disk & Drum scheduling Algorithms
11) Write a program to implement Banker's algorithms.
12) Write a program to implement Remote Procedure Call (RPC).
13) Write a Devices Drivers for any Device or peripheral.

Semester: 5th - Subject Code : 5003 - Database Management System

List of Experiments:

1) Delete duplicate row from the table.
2) Display the alternate row from table. 3. Delete alternate row from table.
3) Update multiple rows in using single update statement.
4) Find the third highest paid and third lowest paid salary.
5) Display the 3rd, 4th, 9th rows from table.
6) Display the ename, which is start with j, k, l or m.
7) Show all employees who were hired the first half of the month.
8) Display the three record in the first row and two records in the second row and one record in the third row in a single sql statements.
9) Write a sql statements for rollback commit and save points.
10) Write a pl/sql for select, insert, update and delete statements.

11) Write a pl/sql block to delete a record. If delete operation is successful return 1 else return
12) Display name, hire date of all employees using cursors.
13) Display details of first 5 highly paid employees using cursors.
14) Write a database trigger which fires if you try to insert, update, or delete after 7'o' clock.

Semester: 5th - Subject Code : 5004 - Computer Graphics and Multimedia

Semester: 5th - Subject Code : CS-5006 - Computer Programming V (Unix/Linux-Lab.)

List of Experiments:

1) Study & use of commands for performing arithmetic operations with Unix/Linux.
2) Create a file called wlcc.txt with some lines and display how many lines, words and characters are present in that file.
3) Append ten more simple lines to the wlcc.txt file created above and split the appended file into 3 parts. What will be the names of these split files? Display the contents of each of these files. How many lines will be there on the last file?
4) Given two files each of which contains names of students. Create a program to display only those names that are found on both the files.
5) Create a program to find out the inode number of any desired file.
6) Study & use of the Command for changing file permissions.
7) Write a pipeline of commands, which displays on the monitor as well as saves the information about the number of users using the system at present on a file called usere.ux.
8) Execute shell commands through vi editor.
9) Installation, Configuration & Customizations of Unix/Linux.
10) Write a shell script that accepts any number of arguments and prints them in the reverse order.
11) Write a shell script to find the smallest of three numbers that are read from the keyboard.
12) Write a shell script that reports the logging in of a specified user within one minute after he/she logs in. The script automatically terminates if the specified user does not login during a specified period of time.
13) Installation of SAMBA, APACHE, TOMCAT.
14) Implementation of DNS, LDAP services, 16. Study & installation of Firewall & Proxy server

Semester:- 6th - Subject Code : CS-6002 - Principles of Programming Languages

List of Experiments:

1) Design of lexical Analyzer using lex/flex.
2) Case study of working of virtual machine.
3) Memory Implementation of 2D and 3D Array.
4) Design a web page in PHP.
5) Implementation of pointers in C++.
6) Write a program in Java to implement exception handling.
7) Write a program in C++ to implement different parameter passing Methods.
8) Write a program in Java to implement concurrent execution of a job using threads.
9) Implement different types of functions used in Prolog.

10) Implement Inheritance, Encapsulation & Polymorphism in C#.

Semester:- 6th - Subject Code : CS-6003 - Software Engineering and Project Management

Semester:- 6th - Subject Code : CS-6004 - Computer Networking

List of Experiments:

1) Study of Different Type of LAN& Network Equipments.
2) Study and Verification of standard Network topologies i.e. Star, Bus, Ring etc.
3) LAN installations and Configurations.
4) Write a program to implement various types of error correcting techniques.
5) Write a program to implement various types of framing methods.
6) Study of Tool Command Language (TCL).
7) Study and Installation of Standard Network Simulator: N.S-2, N.S-3.OpNet,QualNet etc.
8) Study & Installation of ONE (Opportunistic Network Environment) Simulator for High Mobility Networks.
9) Configure 802.11 WLAN.
10) Implement & Simulate various types of routing algorithm.
11) Study & Simulation of MAC Protocols like Aloha, CSMA, CSMA/CD and CSMA/CA using Standard Network Simulators.
12) Study of Application layer protocols- DNS, HTTP, HTTPS, FTP and TelNet

Semester:- 6th - Subject Code : CS-6006 - Minor Project

Semester:- 7th - Subject Code : CS-7001 - Distributed Systems

Semester:- 7th - Subject Code : CS-7002 - Compiler Design

List of Experiments:

1) Develop a lexical analyzer to recognize a few patterns.
2) Write a programme to parse using Brute force technique of Top down parsing.
3) Develop LL (1) parser (Construct parse table also).
4) Develop an operator precedence parser (Construct parse table also)
5) Develop a recursive descent parser
6) Write a program for generating for various intermediate code forms i) Three address code ii) Polish notation Write a program to simulate Heap storage allocation strategy
7) Generate Lexical analyzer using LEX
8) Generate YACC specification for a few syntactic categories.
9) Given any intermediate code form implement code optimization techniques Study of an Object Oriented.

