MANDATORY DISCLOSURE OF THE INSTITUTE
DRIEMS POLYTECHNIC

1. Name of the Institution : DRIEMS Polytechnic

- Address : At- Kairapari, Kotsahi, Tangi, Cuttack
Telephone/ Mobile :- 0671-2595062 / 9438065742,
E-Mail : driemsdiplomawing@gmail.com

2. Name and address of the Trust/ Society/ Company and the Trustees
DHANESWAR RATH INSTITUTE OF ENGINEERING & MEDICAL SCIENCES

- Address : At-Kairapari, Po-Kotsahi, Tangi, Cuttack-754022
Telephone : 0671-2595062 , Mobile- 9437025755,
E-Mail: driemscuttack@rediffmail.com

3. Name and Address of the Principal : Prof. Tapaswini Sahu

- Address : DRIEMS Polytechnic, Tangi, Cuttack-754022
Telephone : 0671-2595062, Mobile-7735504685,
E-Mail : driemsdiploma@driems.ac.in

4. Name of the affiliating University :

SCTE&VT, Odisha, Bhubaneswar

5. Governance

- Members of the Board and their brief background

		Position in Governing Body.
1	Mr. P.C. Rath, Chairman, DRIEMS	Chairman
2	Mr. Durga Prasad Rath, Managing Director, DRIEMS	Member
3.	Mr. Balaram Kar, Director/Secretary, DRIEMS	Member
4.	Mr. Pradipta Ch. Rath, Director	Member
5.	Mr. Shantanu Kumar Satpathy, Director	Member
6.	Representative of SCTE&VT, BBSR	Member
7.	Representative DTE&T,Orissa, Cuttack	Member
8.	Mr. Rakesh Ku. Mohanty, Asst. Prof. ME/Faculty Representative	Member
9.	Mr. Saumendu Das, HoD, Civil / Faculty Representative	Member
10.	Er. B. C. Mohanty, Industrialist	Member
11.	Prof. Tapaswini Sahu, Principal	Member Secretary

- Members of Academic Advisory Body
- Frequently of the Board Meeting and Academic Advisory Body

- Organizational chart and processes
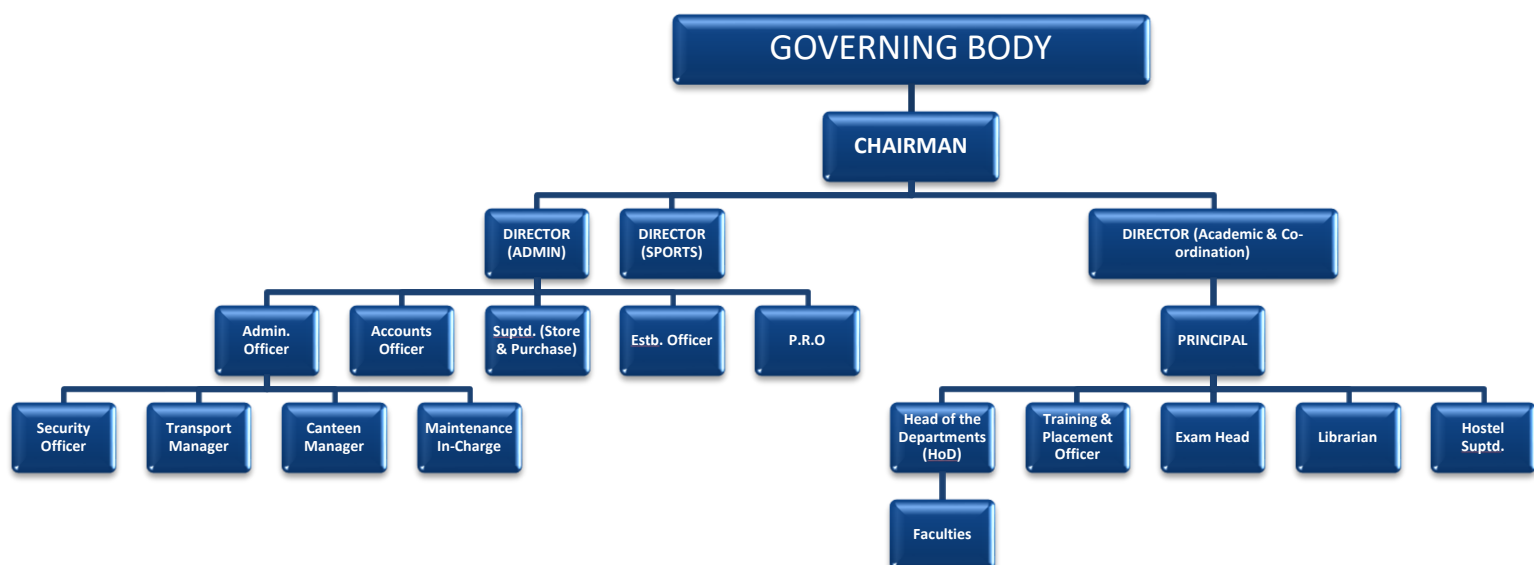
- Nature and Extent of involvement of Faculty and students in academic affairs/improvements.

- Mechanism/ Norms and Procedure for democratic/ good Governance

- Student Feedback on Institutional Governance/ Faculty performance

  Refer to Institute website

- Grievance Redressal mechanism for Faculty, staff and students :

  Refer to Institute website

- Establishment of Anti Ragging Committee:

ANTI-RAGGING COMMITTEE(ARC)

RECONSITUTION OF ANTI-RAGGING COMMITTEE(ARC)

1.	Principal, DRIEMS Polytechnic	Chairman
2.	OIC Student Welfare & HoD Civil Engg.	Member Convenor
3.	B. D. O., Tangi-Choudwar	Member
4.	Inspector-In-Charge, Tangi Police Station, Tangi	Member
5.	HoD, Mechanical Engg.	Member
6.	HoD, Electrical Engg.	Member
7.	HoD, E&TC Engg.	Member
8.	HoD, Comp. Sc. & Engg.	Member
9.	HoD, Sc. & Humanities	Member
10.	Exam Head	Member

