

MANDATORY DISCLOSURE OF THE INSTITUTE DHABALESWAR INSTITUTE OF POLYTECHNIC

1. Name of the Institution : Dhableswar Institute of Polytechnic

- Address : At- Radhadamodarpur IE, Po-Radhakishorepur,
Athgarh, Cuttack
Telephone/ Mobile :- 06723248234/9437284154,
E-Mail : dipcuttack@gmail.com

2. Name and address of the Trust/ Society/ Company and the Trustees DITC MANAGING TRUSTEES

- Address : At-5-JANAPATH BAPUJI NAGAR
Telephone : 0674-2570156 , Mobile- 9437015730,
E-Mail: dipcuttack@gmail.com

3. Name and Address of the Principal : Er.Suwendu Das

- Address : Dhableswar Institute of Polytechnic,
At- Radhadamodarpur IE, Po-Radhakishorepur,
Athgarh, Cuttack,
Telephone : 06723248234, Mobile-9437300149,
E-Mail : dipcuttack@gmail.com

4. Name of the affiliating

University : SCTE&VT, Odisha, Bhubaneswar

5. Governance

- Members of the Board and their brief background

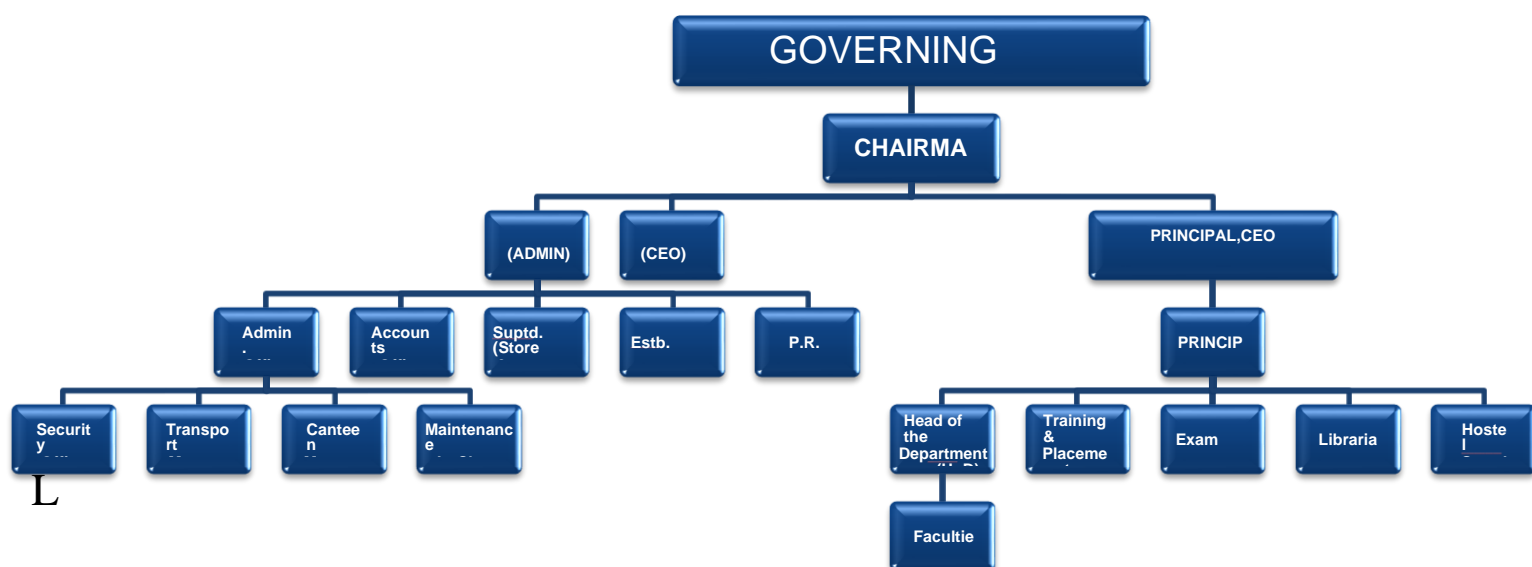
- 1 Mr. BIRENDRA PRATAP SWAIN
- 2 ER.SUBRAT DAS
3. PROF.DEBAKINANDAN MOHANTY

Position in Governing Body.