Semester:- 7th - Subject Code : CS-7003 - Web Engineering

List of Experiments:

1) HTML/ DHTML
2) PHP
3) XML
4) Java Script, CGI, PERL

	5) ASP 6) Configuration of Web Servers. **Semester:- 7th - Subject Code : CS-7006 - Project-I** **Semester:- 7th - Subject Code : CS-7007 - Industrial Training** **Semester:- 8th - Subject Code : CS-8001 - Soft Computing** **Semester:- 8th - Subject Code : CS-8002 - Cloud Computing** **List of Experiments:** 1) Installation and configuration of Hadoop/Euceliptus etc. 2) Service deployment & Usage over cloud. 3) Management of cloud resources. 4) Using existing cloud characteristics & Service models. 5) Cloud Security Management. 6) Performance evaluation of services over cloud. **Semester:- 8th - Subject Code : CS-8005 - Project-II** **Semester:- 8th - Subject Code ; CS-8006 - Lab Elective-V**
	M.Tech. – Computer Science & Engineering - List of Experiments
	Semester:- 1st - Subject Code MCSE-106 - Advanced Computer Architecture and Advanced Computer Networking **Semester:- 1st** - Subject Code MCSE-107 - Advanced Data Structures and Object Oriented Programming **Semester**:- 2nd - Subject Code MCSE-206 - Web Technology and e-Commerce, Soft Computing **Semester:- 2nd** - Subject Code MCSE-207 - Advanced Concepts of Databases and System programming **Semester:- 3rd** - Subject Code MCSE-303 - Seminar **Semester:- 3rd** - Subject Code MCSE-304 - Dissertation (Part-I) **Semester:- 4th** - Subject Code MCSE-401 - Dissertation (Part-II)
	BE - Mechanical Engineering – List of Experiments
	Semester – 3rd - Subject Code : ME303 - Materials Technology **List of Experiments :** 1) Metallographic studies – Study of Optical microscope, Optically flat surface preparation, etching reagents, Grain size- ASME no., micro structures, Image analysis, Standard specimen, 2) Carbon, sulphur, Phosphorus determination, Strauhlin's apparatus, Eggert's Method in different samples. 3) Hardness and Hardenability test, Jeremy Cony test. Soft and hard Martensite. 4) Different heat treatment cycles using electric furnace [Programmable preferred], Annealing, Case carburising, Normalising, etc.

5) Gravimetric / Volumetric - chemical analysis of alloying elements like, Cr, Ni, Mn, Si etc.
6) Study of different instrumental method of analysis, spectrophotometers, Differential Scanning calorimeter,
7) Spot test for quick assessment of alloying elements like Mn, Cr, Ni, etc.
8) Experiments / study of Non Destructive Methods, Ultrasonic test, Magnetic particle inspection, Dye penetration test, Eddy current test, Radiography test.
9) Cupping test / formability test for sheet metal

Semester – 3rd - Subject Code : ME304 - Strength of Material

List of Experiments :

1) Standard tensile test on MS and CI test specimen with the help of UTM
2) Direct/ cross Shear test on MS and CI specimen
3) Transverse bending test on wooden beams to obtain modulus of rupture
4) Fatigue test
5) Brinell Hardness tests
6) Vicker hardness test
7) Izod/Charpy test
8) Rockwell Hardness test

Semester – 3rd - Subject Code : ME306 - Thermal Engg Lab.

List of Experiments :

1) To determine volumetric and isothermal efficiencies of a single stage compressor.
2) Study of two stage air compressor with intercooler.
3) Todetermine volumetric and isothermal efficiencies of a two stage compressor.
4) Study of different types of boilers and their classifications.
5) Study of different types of high pressure boilers.
6) To determine the performance of boiler.
7) Temperature measurements, Pyrometers and thermography.
8) Thermocouples, Temperature sensors, study and calibration.
9) Study and experiments on ORSAT apparatus.
10) Experiments on calorific value of different fuels and analysis of exhaust gases.

Semester 4th - Subject Code : ME-404 - Fluid Mechanics

List of Experiments :

1) To determine the local point pressure with the help of pitot tube.
2) To find out the terminal velocity of a spherical body in water.
3) Calibration of Orifice meter and Venturi meter
4) Determination of Cc, Cv, Cd of Orifices
5) Calibration of Nozzle meter and Mouth Piece
6) Reynolds experiment for demonstration of stream lines & turbulent flow
7) Determination of meta-centric height
8) Determination of Friction Factor of a pipe
9) To study the characteristics of a centrifugal pump.

10) Verification of Impulse momentum principle.

Semester 5th - Measurement & Control

List of Experiment :

1) Study of various temperature measuring devices; thermo couple, RTD, gas thermo meters.
2) Measuring velocity of fluid flow by Ventura meter/ orifice meter/ pitot-tube.
3) Measuring torque and power generated by a prime mover by using pony brake dynamometer.
4) Study of various pressure measuring devices like manometers, mercury in glass pressure gauge.
5) To develop a measuring device for fluid level measurement

Semester 5th - Subject Code : ME- 5004 - Dynamics of Machines

List of Experiment :

1) Study of various models of governors.
2) Study of gyroscopic motion and calculation of value of gyroscopic couple.
3) Study of various types of Cams and followers and drawing the cam profile with the help of test kit.
4) Study of various first order vibration systems.
5) To study working of friction clutches using models