11. Administrative Officer		Member
12. Two Lecturers		
a. Mr. Prasanta Kumar Sahoo, Asst. Prof. ME &W/s Supdt.		Member
b. Mrs. Soumya Snigdha Mohapatra, Asst. Prof. CSE		Member
13. Media co-ordinator		Member
14. Representative of Utkal Sevak Samaj, NGO, Cuttack		Member
15. Mr. Manoj Kumar Singh, Parents of a student		Member
16. Mr.Sanjeev Kumar Khuntia, Parent of a student		Member
17. Mr. Bidhu Bhusan Satpathy, Legal Consultant		Member
18. Student representatives		
a. Swayam Sampad Mohanty, F20026004144, 3rd Yr Mech		Member
b. Satya Prakash Parida, F20026002057, 3rd Yr Elect.		Member
c. Sidhartha Sankar Bal, F20026003038, 3rd Yr E&TC		Member
d. Sambit Mohanty, F20026001025, 3rd Yr Civil		Member
e. Agam Prakash, F21026001001, 2nd Yr Civil		Member
f. Simiran Routray, F21026007040, 2nd Yr CSE		Member
g. Pinaki Prasad, F21026004074, 2nd Yr Mech.		Member
h. Rahul Ranjan, F21026002069, 2nd Yr Elect.		Member
i. Ashutosh Sahoo, R.No.-4024, 1st Yr Mech.		Member
j. Afrin Parween, R.No. 3003, 1st Yr E&TC		Member

ANTI-RAGGING SQUAD(ARS)

Staff Members

1. Mr. Shiba Charan Barik, Dean(SW)		Head
2. Mr. Prasant Kumar Sahoo, Asst. Prof., Mech		Ast. Head
3. Mr. Debabrata Pati, Lect. in Civil		Member
4. Mr. Kunja Bihari Sahoo, A. Prof. Elect.		Member
5. Mr. Angad Kumar Lenka, A. Prof. Elect.		Member
6. Mr. Bhagyarathi Das, P.A		Member
7. Mr. Pravat Kumar Nayak, Exam Ast.		Member
8. Mr. Ashutosh Gantayat, Lect. Electrical		Member
9. Mr. Alok Kumar Swain, Lab. Ast. Physics		Member
10. Mr. Hrusikesh Nayak, W/s Instructor		Member
11. Mrs. Subhashree Das, Lecturer in Mechanical		Member
12. Ms. Sanghamitra Behera, Ast. Professor, EL		Member
13. Mrs. Deepika Jena, Lecturer Civil		Member
14. Mr. SM. Nazrul, Asst. Prof. in E&TC		Member
15. Mr. Debasish Sarangi, Vehicle Manager		Member
16. Mr. Sanjaya Kumar Mohanty, Hostel Manager		Member
17. Mr. Rajkishore Biswal, Security Officer		Member
18. Mr. Ranjit Kumar Sahoo, Student Counselor		Member

Students

19. Sushree Sanjana, L19026002097 3rd Yr, Elect.		Member
20. Biswa Ranjan Sethy, L20026001003, 2ND Yr Civil		Member
21. Tusarkanta Rout , L19026004219, 3rd Yr Mech		Member
22. Abhijit Sahoo, F19026004002, 3rd Yr Mech.		Member
23. Siba Prasad Padhi, L20026003006, 3rd Yr E&TC.		Member

24. Chinmaya Kumar Sahoo, F20026004032, 2nd Yr Mech.   Member
25. Biswajeet Behera, F20026007009, Comp. Sc.   Member
26. MD. Faizal Raja F19026007007, 3rd Yr. CSE.   Member
27. Pallav Patra, F2064, 1st Year Elect.   Member
28. Monalisha Tarai, F1034, 1st Year Civil   Member

- Establishment of Online Grievance Redressal Mechanism :

- Establishment of Grievance Redressal Committee in the Institution and Appointment of OMBUDSMAN by the University :
  ### Appointed by SCTE&VT, Odisha

- Establishment of Internal Complaint Committee (ICC)

INTERNAL COMPLAINT COMMITTEE(ICC)

S.N.	Name	Designation & Department	Position of Committee
01	Prof. Tapaswini Sahu	Principal	Chairperson
02	Mrs. Minakshi Mallick	Lecturer in Mathematics	Member
03	Mrs. Sindhusuta Rout	Asst. Professor, Mechanical	Member
04	Mrs. Rajalaxmi Panda	Asst. Professor, Comp. Sc.	Member
05	Mrs. Lipsita Priyadarsini Behera	Asst. Professor, Civil	Co-ordinator
06	Mrs. Sachala Samal	Lab. Asst. in E&TC	Member
07	Ms. Swarnapriya Behera	Student, 3rd Year E&TC	Member
08	Ms. Lipismita Biswal	Student, 2nd Year CSE	Member
09	Ms. Simran Routray	Student, 1st Year CSE	Member

- Establishment of Committee for SC/ ST

FORMATION OF SC/ST RESERVATION COMMITTEE/CELL

Sl. No.	Name	Designation
1	Mr.Shreekantku. Ojha	Chairperson
2	Ms.SanghamitraBehera	Co-ordinator
3	Mr.DebabrataPati	Member
4	Mr. S.M. Nazrul	Member
5	Mrs.Subhashree Das	Member
6	Mr.Yogesh Routray	Member
7	Mr.ManoranjanTripathy	Member

- Internal Quality Assurance Cell

Composition of IQAC

IQAC may be constituted under the Chairmanship of the Head of the institution. The compositions of the IQAC are as follows:

1. Chairperson :   Academic Director of the institution

2. In-charge : Principal (Head of the Institution)
3. Advisor : External distinguished educationist
4. One member from the management (Parent Body)
5. One senior member from the institution : Senior HoD / Vice-Principal

The external expert members from distinguished educationist are listed below:

1. **Prof. (Dr.) Dillip Kumar Sahoo, Asso. Professor, NIT, Bhubaneswar**
2. **Prof. (Dr.) Kapileswar Mishra, Director(A&R) DRIEMS Group of Institutions**
3. **Prof. (Dr.) Alok Ranjan Biswal, Asso. Professor, DRIEMS Autonomous College.**
4. **Prof. Rajeev Agarwal, Asso. Professor, DRIEMS Autonomous College.**
5. **Prof.(Dr.) Gujjala Raghavendra, Asst. Prof. Mechanical Engg. NIT, Warangal**