PRESIDENT
CHAIRMAN
Member

- 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

NAME OF THE COMMITTEE MEMBER	DESIGNATION
01.MR.BASANT KUMAR NAYAK	CEO
02.MR.RAMANI RANJAN NAYAK	ADMINISTRATIVE OFFICER
03.MR.D.N MOHANTY	PROFESSOR
04.MR.SUNIL KUMAR MOHANTY	DIRECTOR STUDENT WELFARE
05.MR.ASHIS PANDA	LECTURER
06.MR.SANJAYA KUMAR JENA	LECTURER
07.MR.SITIKANTHA RATH	LECTURER
08.MR.SUBASH CHANDRA PATRA	DEMONSTRATOR
09.MISS.MONALISHA DAS	DEMONSTRATOR
10.MISS.DIPTI DAS	LECTURER

- 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)

Sl. No.	Name	Designation
1	MONALISHA JENA	CHAIR PERSON
2	DEBAPRASAD SAHOO	MEMBER
3	RASHMIRANJAN DAS	MEMBER
4	PRAVAT KUMAR MAHAPATRA	MEMBER
5	PRADEEP KUMAR ROUT	MEMBER
6	SARMISTHA DAS	MEMBER
7	SIBRAM PANDA	MEMBER
8	SAROJ NALINI DAS	MEMBER

- Establishment of Committee for SC/ ST

FORMATION OF SC/ST RESERVATION COMMITTEE/CELL

Sl. No.	Name	Designation
1	RAMANI RANJAN NAYAK	CHAIR PERSON
2	SUNIL KUMAR MOHANTY	CO-ORDINATER
3	SANJAY KUMAR JENA	MEMBER
4	RASMAN KUMAR SANTI	MEMBER
5	TANMAYEE SETHY	MEMBER

- Internal Quality Assurance Cell

6. Programmes

- Name of Programmes approved by AICTE : **Diploma in Engineering**
- Name of Programmes Accredited by AICTE : **No**
- Status of Accreditation of the Courses : **Nil**
- Total number of Courses : **05**
- No. of Courses for which applied for Accreditation: **00**
- Status of Accreditation – **Preliminary**
- For each Programme the following details are to be given:
- Name: **DIPLOMA in Engineering**
- Number of seats : **420**

- Duration : **3 Years**
- Cut off marks/rank of admission during the last three years
 - 2019-2020 – 35%**
 - 2020-2021 – 35%**
 - 2021-2022 – 35%**
- Fee : **As prescribed by Fee Structure Committee, Odisha**
- Placement Facilities
- Campus placement in last three years with
 - Minimum salary : **Rs. 10500/-per month**
 - Maximum salary : **Rs. 40000/-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 :