SEMESTER 6TH - Subject Code : ME- 6002 Thermal Engineering and gas dynamics

List of Experiments

1. Study of working of some of the high pressure boilers like Lamont or Benson
2. Study of Induced draft/forced and balanced draft by chimney
3. Determination of Calorific value of a fuel
4. Study of different types of steam turbines
5. Determination of efficiencies of condenser
6. Boiler trail to chalk out heat balance sheet
7. Determination of thermal efficiency of steam power plant
8. Determination of Airflow in ducts and pipes.
9. To find out efficiencies of a reciprocating air compressor and study of multistage Compressors
10. Find Out heat transfer area of a parallel flow/counter flow heat exchanger

Subject Code : ME- 6003 Heat and Mass Transfer

List of Experiments

1) Conduction through a rod to determine thermal conductivity of material
2) Forced and free convection over circular cylinder
3) Free convection from extended surfaces
4) Parallel flow and counter flow heat exchanger effectiveness and heat transfer rate
5) Calibration of thermocouple
6) Experimental determination of Stefen-Boltzman constant

Subject Code : ME- 6004 Metal Cutting & Machine Tools

List of Experiment

1. To make a job on lathe machine with all operations like turning, step turning, drilling, tapper turning, thread cutting and knurling.
2. Study of center less grinding machine/ tool and cutter type grinding machine.
3. Study of horizontal/ universal milling machine, diving head and indexing mechanism of it.
4. To cut a spur gear on milling machine using rapid indexing method.
5. Study of radial drilling machine and preparing a job on it.
6. To study a sapping machine to learn about working of quick return mechanism

SEMESTER 7TH - Subject Code : ME- 7001 Mechanical Vibration

List of Practical's

1. Determination of Natural Frequency of Spring Mass Lever System
2. Determination of Natural Frequency of Spring Mass Pulley System
3. Determination of Natural Frequency of Torsional Pendulum and value of damping factor when system is damped.
4. Identification of Principal Modes of Vibration of a two DOF system and demonstration of beats phenomenon.
5. Demonstration of Principle of Dynamic Vibration Absorber.
6. Demonstration of Whirling phenomenon of shaft and determination of critical speed of shaft-disk system.
7. Determination of Natural Frequency of a Cantilever beam setup.
8. Determination of Natural Frequency of a Simply Supported beam setup.
9. Study of Accelerometer.
10. Study of FFT Analyser.

Subject Code : ME- 7002 Automobile Engineering

List of experiments

1. Study of chassis,
2. Suspension,
3. Steering mechanisms, transmission,
4. Gear-box, differential systems,
5. Electrical systems of various light and heavy automotive vehicles;

Subject Code : ME- 7003 OR & Supply Chain

List of experiments

1. Use computer and software to solve problems contained in the syllabus
2. Case studies in SCM

8TH SEMESTER - Subject Code : ME 8002 Refrigeration and Air Conditioning AU

List of experiments

	1. General Study of vapor compression refrigeration system. 2. General Study of Ice Plant 3. General Study and working of cold storage 4. General Study Trane Air Condition (Package Type). 5. General Study of Electrolux Refrigeration 6. General Study One tone thermax refrigeration unit. 7. General Study of Water cooler 8. General Study of Psychrometers (Absorption type) 9. General Study of Leak Detectors (Halide Torch). 10. General Study and working of Gas charging Rig. 11. General Study of window Air Conditioner. 12. General Study and working of Vapor compression Air conditioning Test rig. 13. Experimentation on Cold Storage of Calculate COP & Heat Loss. 14. Experimentation on Vapor compression Air Conditioning test rig. **15.** Changing of Refrigerant by using Gas Charging Kit	
	• Computing Facilities	Available
	- Number and configuration of System	302 PCs
	- Total number of system connected by LAN	302 PCs
	- Total number of system connected by WAN	All
	- Major software packages available	• System Software = 5 • Application Software = 40 • Campus Agreement with Microsoft • Tina Software • Open Source Softwares
	- Special purpose facilities available (Conduct of online Meetings/Webinars/Workshops etc.)	CISCO Networking Academy, INTEL Intelligent Lab, Microsoft Innovation Center
	- Facilities for conduct of classes/courses in online mode (Theory & Practical)	Available
	• Innovation Cell	Available
	• Social Media Cell	Available
	• Compliance of the National Academic Depository (NAD), applicable to PGCM/ PGDM Institutions and University Departments	Not Applicable
	• Internet Bandwidth	64 Mbps
	• List of facilities available	• Fees to be charged, Reservation policy, Admission policy and Document retention policy are uploaded in Institute's Website • Courses/Approved Intake displayed at the entrance of the Institute

		• Smart Class Room (Each Department) • Medical and Counselling • Notice Boards • First Aid • Safety Provisions • Telephone & FAX • CCTV Security • Availability of quality sanitary napkins through sanitary napkins vending machines and ensuring safe and environment friendly disposal of used sanitary napkin through sanitary napkin incinerator • Sports Facility • Backup Electrical Supply • Digital Payment for all financial transactions as per MHRD Directives (like POS machine, Bhim Apps etc.) • Provision to watch MOOCS Courses through SWAYAM • Transport Facility • Implementation of Security Measures • Rain Water Harvesting • Waste Management and Environment improve-ment measure to ensure a sustainable green campus • Sanitary and Drainage Connection • Sewage Disposal System • Parking Facilities • All weather approach road • Barrier free environment • Safety provisions • Fire, Earthquakes and other calamities
	• Games and Sports Facilities	Available
	• Teaching Learning Process	Innovative Pedagogy Practice Lecture (IPPL)
	• **For each Post Graduate Courses give the following:**	
	• Title of the Course	**Master of Technology (M.Tech.) in** 1. Computer Science & Engineering 2. Structural Engineering