6. Programmes

- Name of Programmes approved by AICTE : **Diploma in Engineering**
- Name of Programmes Accredited by AICTE : **No**
- Status of Accreditation of the Courses : **03**
- Total number of Courses : **05**
- No. of Courses for which applied for Accreditation: **Nil**
- Status of Accreditation – **Accredited**
- For each Programme the following details are to be given:
- Name: **DIPLOMA in Engineering**
- Number of seats : **570**
- Duration : **3 Years**
- Cut off marks/rank of admission during the last three years
  2020-2021 – 35%
  2021-2022 – 35%
  2022-2023 – 35%
- Fee : **As prescribed by Fee Structure Committee, Odisha**
- Placement Facilities : https://www.driemspolytechnic.org/campus-drive-at-driemspolytechnic.php
- Campus placement in last three years with
  Minimum salary : **Rs. 10500/- per month**
  Maximum salary : **Rs. 38000/- per month**
  Average salary : **Rs. 15000/- per month**
- 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:
  Details of the Foreign University
- Name of the University
- Address
- Website
- Accreditation status of the University in its Home Country
- Ranking of the University in the Home Country
- Whether the degree offered is equivalent to an Indian Degree? If yes, the name of the agency which has approved equivalence. If no, implications for

students in terms of pursuit of higher studies in India and abroad and job both within and outside the country
- Nature of Collaboration
- Conditions of Collaboration
- Complete details of payment a student has to make to get the full benefit of Collaboration
- For each Programme Collaborated provide the following:
  - Programme Focus
  - Number of seats
  - Admission Procedure
  - Fee
  - Placement Facility
  - Placement Records for last three years with minimum salary, maximum salary and average salary
- Whether the Collaboration Programme is approved by AICTE? If not whether the Domestic/Foreign University has applied to AICTE for approval

7. Faculty
- Branch wise list Faculty members:
  - Permanent Faculty : **https://www.driemspolytechnic.org/all-faculty-profile.php**

  - Adjunct Faculty : **Nil**
  - Permanent Faculty: Student Ratio **: 1:25**
  - Number of Faculty employed and left during the last three years :

Year	Left	Employed
2019-20	4	4
2020-21	5	5
2021-22	7	7

8. Profile of Vice Chancellor/ Director/ Principal/ Faculty :
https://www.driemspolytechnic.org/all-faculty-profile.php
For each Faculty give a page covering with Passport size photograph
i.   Name
ii. Date of Birth
iii. Unique id
iv. Education Qualifications
v. Work Experience
  - Teaching
  - Research
  - Industry
  - others
vi.   Area of Specialization

vii. Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level

viii. Research guidance
- No. of papers published in National/ International Journals/ Conferences
- Master
- Ph.D.

ix. Projects Carried out

x. Patents

xi. Technology Transfer

xii. Research Publications

xiii. No. of Books published with details

9. Fee

- Details of fee, as approved by State Fee Committee, for the Institution :
  As decided by the Fee Structure Committee, Odisha
- Time schedule for payment of fee for the entire programme :
  Commencement of the Academic Session
- No. of Fee waivers granted with amount and name of students

S. N.	Branch Name	Reg. No.	Student's Name	Waivers Granted Amt.
1	CIVIL	F22026001030	GOURAB PRASAD SAHU	20000
2	CIVIL	F22026001046	MOHAN BEHERA	20000
3	COMP. SCIENCE	F22026007012	ANKIT SAHOO	20000
4	COMP. SCIENCE	F22026007016	ARCHANA PRIYADARSINI BARIK	20000
5	COMP. SCIENCE	F22026007028	CHANDRA SEKHAR DASH	20000
6	COMP. SCIENCE	F22026007029	CHHAYAKANTA MOHANTY	20000
7	ELECTRICAL	F22026002007	AMIYA SAMAL	20000
8	ELECTRICAL	F22026002062	MALAYA MAHARANA	20000
9	ELECTRICAL	F22026002076	PINTU SAHOO	20000
10	ELECTRICAL	F22026002091	RUDRANARAYAN BEHERA	20000
11	ELECTRICAL	F22026002106	SMRUTIRANJAN BEHURA	20000
12	ELECTRICAL	F22026002116	SUBHAM MOHAPATRA	20000
13	ELECTRONICS & TC	F22026003013	BISWAJIT LENKA	20000
14	ELECTRONICS & TC	F22026003018	DEBASIS PARIDA	20000

15	ELECTRONICS & TC	F22026003026	KISHORE MAJHI	20000
16	MECHANICAL	F22026004009	ABINASH SAHOO	20000
17	MECHANICAL	F22026004018	ANKIT SINHA	20000
18	MECHANICAL	F22026004022	ASHRIBAD DAS	20000
19	MECHANICAL	F22026004026	ASUTOSH SAHOO	20000
20	MECHANICAL	F22026004084	KULDEEP MISHRA	20000
21	MECHANICAL	F22026004091	MADAN MOHAN SAHOO	20000
22	MECHANICAL	F22026004110	O.B. SATYA SWARUP GANTAYAT	20000
23	MECHANICAL	F22026004111	OM GIRISH BARAL	20000
24	MECHANICAL	F22026004121	PRAKASH KUMAR PATRA	20000
25	MECHANICAL	F22026004172	SATYARANJAN DAS	20000

- Number of scholarship offered by the Institution, duration and amount
  Once in a Semester : Rs.6000/-
- Criteria for fee waivers/scholarship
  Meritorious Economically backward students with Annual Income below 8 Lakhs
- Estimated cost of Boarding and Lodging in Hostels :
  Rs. 55,000/- per Annum

10. Admission
- Number of seats sanctioned with the year of approval :
  2019-20 :- 570
  2020-21 :- 570
  2021-22:- 570

- Number of Students admitted under various categories each year in the last three years :

2020

INTAKE	GEN	OBC	SC	ST	PH	MINORITY	TFW	Total Admssion
570	184	32	57	4	1	16	26	355

2021

INTAKE	GEN	OBC	SC	ST	PH	MINORITY	TFW	Total Admssion
570	209	103	59	6	0	18	22	417

2022

INTAKE	GEN	OBC	SC	ST	PH	MINORITY	TFW	Total

								Admssion
570	259	176	92	6	0	31	25	589

• Number of applications received during last two years for admission under Management Quota and number admitted : **Not Applicable**