S.N.	Department	Name	Designation	Appointment Type	Date of Joining
1	CIVIL ENGINEERING	TANMAYEE SETHI	LECTURER	Regular	01-07-2018
2	CIVIL ENGINEERING	DIBYADARSINI SAHOO	LECTURER	Regular	01-07-2018
3	CIVIL ENGINEERING	SUBHRANSU KUMAR MUDULI	LECTURER	Regular	21-01-2019
4	CIVIL ENGINEERING	ARADHANA MOHANTY	LECTURER	Regular	01-06-2017
5	CIVIL ENGINEERING	CHITTARANJAN MALLIK	LECTURER	Regular	10-12-2020
6	CIVIL ENGINEERING	BIKASH KUMAR PATRA	LECTURER	Regular	04-01-2021
7	CIVIL ENGINEERING	BIJANKRISHNA MOHAPATRA	LECTURER	Regular	17-01-2019
8	CIVIL ENGINEERING	SWETA MOHANTY	LECTURER	Regular	17-01-2019
9	COMPUTER SCEINCE & ENGG.	MONALISH JENA	LECTURER	Regular	01-07-2018
10	COMPUTER SCEINCE & ENGG.	BALARAM MALIK	LECTURER	Regular	14-12-2020
11	COMPUTER SCEINCE & ENGG.	RASMAN KUMAR SHANTI	HOD	Regular	03-03-2008
12	COMPUTER SCEINCE & ENGG.	SARITA NAYAK	LECTURER	Regular	04-08-2007
13	ELECTRICAL ENGINEERING	AJAY KUMAR PRADHAN	HOD	Regular	18-01-2008
14	ELECTRICAL ENGINEERING	RASHMI RANJAN DASH	LECTURER	Regular	09-09-2008
15	ELECTRICAL ENGINEERING	ADITYA PRASAD PRUSTY	LECTURER	Regular	15-09-2008
16	ELECTRICAL ENGINEERING	DEBIPRASAD DAS	LECTURER	Regular	01-07-2017
17	ELECTRICAL ENGINEERING	BISWAPRAKASH PARIJA	LECTURER	Regular	01-07-2017
18	ELECTRICAL ENGINEERING	DEBEEDUTTA BHOI	LECTURER	Regular	01-07-2017
19	ELECTRICAL ENGINEERING	JAGATJIT ROUT	LECTURER	Regular	08-01-2017
20	ELECTRICAL ENGINEERING	SAMIR RANJAN SWAIN	LECTURER	Regular	01-07-2017
21	ELECTRICAL ENGINEERING	DURGASISH MANGARAJ	LECTURER	Regular	14-12-2020
22	ELECTRONICS & TELECOM.ENGG.	SITIKANTHA RATH	HOD	Regular	09-09-2008
23	ELECTRONICS & TELECOM.ENGG.	GITANJALI BEHERA	LECTURER	Regular	15-07-2009
24	ELECTRONICS & TELECOM.ENGG.	ROJALIN PANDA	LECTURER	Regular	01-07-2017
25	ELECTRONICS & TELECOM.ENGG.	SUSHANT KUMAR PATRA	LECTURER	Contract	01-07-2017
26	FIRST YEAR/OTHER	DEBAKI NANDAN MOHANTY	LECTURER	Regular	15-06-2006
27	FIRST YEAR/OTHER	SWETA MOHANTY	LECTURER	Regular	01-07-2017