		3. Mechanical Engineering
	• Curricula and Syllabi	https://www.rgpv.ac.in/Uni/frm_ViewScheme.aspx
	• Laboratory facilities exclusive to the Post Graduate Course	Research Lab, Delnet Subscription

- **Special Purpose**

Name of lab	No of systems	Configuration	Installed software	Other Details
PG Lab & Project Lab & Research Lab	30	Dell Optiplex 3010 i3 CPU, 3.3 GHz,4 GB / 8 GB RAM, 500/250 GB HDD , key board ,mouse, 18" TFT	Vmware, Matlab, Turbo C ,Java Netbeans MS office, etc.	Delnet Delnet User Id & password ID: mpsaiti Password:sait5533

- Software, all design tools in case

S.No.	Particulars	Requirements as per AICTE Norms	Availability	Shortfall, if any
1	System Software	5	5	No
2	Application Software	40	40	No

Information Regarding Licensed Software Purchased in the Institute

S. No.	Name of Software	Version	No. of Users	License No.	Cost in Rs.	Remarks
1	Visual Studio	Latest	30	Campus Agreement with Microsoft	1,13,256	Campus agreement with Microsoft
2	Project Server	Latest	30			
3	SQL Server STD	Latest	30			
4	Oracle EE	Latest	30			
5	Microsoft Office	Latest	30			
6	My SQL	Latest	30			
7	Microsoft Windows XP	Latest	30			
8	Microsoft Windows Server 2	Latest	30			
9	Tina Software	Latest	30	S.No. 100972	1,17,460	Scientech Tech. Pvt Ltd.
10	Linux	Latest	60			
11	Autocad	Latest	30			

		12	Staad Pro	Latest	5		4,61,905	Concept Tele Systems
		13	IBM Rational Seed Software	Latest	30		1,80,000	Mapleton Infotech Pvt. Let
		14	Microsoft IT Academy	Latest	1		6,93,82	India Cyberlearning Pvt.Let

Information regarding Licensed Software Purchased in the Institution

S. No.	Name of Software	Version	No. of Users	License No.	Cost in Rs.	Remarks
1	Open Office	3.3	30		Open Source Software	
2	AMMP	Latest	30			
3	Art of Illusion	2.8.1	30			
4	Chrimson Editor	3.6	30			
5	Con TEXT	0.98.6	30			
6	Cooktop	2.500Beta	30			
7	DIA	0.97.1	30			
8	gCAD3D	1.42	30			
9	GNS	3	30			
10	Jedit	Latest	30			
11	MVT	5.0.1	30			
12	Open VPL	2.1.1	30			
13	PET	Latest	30			
14	Blender	2.49	30			
15	JDK	Latest	30			
16	Ubuntu	Latest	30			
17	R	2.14.0	30			
18	WxMaxima	Latest	30			
19	Scilab	5.3.3	30			
20	Nasm	Latest	30			
21	Binutils	2.14	30			
22	Magic	7.5	30			
23	SDCC	Latest	30			
24	BRL-CAD	7.14.8	30			
25	KICAD	2011.11.27.1	30			

16. Enrollment and placement details of students in the last 3 years

Enrollment :

Courses	2022-23	2023-24	2024-25
B.Tech.-CSE	156	135	189
B.Tech.-CE	10	5	8
B.Tech.-EC	20	10	9
B.Tech.-EX	5	4	13
B.Tech.-ME	8	4	10
B.Tech.CSE-AIML	7	27	29
B.Des.-Des.	16	25	14
M.Tech.-CSE	13	6	14
M.Tech.-ME	6	4	2
M.Tech.-CE	17	13	14
MBA (FT)	157	116	54
MBA-Hosp. Admn.	51	50	52

Placement :

Courses	2022-23	2023-24	2024-25
B.Tech.	64	45	---

17. List of Research Projects/ Consultancy Works

- Number of Projects carried out, funding agency, Grant received

3 STTP's (grant received) and 3 FDP's Proposal has been submitted to MPCST, Bhopal and AICTE, New Delhi respectively

- **Publications (if any) out of research in last three years out of masters projects**

1. Authors: Kusumlata sachan, Assi. Prof. Manisha Lokhande
Title: An Approach to detect Gray-hole Attacks on Mobile ad-hoc Networks.
Journal /Conference: Journal
Year: July 2016
Publisher: IJCA, vol. 146(14),

2. Authors: Kusumlata sachan, Assi. Prof. Manisha Lokhande
Title: An Approach to detect Gray-hole Attacks on Mobile ad-hoc Networks.
Journal /Conference: Conference
Year: 2016
Publisher: In Proceeding of IEEE conference on 978-1-5090-5515-9/16 ©2016.