11. Admission Procedure

- Mention the admission test being followed, name and address of the Test Agency and its URL (website) : **http://www.samsodisha.gov.in/**
- Number of seats allotted to different Test Qualified candidate separately (AIEEE/ CET (State conducted test/ University tests/ CMAT/ GPAT)/ Association conducted test): **Not Applicable**
- Calendar for admission against Management/vacant seats: Not applicable
  - Last date of request for applications :
  - Last date of submission of applications :
  - Dates for announcing final results :
  - Release of admission list (main list and waiting list shall be announced on the same day) :
  - Date for acceptance by the candidate (time given shall in no case be less than 15 days) :
  - Last date for closing of admission:
  - Starting of the Academic session :
  - The waiting list shall be activated only on the expiry of date of main list
- The policy of refund of the fee, in case of withdrawal:

  (i)In the event of a student withdrawing before the start of the Course, the entire fee collected from the student, after a deduction of the processing fee of not more than ₹1000/- (Rupees One Thousand only) shall be refunded by the Institution. It would not be permissible for Institutions to retain the School/ Institution Leaving Certificates in original.

  (ii) In case, if a student leaves after joining the Course and if the vacated seat is consequently filled by another student by the last date of admission, the Institution must refund the fee collected after a deduction of the processing fee of not more than ₹1000/- (Rupees One Thousand only) and proportionate deductions of monthly fees and hostel rent, where applicable.

12. Criteria and Weightages for Admission

- Describe each criterian with its respective weightages i.e. Admission Test, marks in qualifying examination etc.

Passed 10th Std./ SSC examination with Mathematics, Science & English subject

(Lateral Entry to Second Year Diploma): Passed 10+2 examination with Physics and Chemistry as compulsory subjects along with Mathematics.

OR

10+2 Science (with Mathematics as one of the Subject) or 10+2 Science with Technical Vocational subject.

OR

10th + (2 years ITI) with appropriate Trade in that order shall be eligible for admission to Second Year Diploma Course(s) of appropriate Programme.

- Mention the minimum level of acceptance, if any :
  33% marks obtained in 10ᵗʰ Std and 30% Marks in Science, Mathematics & English subject each for three year regular course

- Mention the cut-off levels of percentage and percentile score of the candidates in the admission test for the last three years

2020:-	35%
2021:-	35%
2022:-	35%

- Display marks scored in Test etc. and in aggregate for all candidates who were admitted : **50%**

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 : **Not applicable**

14. Results of Admission Under Management seats/Vacant seats : Not Applicable

- Composition of selection team for admission under Management Quota with the brief profile of members (This information be made available in the public domain after the admission process is over) :
- Score of the individual candidate admitted arranged in order or merit :

- List of candidate who have been offered admission :
- Waiting list of the candidate in order of merit to be operative from the last date of joining of the first list candidate :
- List of the candidate who joined within the date, vacancy position in each category before operation of waiting list :

15. Information of Infrastructure and Other Resources Available

- Number of Class Rooms and size of each   : **23nos & 66sqm/above**
- Number of Tutorial rooms and size of each   : **6nos & 33sqm.**
- Number of Laboratories and size of each   : **24nos & 66sqm.**
- Number of Drawing Halls with capacity of each : **2nos & 66**
- Number of Computer Centres with capacity of each : **1no & 100 desktops**
- Central Examination Facility, Number of rooms and capacity of each
       20nos & 30
- Barrier Free Built Environment for disabled and elderly persons : **Available**
- Occupancy Certificate : **Available**
- Fire and Safety Certificate : **Applied**
- Hostel Facilities : **Available (300 for Boys & 100 for Girls)**
- Library

- Number of Library books/ Titles/ Journals available (program-wise)
  Diploma - **13620 books & 2168 titles.**
- List of online National/ International Journals subscribed

SLNO	BRANCH	NAME OF THE JOURNALS
1	**CIVIL**	The open Civil Engineering Journal
2		Indian Journal of Architecture and Town Planning
3		Journal of Indian Civil Engineering
4	**CSE**	International Journal of Computer science and Information Technology
5		Future Generation Computer Systems
6		Indian Journal in Computer Simulation
7	**ELECT.**	Current Development in Electrical Engineering
8		Indian Journal of Advances in Electrical Engg.
9		Advances Development in Indian Electrical Engineering
10	**ETC.& Tc.**	International Journal of Computer Science and Mobile Computing
11		International Journal of Innovative Research in Science,Engineering and Technology
12		Advances in Electronic Circuit ,Devices & Systems
13	**MECH.**	Journal of Materials Research & Technology
14		Advances in Production Engineering & Management
15	**SC. & HUM. (Math.)**	Indian Journal of Algebra

- E- Library facilities :
- **Laboratory and Workshop**
- List of Major Equipment/Facilities in each Laboratory/ Workshop

DEPARTMENT OF ELECTRICAL ENGINEERING

NAME OF THE LAB: ELECTRICAL LAB PRACTICE

SL NO	NAME OF THE MACHINE/EQUIPMENT WITH SPECIFICATION	EXPERIMENT PERFORMED
1	Squirrel Cage Induction Motor Phase- 3, Capacity: 5 hp, Volt: 415, Frequency: 50, Amepre:7.7 A, RPM: 1440 Insulation: Class B	Study of Direct on Line starter, Star-Delta starter, connection and running a 3-phase Induction motor and measurement of starting current.
2	Squirrel Cage Induction Motor Phase- 3, Capacity: 5 hp, Volt: 415, Frequency: 50, Amepre:7.7 A, RPM: 1440 Insulation: Class B	Study of Auto transformer starter and rotor resistance starter connection and running a 3-phase induction motor and measurement of starting current.
3	Squirrel Cage Induction Motor Phase- 3, Capacity: 5 hp, Volt: 415, Frequency: 50, Amepre:7.7 A, RPM: 1440 Insulation: Class B	Study and Practice of connection & Reverse the direction of rotation of Three Phase Induction motor.
4	Capacity: 1HP, RPM: 1400, Volt 230 Amepre: 5.21 Amp, Phase : 1, Frequency:50 Hz, Capacitor :25µF, Insulation: class F	Study and Practice of connection & Reverse the direction of rotation of Single Phase Induction motor.
5	Capacity: 3 KVA RPM: 1500 Volt: 415 Amepre:4.5 Phase: 3-Ø Insulation: Class B	OC and SC test of alternator and determination of regulation by synchronous impedance method.
6	Capacity: 3 KVA RPM: 1500 Volt: 415 Amepre:4.5 Phase: 3-Ø Insulation: Class B	Determination of regulation of alternator by direct loading.
7	Capacity: 3 KVA RPM: 1500 Volt: 415 Amepre:4.5 Phase: 3-Ø Insulation: Class B	Parallel operation of two alternators and study load sharing.
8	3-phase Wattmeter dynamometer type 5/10 Amp, 150-300-600 volt	Measurement of power of a 3-phase Load using two wattmeter method and verification of the result using one 3-phase wattmeter.
9	Buchholz's relay setup VPL-84	Study of Buchholz's relay.
10	KVA:3 , Volt: 115/230	Determine voltage regulation of transformer by direct loading.