3. Authors: Kusumlata sachan, Assi. Prof. Manisha Lokhande
Title: , An Approach to prevent Gray-hole Attacks on Mobile ad-hoc Networks.
Journal /Conference: Conference
Year: 2016
Publisher: In Proceeding of IEEE conference on 978-1-5090-5515-9/16 ©2016.

4. Authors: Sumit Sharma, Manisha Lokhande

	Title: Friend Recommendation System for Social Networking sites using Cloud Computing Environment Journal /Conference: Journal Year: 2017 Publisher: IJRISE 5. Authors: Vikram Labana , Mr Prasanna Kapse Title: Hybrid News Recommendation Policy using JF-IDF and Similarity weight Index. Journal /Conference: Journal Year: 2018 Publisher: IJSHRE 6. Authors: Abhipray Vajpeyee, Dr. Durgesh Kumar Mishra Title: A Trust Based Algorithm for Replication Attack in Static Wireless Sensor Networks Journal /Conference: Conference Year: 2017 Publisher: ICAEASM 7. Authors: Bhagyashree Shimpi, Sameeksha Shrivastava Title: A modified algorithm and protocol for Replication attack and prevention for Wireless sensor Networks Journal /Conference: International Conference on ICT in Business Industry & Government (ICTBIG) Year: 2016 Publisher: IEEE Xplore **8.** Authors: Gayatri Bendale, Sameeksha Shrivastava Title: An improved blackhole attack detection and prevention method for Wireless ad-hoc Network Journal /Conference: International Conference on ICT in Business Industry & Government (ICTBIG) Year: 2016 Publisher: IEEE Xplore 9. Authors: Prativesh Pawar and Rashid Sheikh Title: Implementation of secure authentication scheme and access control in cloud computing Journal /Conference: International Conference on ICT in Business Industry & Government (ICTBIG) Year: 2016 Publisher: IEEE Xplore 10.Author: Sona Pateria, Sandeep Mathariya Title: A Survey Paper on WSN Based Green Computing Journal/Conference: Journal Year: 2018 Publication: IJSHR 11. Author: Sona Pateria, Sandeep Mathariya Title: Green Wireless Sensor Network Using Grid based routing with WCA Journal/Conference: Journal Year: 2018

	Publication: IJCTM 12. Author: Sandeep Mathariya Ramankit Billore Title: A Survey on PAPR reduction in IoT based Systems Journal/Conference: Journal Year: 2019 Publication: IJCTM 13. Author: Sandeep Mathariya Ramankit Billore Title:PAPR Reduction for OFDM based IoT systems using Modified Selective Mapping. Journal/Conference: Journal Year: 2019 Publication: IJCTM 14. Author: Sandeep Mathariya, Anjali yadav Title: A Security Survey of Cloud based Applications Journal/Conference: Journal Year: 2019 Publication: IJCTM 15. Title: Implementation of security architecture in Cloud computing using ECC and BLOWFISH algorithm Journal/Conference: Journal Year: 2019 Publication: IJCTM 16. Authors: Kamlesh Ahuja, Dr Dugesh Kumar Mishra, Ms Sarika Jain Title: A survey Paper on a Compact Data Structure Based Techniques for Mining Frequent closed Item Set. Journal /Conference: ACM-WIR2016 Year: 2016 Publisher: ACM PUBLICATION 17. Authors: Kamlesh Ahuja, Dr Dugesh Kumar Mishra, Ms Sarika Jain Title: Data Elimination Based Technique for Mining Frequent Closed Item Set. Journal /Conference: International Conference on ICT in Business Industry & Government (ICTBIG) Year: 2016 Publisher: IEEE Xplore 18.Authors: Kamlesh Ahuja, Dr Dugesh Kumar Mishra, Ms Sarika Jain Title: A Compact Data Structure Based Technique for Mining Frequent Closed Item Set. Journal /Conference: International Conference on ICT in Business Industry & Government (ICTBIG) Year: 2016 Publisher: IEEE Xplore 19. Authors: Kamlesh Ahuja, Dr Dugesh Kumar Mishra, Navneet Sharma, Ram Krishan Vyas Title: Investigation of Privacy-Preserving Data Models and Contributions.

Journal /Conference: International Conference on" Computing for Sustainable Global Development" Conference
Year: 2019
Publisher: INDIACom

- **Industry Linkage**

S. No.	Name of Person	Name of Industry	Role
1.	Mr. Ramesh Chandak	Microsoft	MIC Steering Committee Member
2.	Mr. Bhawesh Kashyap	TCS	IIC Industry representative
3.	Mr. K L Raju	Logic Designer	Lecture on Industry 4.0
4.	Ms. Jyoti Rajpal, Mr. Sarjerao Barange, Mr. Vaibhav Sharma	Ypsilon	Yearly Industrial training
5.	Mr. K. K. Rathi	Microsoft	Azure training
6.	Mr. Prabhjot, Mr. Keyur and Mr. Romil	Microsoft	Azure Workshop
7.	Dr. I. L. Narsimha Rao	CDAC	Cyber Security Workshop
8.	Mr. Abhijeet Phatak,	Impetus	App Development
9.	Mr. Shekhar Sahasrabudhe	Persistent	Workshop
10.	Mr. Avik Bose	IBM	STTP expert
11.	Dr. Sudhakar Challapalli	Rasky Software Solutions	STTP expert

- MoUs with Industries (minimum 3)

1. The Market Journal
2. Abhista Enterprises
3. DMRK Infocad
4. Engineer Master Solutions Pvt. Ltd.
5. Trapti Electricals
6. Code Solutions
7. Bioline India
8. Great Lakes-Learning Services P. Ltd.
9. KTRC Engineering
10. Indore Smart City Development Ltd.
11. Gray Quest Education Finance P. Ltd.
12. SGSITS, Indore
13. AVM Pictures
14. BOSCH Limited
15. ANTARAGNI, IIT Kanpur
16. MSME Technology Center, Indore

18.	**LoA and subsequent EoA till the current Academic Yr.**	Attached

अखिल भारतीय तकनीकी शिक्षा परिषद्
ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
(भारत सरकार का एक सांविधिक निकाए) (A STATUTORY BODY OF THE GOVT. OF INDIA)

LETTER OF APPROVAL

F.No : 06/01/MP-ENGG/2009/05
29/06/2009

To

The Principal Secretary
Manpower Planning Dept,
Govt. of Madhya Pradesh,
Vallabh Bhavan, Bhopal – 462 004

Sub: AICTE approval to **Sri Aurbindo Institute of Medical Sciences, Indore-Ujjain Highway Near MR-10, Gram Bhavarasla, Indore- 453 111** for establishment of **Sri Aurobindo Institute of Technology, Indore-Ujjain Highway, Near MR-10, Gram Bhavarasla, Indore- 453 111.**

Sir,

As per the Regulations notified by the Council vide F. No. 37-3/Legal/2004 dated 14TH September 2006 and norms, standards, procedures and conditions prescribed by the Council from time to time and based on the recommendations of the Expert Committee and EC Sub Committee, I am directed to convey the approval of the Council to **Sri Aurbindo Institute of Medical Sciences, Indore-Ujjain Highway Near MR-10, Gram Bhavarasla, Indore- 453 111** for establishment of **Sri Aurobindo Institute of Technology, Indore-Ujjain Highway, Near MR-10, Gram Bhavarasla, Indore- 453 111** for conduct of the following courses and intake:

S.No.	Name of the Course	Intake	Entry Level	Duration
1.	Electronics & Communication Engineering	60	10+2	4 yrs
2.	Computer Science & Engineering	60	10+2	4 yrs
3.	Electrical & Electronics Engineering	60	10+2	4 yrs
4.	Civil Engineering	60	10+2	4 yrs
	Total	240		

Note:- The approval is valid for two years from the date of issue of this letter for getting affiliation with respective university and fulfilling State Govt. requirements of admission.

The **Society/Trust/Institution** shall obtain necessary affiliation/ permission from the concerned affiliating University as per the prescribed schedule of the University/ Admission Authority etc. The Applicant Society/Trust/Institution shall send information about commencement of the above courses to AICTE. Incase the Institution could not commence the above mentioned courses for whatsoever reasons during the two years period from the date of issue of this letter, the approval becomes invalid and the applicant society/trust shall have to make fresh application to AICTE for grant of fresh approval.

The approval is further subject to fulfillment of following conditions.

1. That the management shall provide adequate funds for development of land and building and for providing related infrastructural, instructional and other facilities as per Council's norms and standards laid down by the Council from time to time and for meeting recurring expenditure.
2. (a) That the admissions shall be made only after adequate infrastructure and all other facilities are provided as per norms and guidelines of the AICTE.
   (b) That the admissions shall be made in accordance with the regulations notified by the Council from time to time.
   (c) That the admissions to the courses shall be made only after the affiliating University /State Board has given permission to start the course.
   (d) That the Institution shall not allow closure of the Institution or discontinuation of the course(s) or start any new course (s) or alter intake capacity of seats without the prior approval of the Council.
   (e) That no excess admissions shall be made by the Institution over and above the approved intake under any circumstances.

29-6-2009

7वाँ तल, चन्द्रलोक भवन, जनपथ नई दिल्ली–110001
7th Floor, Chander Lok Building, Janpath, New Delhi-110001
Phone : 011-23724151-57 Website : www.aicte.ernet.in

(f) That the institutions shall not have any collaborative arrangements with any Indian and/or Foreign Universities for conduct of technical courses other than those approved by AICTE without obtaining prior approval from AICTE.

(g) That the Institution shall not allow conduct of any unapproved course whether technical or non technical in the premises of AICTE approved institution/campus and /or in the name of the Institution without prior permission from AICTE.

3. That the institution shall operate only from the approved location, and that the institution shall not open any off campus study centers / extension centers directly or in collaboration with any other institution / university / organization for the purpose of imparting technical education without obtaining prior approval from the AICTE.

4. That the tuition and other fees shall be charged as prescribed by the Competent Authority within the overall criteria prescribed by the Council from time to time. No capitation fee shall be charged from the students/guardians of students in any form.

5. That the accounts of the Institution shall be audited annually by a certified Chartered Accountant and shall be open for inspection by the Council or any body or person authorized by it.