11	KVA:3 , Volt: 115/230	Parallel operation of Transformers(only single Phase)
12	KW:3 RPM: 1500 ,Volt: 220, Amepre:10, Exitation:230 V ,	Study different parts of DC Generator.
13	KW:3 RPM: 1500 ,Volt: 220, Amepre:10, Exitation:230 V ,	Run a DC shunt Generator
NAME OF THE LAB: POWER ELECTRONIC LAB		
1	Series inverter trainer kit	To study series Inverter.
2	UPS	Study UPS & CVT.
3	IC regulator using IC723.	Construct & test IC regulator using IC723.
4	IC 78XX, 79XX, LM317.	Construct voltage regulator using IC 78XX, 79XX, LM317.

ELECTRONICS & TELECOMMUNICATION ENGINEERING

SL. NO.	NAME OF THE LAB	NAME OF MACHINE/EQUIPMENT (SPECIFICATION)	EXPERIMENT PERFORMED
1	COMMUNICATION ENGG.-I LAB	AM MODULATION TRAINER KIT, DEMODULATION TRAINER KIT, CRO & FUNCTION GENERATOR.	1. (A) Study of AM transmitter & Detector and observe the waveform at different test point. (B) Determine percentage of Modulation Index of AM. (C) Study of SSB signal & observe the waveform at different section.
2		FM MODULATION TRAINER KIT, FOSTER SELEY DEMODULATION TRAINER KIT, CRO & FUNCTION GENERATOR.	2. Study of FM transmitter & Detector & observe the waveform at different section.
3		DCT TRAINER KIT & CRO	3. Study of sampling theorem & observe the waveform at different section.
4		DCT TRAINER KIT & CRO	4. Study of ASK modulator & demodulator & observe the waveform at different section.
5		DCT TRAINER KIT & CRO	5. Study of PCM transmitter & receiver & observe the waveform at Different section.
6		DCT TRAINER KIT & CRO	6. Study of FSK modulator & demodulator & observe the waveform at different section.
7		DCT TRAINER KIT & CRO	7. Study of PSK modulator & demodulator & observe the waveform at different section.
8		DCT TRAINER KIT & CRO	8. Study of Delta modulator & demodulator& observe the waveform at different section.

9		SUPERHETERODYNE AM RECEIVER & CRO	9. Study of Super heterodyne radio receiver &observe the waveform at different section
10		LINEAR DIODE DETECTOR TRAINER KIT & CRO	10. Construct Linear Diode Detector & observe the wave forms.

SL. NO.	NAME OF THE LAB	NAME OF MACHINE/EQUIPMENT (SPECIFICATION)	EXPERIMENT PERFORMED
1	COMM. ENGG.-II LAB	ANTENNA TRAINER KIT	1.(A) Study the Antenna Trainer for different type of Antenna & find its gain. (B) Draw the radiation pattern & find the characteristics of antenna (Yogi, Horn, Rhombus, Dipole) (C) Draw the waveform of different lobe of different Antennas using antenna trainer
2		MICROWAVE TEST BENCH KIT	2.(A) To study different types of Microwave components. (B) Measurement of microwave power using power meter. (C) Measure VSWR of different types of load (Matched, Open, Shorted) using Microwave test bench.
3		TRANSMISSION LINE KIT	3. (A) Find the Standing Wave ratio (Open & Short Circuit) & different losses in Transmission line.
4		COLOR T.V TRAINER KIT (SAMSUNG).	4. (A) Study the Block diagram of colour TV receiver and draw the circuit& waveform of different sections. (B) Study the SMPS section and find out load & line regulation. (C) Study the various faults in colour TV.

SL. NO.	NAME OF THE LAB	NAME OF MACHINE/EQUIPMENT (SPECIFICATION)	EXPERIMENT PERFORMED

SL. NO.	NAME OF THE LAB	NAME OF MACHINE/EQUIPMENT (SPECIFICATION)	EXPERIMENT PERFORMED
1.	ADVANCE COMMUNICATION LAB	FIBER OPTIC TRAINER KIT (MODEL VOFT-02)	1. (A) Setting up a fiber optic analog & digital link including source & detector. (B) Study of losses in Optical Fiber: I. Measurement of propagation loss. II. Measurement of bending loss. III. Measurement of connector loss. IV. How connector loss is affected by fiber and quality. (C) Measurement of Numerical aperture. (D) Setting of AM, FM, PWM, Modulator & Demodulator using optical fiber kit.
2.		SATELLITE COMM.TRAINER KIT	2. STUDY OF SATELLITE COMMUNICATION TRAINER KIT
3.		MOBILE TRAINER KIT	3. STUDY OF MOBILE COMMUNICATION TRAINER KIT
4.		EPABX TRAINER KIT(VCT-41)	4. STUDY OF DIFFERENT CALL SET-UP USING EPABX TRAINER KIT AND OBSERVE ITS WAVEFORM.
SL. NO.	NAME OF THE LAB	NAME OF MACHINE/EQUIPMENT (SPECIFICATION)	EXPERIMENT PERFORMED
1.	ANALOG ELECTRONICS-I LAB	TWO STAGE RC COUPLED AMPLIFIER TRAINER KIT,CRO, MULTIMETER	1. Study the two stage CE amplifier , find Gain & draw the frequency response curve
2.		PUSH PULL AMPLIFIER TRAINER KIT, CRO, MULTIMETER	2. Construct & test Push Pull amplifier & observe the wave form
3.		CLASS-C TUNED AMPLIFIER TRAINER KIT,CRO,MULTIMETER	3. Construct & Find the gain Class C Tuned Amplifier
4.		FET CHARACTERISTIC KIT,CRO, MULTIMETER	4. Determine Drain & Transfer characteristics of JFET
5.		(i) Hartly Oscillator (ii) Collpit Oscillator (iii) Wein Bridge Oscillator (iv) R-C phase shift Oscillator AND CRO, MULTIMETER	5. Construct & calculate the frequency & Draw the waveform.
6.		Differentiator and Integrator KIT,CRO,MULTIMETER	6. Construct & Test Differentiator and Integrator using R-C Circuit.
7.		Transistor Characteristic kit, MULTIMETER, Ammeter, Voltmeter	7. Test Transistor act as an Switch & study its characteristics
8.		Clipper, Clamper kit, CRO, Multimeter	8. Observe the waveform of Clipper, Clamper circuits