6. That the Director/Principal and the teaching and other staff shall be selected according to procedures, qualifications and experience prescribed by the Council from time to time and pay scales are paid as per the norms prescribed by the Council for time to time.

7. (a) That the institution shall furnish requisite returns and reports as desired by AICTE in order to ensure proper maintenance of administrative and academic standards.

(b) That the technical institution shall publish an information booklet before commencement of the academic year giving details regarding the institution and courses/programmes being conducted and details of infrastructural facilities including faculty etc. in the form of mandatory disclosure. The information booklet may be made available to the stakeholders of the technical education on cost basis. The mandatory disclosure information shall be housed in the Institution Web-Site. The information shall be revised every year with updated information about all aspects of the institution.

(c) That it shall be mandatory for the technical institution to maintain a web-site providing the prescribed information. The website information must be continuously updated as and when changes take place.

(d) That a compliance report in the prescribed format along with mandatory disclosure on fulfillment of the above conditions, shall be submitted each year by the Institution within the time limit prescribed by the Council from time to time.

(e) That if Technical Institution fails to disclose the information or suppress and/or misrepresent the information, appropriate action could be initiated including withdrawal of AICTE approval.

8. That all the laboratories, workshops etc. shall be equipped as per the syllabi of the concerned affiliating University and shall be in operational condition before making admissions.

9. That a library shall be established with adequate number of titles, books, journals (both Indian & Foreign) etc as per AICTE norms.

10. That a computer center with adequate number of terminals, Printers, legal software etc. shall be established as per AICTE norms.

11. That a Joint FDR is required to be created for an amount and prescribed by the Council from time to time.

12. That AICTE may carry out random inspections round the year any time for verifying the status of the Institutions to ensure maintenance of norms and standards.

13. That AICTE may also conduct inspections with or without notifying the dates to verify specific complaints of mis-representation, violation of norms and standards, mal-practices etc.

14. That the Institution by virtue of the approval given by Council shall not automatically become claimant to any grant-in-aid from the Central or State Government.

15. That the institution shall take appropriate measures for prevention of ragging in any form, in the light of directions of Supreme Court of India in Writ Petition No. (C) 656/1998. In case of failure to prevent the instances of ragging by the institutions, the Council shall take appropriate action including withdrawal of approval.

(3)

16. That the institution shall provide the following facilities for the physically challenged persons.

a. Class rooms, toilets and hostels to be made accessible to wheel chair users
b. Resource room for visually impaired students.
c. Accessible Library
d. Counseling Centre for disabled students
e. Facility of Sign Language Interpreter
f. All students needing assistive devices to be provided such devices

17. That in the event of a student/candidate withdrawing before the starting of the course, the wait listed candidates should be given admission against the vacant seat. The entire fee collected from the student, after a deduction of the processing of not more than Rs. 1000/- (Rupees One thousand only) shall be refunded and returned by the Institution/University to the student/candidate withdrawing from the programme. It would not be permissible for institutions and Universities to retain the School/Institution Leaving Certificate in original to force retention of admitted students (see Public Notice AICTE/DPG/03(01)/2008).

18. That the Management shall strictly follow further conditions as may be specified by the Council from time to time.

19. In the event of non-compliance by the **Aurobindo Institute of Management and Science, Indore-Ujjain Highway, Near MR-10, Gram Bhavarasla, Indore-453111, Madhya Pradesh** with regard to guidelines, norms and conditions prescribed from time to time the Council shall be free to take measures for withdrawal of its approval or recognition, without consideration of any related issues and that all liabilities arising out of such withdrawal would solely be that of the **Aurobindo Institute of Management and Science, Indore-Ujjain Highway, Near MR-10, Gram Bhavarasla, Indore-453111, Madhya Pradesh.**

Yours faithfully,

(Dr. K.B. Thakur)
Director (M&T)

Copy to:

1. **The Director of Technical Education**
   Govt. of Madhya Pradesh, Satpura Bhawan,
   4th Floor, Bhopal-302 018 Madhya Pradesh

   (He is requested to kindly monitor the compliance with the conditions as laid down in this approval letter and keep the AICTE informed of the same.)

2. **The Regional Officer,**
   AICTE Central Regional Office
   Tagore Hostel No:- 2, Shamla Hills,
   Bhopal-462 002(Madhya Pradesh)

3. **The Principal/Director**
   Aurobindo Institute of Management and Science,
   Indore-Ujjain Highway, Near MR-10, Gram Bhavarasla,
   Indore-453111, Madhya Pradesh.

4. **The President/Chairman**
   Sri Aurobindo Institute of Medical Science,
   Indore-Ujjain Highway, Near MR-10,
   Gram Bhavarasla, Indore-453111

   (The institute is required to submit Compliance report as per AICTE norms on or before 31st August, 2009)

5. **The Registrar (Concerned University)**

6. **Guard files** (AICTE).

All India Council for Technical Education

(A Statutory body under Ministry of Education, Govt. of India)

Nelson Mandela Marg,Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org

APPROVAL PROCESS 2024-25

Extension of Approval (EoA)

F.No. Central/1-43658489948/2024/EOA

Date of Approval: 20-May-2024

To,

The Principal Secretary
(Technical Education) Vallabh Bhawan,
1st floor. R .No. 113 Mantralaya,
Bhopal-462004

Sub: Extension of Approval for the Academic Year 2024-25

Ref: Online application of the Institution submitted for Extension of Approval for the Academic Year 2024-25

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Education), Powers delegated in AICTE ACT 1987, (No 52 of 1987) chapter II - u/s 2(g) to regulate Technical and subsequent Regulations of AICTE, I am directed to convey the approval to:

Permanent Id	1-2943641	**Application Id**	1-43658489948
Name of the Institution	SRI AUROBINDO INSTITUTE OF TECHNOLOGY, INDORE	**Name of the Society/Trust**	SRI AUROBINDO INSTITUTE OF MANAGEMENT SCIENCE & TECHNOLOGY
Institution Address	INDORE-UJJAIN HIGHWAY, NEAR MR-10 CROSSING, GRAM BHAVARASLA, INDORE, INDORE, Madhya Pradesh, 453111	**Society/Trust Address**	SRI AUROBINDO INSTITUTE OF PHARMACY, INDORE-UJJAIN STATE HIGHWAY, NEAR MR 10 CROSSING, GRAM BHANWRASLA, INDORE-453555. MADHYA PRADESH.,BHOPAL,INDORE,Madhya Pradesh,462016
Institution Type	Private-Self Financing	**Region**	Central
Year of Establishment	2009		

To conduct following Programs/Courses with the Intake indicated below for the Academic Year 2024-25

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2023-24	Intake Approved for 2024-25	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
UNDER GRADUATE	DESIGN	DESIGN	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal	60	60	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	CIVIL ENGINEERING	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal	30	30	No	No

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2023-24	Intake Approved for 2024-25	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal	180	180	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal	30	30	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal	30	30	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRONICS & COMMUNICATION ENGG	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal	30	30	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal	30	30	No	No
POST GRADUATE	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal	12	12	No	No
POST GRADUATE	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE & ENGINEERING	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal	18	18	No	No
POST GRADUATE	ENGINEERING AND TECHNOLOGY	STRUCTURAL ENGINEERING	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal	18	18	No	No
POST GRADUATE	MANAGEMENT	MBA	Devi Ahilya Vishwavidyalaya, Indore	180	180	No	No
POST GRADUATE	MANAGEMENT	MBA(HOSPITAL ADMINISTRATION)	Devi Ahilya Vishwavidyalaya, Indore	60	60	No	No

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2023-24	Intake Approved for 2024-25	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
POST GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATION (VLSI DESIGN)	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal	18	18	No	No

All AICTE approved Institutions are empowered to nurture ecosystems for Skilling (through Vocational courses) via making effective use of existing infrastructure facilities and human resources.

It is mandatory to comply with all the essential requirements as given in APH 2024-25 to 2027 (Chapter-VI)

Important Instructions

1. As per mandatory Disclosure of APH 2024-27(Annexure-18, page180) Institutions must disclose the following information submitted to Council at the Prominent location on its website.
   i. Department wise availability of Infrastructure along with approved courses and intake approved by the Council.
   ii. Faculty details: Department wise: Name& Designation of the faculty members/teaching staff along with their qualification, tenure of service in your organization, total experience, Institution should also disclose Student Faculty Ratio, Cadre Ratio.
   iii. Additionally Audited Financial Statements for last 3 Financial years.
2. Reservation Policy of the Central Government (Including EWS) / Respective State Government/ UT as the case shall be applicable to all the Programmes. The concerned State Government/ UT Admission authority shall decide Modalities of Admission.
3. The Institution offering courses earlier in the Regular Shift, First Shift, Second Shift/Part Time are now amalgamated as total intake and shall have to fulfil all facilities such as Infrastructure, Faculty and other requirements as per the norms specified in the Approval Process Handbook 2024-25 to 2027 for the Total Approved Intake.
4. In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the **Executive Council / General Council as available on the record of AICTE shall be final and binding.**
5. All AICTE institutions are highly encouraged to get NBA/NAAC accreditation. All eligible AICTE institutions are thoroughly encouraged to participate in NIRF ranking process.
6. Deemed to be University: Institutions Deemed to be Universities (Running Technical Education Programmes), it is mandatory to have AICTE approval from the Academic Year 2018-19 in compliance of the Hon'ble Supreme Court Order dated 03-11-2017 passed in CA No.17869- 17870 /2017.
7. AICTE Approved Institutes are encouraged to utilize SWAYAM PLUS Courses up-to 40%
8. Internship is mandatory for all admitted students.
9. AICTE Approved Institutes are encouraged to make efficient use of the flagship schemes like:
   a. Parakh: Student Gap analysis portal bases services.
   b. Students Scholarship schemes like Pragati, Saksham, Swanath, ADF, etc.
   c. Course in Indian Languages.
   d. ATAL FDPs: Faculty training for Emerging areas and cutting edge Technologies.
   e. Augmenting Utilization of Research Assets (AURA).
   f. Smart India Hackathon: World's largest Open Innovation Platform.

Prof.Rajive Kumar
Member Secretary, AICTE

Copy to:

1. **The Director Of Technical Education**, Madhya Pradesh**
2. **The Registrar**,**
   Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
3. **The Principal / Director,**
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