SL. NO.	NAME OF THE LAB	NAME OF MACHINE/EQUIPMENT (SPECIFICATION)	EXPERIMENT PERFORMED
1.	ANALOG ELECTRONICS-II LAB	78xx &79xx ICs KIT, CRO, MULTIMETER	1. Construct and test voltage power supply using 78xx &79xx ICs (+5V, -5V,+9V,-9V)
2.		OPAMP CHRACTERISTIC KIT, CRO, MUTIMETER, VOLTMETER, AMMETER	2.(A) Study of Operational Amplifier 741 & draw its pin diagram, (B) Determine the following characteristics of an OP-Amp. i) Input off-set voltage. ii) Slew rate iii) CMMR iv) Bandwidth v) Input bias current
3.		Inverting and non-inverting amplifier using OPAMP KIT, CRO	3. Construct and study inverting and non-inverting amplifier using OPAMP
4.		Integrator and differentiator using OPAMP KIT, CRO	4. Construct and study integrator and differentiator using OPAMP.
5.		V to F and F to V using OPAMP KIT, CRO	5. Construct and study voltage comparator, V to F and F to V using OPAMP
6.		Multivibrator Kit using OPAMP Kit, CRO	6. Construct and study Astable & Monostable Multivibrator

SL. NO.	NAME OF THE LAB	NAME OF MACHINE/EQUIPMENT (SPECIFICATION)	EXPERIMENT PERFORMED
1.	ELECTRONICS MEASUREMENTS LAB	CRO, Function generator, CDS	1. (A) Measurement of Current and Voltages by Low range ammeter and voltmeter respectively with shunt and multiplier. (B) Observe the wave forms of different frequency by using Function generator and draw its diagram. &calculates average & R.M.S. Values, frequency, Time Periods using CRO. (C) Measure the unknown frequency and phase angle using CRO by Lissajous figure
2.		DUAL TRACE CRO	2. Measure the amplitude and frequency using dual trace CRO.
3.		Wheatstone Bridge, Maxwell Bridge, Hay's Bridge, Schering's Bridge KIT, CRO	3. (A) Measurement of resistance using Wheatstone's Bridge (B) Measure the inductance by Maxwell's Bridge &Hay's Bridge (C) Measure the capacitance by Schering's Bridge
4.		LCR meter KIT, CRO	4. Measure the Resistance, Capacitance of circuit (Series & parallel) by using LCR meter and find the Q factor of the coil

DEPT.OF CIVIL ENGG
NAME OF THE LAB - CEL

SL NO	MACHINE NAME	SPECIFICATION	EXPERIMENT PERFORMED

SL NO	NAME OF M/C OR EQUIPMENT	EXPERIMENT PERFORMED
1	Compression testing m/c Specification -235mm Ram dia 　　　　2000 KN load Company –ASEW	Compressive strength of concrete cube, Cement Mortar & brick
2	Laboratory concrete mixture Fitted with ac induction motor 1440 rpm ,0.75 KN ,1 Hp Company –ASEW	Preparation of fresh concrete mix for Concrete cube
3	Los angel's abrasation m/c IS:2386(part iv) Company –ASEW	Strength of coarse road aggregate
4	Ductility testing apparatus Thermotech TH-012 Company –ASEW	Ductility of bitumen sample
5	Hot air oven DTC-204 Company-Creative	Water content of soil sample
6	Impact test apparatus Motor operated,1/2 Hp,1425 RPM Model No-LK3071 Company –ASEW	For SPT and MPT of a soil sample

NAME OF THE LAB – SURVEY LAB

SL NO	NAME OF M/C OR EQUIPMENT	EXPERIMENT PERFORMED
1	Theodolite m/c 12 cm dia transit Front line NO-00180/07	Measurement of HA , VA, DA ,ranging between various staffs
2	Auto level SOKKIA C410 Model NO -03581	Measurement of RL of various points
3	Dumpy level Front line Model NO- 0040/2006	Measurement of RL of various points

MECHANICAL ENGINEERING
HEAT POWER LAB

1	*MULTI CYLINDER FOUR STROKE PETROL ENGINE*	*Type- Load type* *Capacity- 7.5 kw* *Speed- 3000 rpm* *Arm length- 0.3 meter*	*i)-Determination of Brake Horse power, , Indicated Horse power, Brake specific fuel consumption of a multi cylinder engine by Morse test(5th semester)*
2	*FOUR STROKE SINGLE CYLINDER DIESEL ENGINE*	*Engine type- AVI* *Speed- 1500 rpm* *Power rating- 3.7 kw* *SFC- 245g/kw-h*	*i)-Determination of brake thermal efficiency of a single cylinder diesel engine(5th semester)*

STRENGTH OF MATERIAL LAB

1	TORSION TESTING MACHINE	Max torque capacity- 50 kg Testing speed- 1.5 rpm Max clearance between grips- 0-500 mm Drive motor power required- 2 hp	i)-Determination of Torsional rigidity of a shaft using torsion testing machine(3rd semester)
2	IMPACT TESTING MACHINE	Model- AIT-300-D Display- Digital I.P energy for Charpy- 300 joule I.P energy for Izod- 170 joule L.C- 2 joule pendulum drop angle for Izod - 90°	i)-Determination of toughness using impact testing machine(Charpy/Izod)(3rd semester)
3	UNIVERSAL TESTING MACHINE	Capacity- 100 kn Effective test width- 600 mm Setting method of Testing speed- digital Display set with cursor key Weight 900 kg approx.	i)-Determination of Young's modulus, Yield point, Fracture point from stress-strain curve using UTM (3rd semester)
4	HARDNESS TESTING MACHINE	Depth of throat- 135 mm Max depth of screw- 215 mm Dimension of machine base- 150×425 mm approx. Height- 660 mm approx. Net weight- 67 kg approx.	i)-Determination of hardness number by Rockwell hardness testing machine(3rd semester)

HYDRAULICS LAB

1	PELTON WHEEL TURBINE	Make- Crompton greaves Type- MEP 52 Rating- 5 H.P Total head- 24 mtrs Discharge- 840 ltrs/min Rpm-2880 Size- 80×65 mm	i)-Performance test in impulse turbine(4th semester)
2	FRANCIS TURBINE	Power o/p- 1 H.P Runway speed- 1500 rpm Runner dia- 160 mm No. of guide vens- 10 Brake drum dia- 310 mm Rope brake dia- 15 mm PCD guide vane- 230 mm	i)-Performance test in reaction turbine(4th semester)
3	CENTRIFUGAL PUMP	Size- 25×25 Head- 11 mtrs RPM- 2900 Head range 8-12 mtrs BHP- 0.63 H.P- 0.75	i)-Performance test in centrifugal pump(4th sem)

		Transmission efficiency- 80% Rating- 1 hp Current speed- 4 amp	
4	HYDRAULIC BENCH	Size of table- 55×45×10 cm Measuring tank- 60 ltrs capacity Size- 40×50×30 cm Sump tank- 120 ltrs capacity Size- 40×100×30 cm Nominal dia. of pipe- 28 mm	i)-Verification of Bernoulli's theorem ii)-Determination of c_d from Venturimeter iii)-Determination of c_c,c_v,c_d from orifice meter(4th semester)

THEORY OF MACHINE LAB

1	CAM ANALYSIS	i)- Circular cam ii)- Eccentric cam iii)- Tangent cam iv)- Mushroom follower v)- Roller follower vi)- Knife edge follower vii)- Compression spring- a spring of 4.5 kg/cm & 8.5 kg/cm stiffness is provided	i)-Study of different types of cam & followers(5th semester)
2	JOURNAL BEARING	Dia. of journal- 55 mm Dia. of bearing- 75 mm Bearing width- 75 mm Weight- 0.5 kg Motor- 1 hp RPM- 3000 Current- DC Supply required- 230v, AC stabilised	i)-Study & demonstration of journal bearing apparataus (5th semester)
3	UNIVERSAL GOVERNOR	Drive DC motor of 0.25 hp, 500 rpm speed, speed variation arrangement provided separate linkage for governor arrangement	I)-Determination of centrifugal force of a governor(Hartnell, Watt & Porter) (5th semester)

COMPUTER SCIENCE & ENGINEERING

COMPUTER APPLICATION LAB

SL NO	LAB SPECIFICATION	EXPERIMENT
1	**LAB-1** **Intel(R) Xeon (R)- 3.10GHz, 8GB RAM, 3TB HDD, 2008 Server- Service Pack-1 N-Computing (30 Systems)**	**Connection of the computer system**
2		**Introduction to windows & its properties**
3		**Introduction to dos & its properties**

4		**Microsoft office**
5		**Internet**
6		**Write a program to display your name using c**
7		**Write a program to add two numbers using c**
8		**Write a program to calculate the grade of a student with simple if statement using c**
9		**Write a program to find the greatest among two numbers using if-else statement using c**
10		**Write a simple program for demonstration of simple while loop using c**
11		**Write a program to find the factorial of a number using for loop using c**
12		**Write a program for implementation of functions using c**
13		**Write a program for implementation of passing parameters to the functions using c**
14		**Write a program to illustrate the use of call by value using c**
15		**Write a program to illustrate passing of arguments bby refernce using c**
16		**Write a program to illustrate the concept of passing of one-dimensional array to function using c**
17		**Write a program to illustrate the concept of passing of two-dimensional array to function using c**
18		**Write a program to solve a factorial using recursion using c**
19		**Write a program to find whether the string is a palindrome or not using c**

Sl no		Experiment
20		Write a program to find the vowels in a given string using c
21		Write a program to concatenate two strings using c

DATA STRUCTURE LAB

Sl no	Lab Specification	Experiment
1	**LAB-2** **Total No of Computers-36** **Intel P-iv, 2.93 GHz, 512MB RAM,80GB HDD,1.44FDD 15" Monitor**	Implementation of 1D & 2D Array
2		Implementation of Stack &5. Implementation of insertion & deletion in Stack
3		Pointer and its application
4		Structure & Union
5		Implementation of insertion & deletion in Queue
6		Implementation of insertion & deletion in Linked list
7		Implementation of Bubble sort
8		Implementation of Quick sort
9		Implementation of Binary tree traversal
10		Implementation of Linear search
11		Implementation of Binary search

COMPUTER GRAPHICS & MULTIMEDIA LAB

Sl no	Lab Specification	Experiment

1	**LAB-2**	Basic structure of a c-graphics program:
2	**Total No of Computers-36** **Intel P-iv, 2.93 GHz, 512MB RAM,80GB HDD,1.44FDD 15" Monitor**	Implementing dda (digital differential analyzer) algorithm
3		Implementing bresenham line generation algorithm.
4		Implementing midpoint circle generation algorithm
5		Implementing area fill algorithm
6		C implementation flood fill algorithm fills new color until the old color match.
7		C implementation for boundary filling algorithm
8		Working with adobe photoshop

DBMS LAB

Sl no	Lab Specification	Experiment
1	**LAB-3**	Define sql. write commands of create, alter, describe, drop in sql.
2	**Total No of Systems-30** **Intel® 3.30GHz,4GB RAM,500GB HDD, 17" Monitor**	What are the advantages of dbms? write four commands of ddl.
3		Write the command for the following: (i)insert(ii)update(iii)delete(iv)drop
4		What is a view? what are the advantages of view? write syntax of following view command: (i)creating a view (ii)deleting a view
5		What are the various sql operators?
6		Write the commands for the following(i)create (ii)insert (iii)update (iv)delete

7		What are the difference between truncate and delete. write their syntax
8		What is the use of nvl function? explain with example.
9		Whether any commands are used for months calculation? if so, what are they?
10		What are nested tables?
11		What is dml?
12		What is the difference between translate and replace?
13		What is null value in oracle?
14		What is with check option? explain with example
15		What is the use of aggregate functions in oracle?
16		What do you mean by group by clause?
17		What is a sub query and what are the different types of sub queries?
18		What is a cursor variable? what are cursor attributes?
19		What are privileges and grants?
20		How to display employee records who gets more salary than the average salary in the department?
21		How will you differentiate between varchar & varchar2?
22		What is meant by joins? list out the types of joins.

Sl no		Question
23		What is the difference between substr & instr functions?
24		How can we find out the duplicate values in an oracle table?
25		How does the on-delete-cascade statement work?
26		What is the difference between a primary key & a unique key?
27		What are the set operators union, union all, minus & intersect meant to do?

JAVA LAB

Sl no	Lab Specification	Experiment
1	**LAB-3** **Total No of Systems-30** Intel® 3.30GHz,4GB RAM,500GB HDD, 17" Monitor	Write a program in java to add two numbers?
2		Write a program in java to find out factorial of a number?
3		Write a program in java to find out square of a number?
4		Write a program in java to perform all arithmetic operations?
5		Write a program in java to find out average of 10 numbers?
6		Write a program in java to find out sum of ten natural numbers?
7		Write a program in java to find out area of circle?
8		Write a program in java to find out area of rectangle?
9		Write a program in java to show the use of class?
10		Write a program in java to show the use of constructor?

11		Write a program in java to find out sum of ten natural number?
12		Write a program in java to find out area of circle?
13		Write a program in java to find out area of rectangle?
14		Write a program in java to find out sum of ten natural number?
15		Write a program in java to find out area of circle?
16		Write a java program to swap two numbers with using the third variable.
17		Write a java program to swap two numbers without using the third variable.
18		Write a java program to find whether a number is prime or not.
19		Write a java program to find whether a string or number is palindrome or not.
20		Write a java program to find the duplicate characters in a string.

OBJECT ORIENTED PROGRAMMING LAB

Sl no	Lab Specification	Experiment
1	**LAB-4** **Total No of Computers -36** Intel Pentium D 3 GHz, 512MB RAM, 80GB HDD, 15" Monitor	**Object and class**
2		**Declaring and creating object constructor**
3		**Modifiers**
4		**Passing objects to method**
5		**Instance variables and class variables instance method and class method**
6		**Scope of variables interface & packages**
7		**Problem on class inheritance super class & sub class calling super class constructors**
8		**Calling super class methods**
9		**Object class**
10		**Number class**
11		**Processing date & time**
12		**Class template and exceptional handling**
13		**Write a program in c++ to find the average of 'n' numbers by using 'for' loop.**
14		**Write a program in c++ to compute $(a + b)^2$**
15		**Write a program in c++ to convert time in seconds to time in hours, minutes and seconds.**
16		**Write a program in c++ to find the sum of all even no. from 1 to 100 using class.**
17		**Write a program in c++ to determine whether a number is prime or not?**
18		**Write a program in c++ to compute simple interest and compound interest of a given principal, rate of interest**

		and time period.
19		Write a program in c++ to check whether a given number is palindrome or not?
20		What is inheritance? write down the types of inheritance.
21		Write a program in c++ to illustrate scope resolution (::) operator?
22		What is constructor? write down the types of constructor?
23		What is a default constructor? give an example.
24		Write a program in c++ to find the factorial of a number, using nesting of member function?
25		Write a program to show single inheritance between two classes.
26		Write a program in c++ to accept a number from keyboard and print it in reverse order using inheritance.
27		What is polymorphism? what are the different types of polymorphism?
28		What is operator overloading? explain with an example?
29		What is function overloading? explain with an example?
30		Write a c++ program to swap two numbers.
31		Write a simple c++ program to illustrate binary operator overloading?

- List of Experimental Setup in each Laboratory/ Workshop

- **Computing Facilities**
  - Internet Bandwidth   : 300mbps
  - Number and configuration of System   : 231 nos
  - Total number of system connected by LAN : 231 nos
  - Total number of system connected by WAN : Nil
  - Major software packages available   : 6
  - Special purpose facilities available   : 14
  - Innovation Cell   : Available
  - Social Media Cell   : Available
- **List of facilities available**

- Games and Sports Facilities : Cricket,
  Football,
  Vollyball,
  Basket Ball,
  Badminton,
  Table Tennis
  Swimming
  Athletics
  Multi Jim
- Extra-Curricular Activities : Debate
  Essay Writing
  Quiz
- Soft Skill Development Facilities : Not available

- Teaching Learning Process
  - Curricula and syllabus for each of the programmes as approved by the University : Available in the Institute website :
  https://www.driemspolytechnic.org
  - Academic Calendar of the University :
  https://www.driemspolytechnic.org/academic-calender.php

  - Academic Time Table with the name of the Faculty members handling the Course

  https://www.driemspolytechnic.org/time-table.php

  - Teaching Load of each Faculty :
    Principal : 4 hours / week
    Sr. Lecturer/HoDs : 14 hours / week
    Lecturer : 20 hours / week
  - Internal Continuous Evaluation System and place :
  - Student's assessment of Faculty, System in place :

16. Enrollment of students in the last 3 years

Year	Regular	Lateral
2020	355	72
2021	417	80
2022	592	159

17. List of Research Projects/ Consultancy Works

- Number of Projects carried out, funding agency, Grant received : Nil
- Publications (if any) out of research in last three years out of masters projects : Nil
- Industry Linkage : 5nos
- MoUs with Industries (minimum 3): 5nos

18. LoA and subsequent EoA till the current Academic Year
available in the Institute Website :
https://www.driemspolytechnic.org/approval.php

19. Accounted audited statement for the last three years :
Available in the Institute website :
https://www.driemspolytechnic.org/audit-report.php

20. Best Practices adopted, if any