28	FIRST YEAR/OTHER	GANGADHAR NAYAK	LECTURER	Regular	01-07-2017
29	FIRST YEAR/OTHER	AVIMANYU SAHOO	LECTURER	Regular	01-07-2017
30	FIRST YEAR/OTHER	RAJALAXMI DAS	LECTURER	Regular	01-12-2020
31	FIRST YEAR/OTHER	SUBRAT KUMAR SENAPATI	LECTURER	Regular	10.03.2015
32	FIRST YEAR/OTHER	DIBYAJYOTI SAMANTARAY	LECTURER	Regular	17-07-2017
33	FIRST YEAR/OTHER	RAJESH KUMAR BEHERA	LECTURER	Regular	16-12-2020
34	FIRST YEAR/OTHER	ACHYUTANANDA KHANDAI	LECTURER	Contract	14-12-2020
35	FIRST YEAR/OTHER	BASANTA KUMAR NAYAK	LECTURER	Regular	10-07-2017
36	FIRST YEAR/OTHER	KAMAKSHYA PRATAP NAYAK	LECTURER	Regular	15-12-2020
37	FIRST YEAR/OTHER	MANAS RANJAN SAHOO	LECTURER	Regular	14-12-2020
38	FIRST YEAR/OTHER	ATMAKURI VENKATA SIVAIAH	LECTURER	Contract	15-05-2017
39	FIRST YEAR/OTHER	ASHISHA PANDA	LECTURER	Regular	13-08-2007
40	FIRST YEAR/OTHER	KARU MOJU NARAYAN ACHARY	LECTURER	Regular	10-08-2007
41	MECHANICAL ENGG.	ER SUVENDU DAS	PRINCIPAL	Regular	14-05-2006
42	MECHANICAL ENGG.	ER SANJAY KUMAR JENA	HOD	Regular	08-12-2008
43	MECHANICAL ENGG.	SUBRAT KUMAR SENAPATI	LECTURER	Regular	22-08-2011
44	MECHANICAL ENGG.	RAKESH KUDEI	LECTURER	Regular	01-07-2019
45	MECHANICAL ENGG.	OM PRAKASH MOHANTY	LECTURER	Regular	03-02-2017
46	MECHANICAL ENGG.	ASHUTOSH SINGH	LECTURER	Regular	07-01-2017
47	MECHANICAL ENGG.	SUNDAR GOPAL PATTANAİK	LECTURER	Regular	08-01-2017
48	MECHANICAL ENGG.	PRADEEP KUMAR DAS	LECTURER	Regular	01-06-2017
49	MECHANICAL ENGG.	SARADA PRASAD BAL	LECTURER	Regular	06-01-2017
50	MECHANICAL ENGG.	BIKRAM KESHARI BEHERA	LECTURER	Regular	07-01-2017
51	MECHANICAL ENGG.	DEBAPRASAD SAHOO	LECTURER	Regular	01-07-2019
52	MECHANICAL ENGG.	SANTOSH KUMAR JENA	LECTURER	Regular	01-12-2020
53	MECHANICAL ENGG.	SRIHARSH ADITYA	LECTURER	Regular	22-01-2021

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

Year	Left	Employed
2018-19	3	3
2019-20	4	4
2020-21	6	6

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

<https://www.dipcuttack.org/all-faculty-profile.php>

For each Faculty give a page covering with Passport size photograph

- Name
- Date of Birth
- Unique id
- Education Qualifications
- Work Experience
 - Teaching
 - Research
 - Industry
 - others
- Area of Specialization
- Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level
 - No. of papers published in National/ International Journals/ Conferences
 - Master
 - Ph.D.
- Projects Carried out
- Patents
- Technology Transfer
- Research Publications
- No. of Books published with details
- 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 payment with amount and name of students.

S. N.	Branch Name	Reg. No.	Student's Name	Waivers Granted Amt.
1	CIVIL	F20032001009	AYUSH MOHANTY	20000
2	CIVIL	F20032001051	SAMARENDRA NAYAK	20000
3	CIVIL	F20032001008	ARUN KUMAR MANTRY	20000
4	CIVIL	F20032001027	JITENDRA NAYAK	20000
5	CIVIL	F20032001011	BHABANI SANKAR SAHOO	20000
6	COMP. SCIENCE	F20032007023	SOMYASHREE JENA	20000
7	ELECTRICAL	F20032002036	KALIA NATH	20000
8	ELECTRICAL	F20032002108	SUBHANJIT NAYAK	20000
9	ELECTRICAL	F20032002021	BISWASMRUTI MOHANTY	20000
10	ELECTRICAL	F20032002122	TUSHAR PRUSTY	20000
11	ELECTRICAL	F20032002073	RASHMIRANJAN PRADHAN	20000
12	ELECTRICAL	F20032002099	SOUMYA RANJAN SAHOO	20000
13	ELECTRONICS	F20032003031	SAROJ KUMAR LENKA	20000
14	MECHANICAL	F20032004080	RUDRANARAYAN SWAIN	20000
15	MECHANICAL	F20032004119	TAPAN PRUSTY	20000
16	MECHANICAL	F20032004075	RAKESH KUMAR SINGH	20000
17	MECHANICAL	F20032004063	NITYANANDA SAHOO	20000
18	MECHANICAL	F20032004015	BISWAJIT ROUT	20000
19	MECHANICAL	F20032004115	SWADHIN KUMAR ROUSTRAY	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 6 Lakhs
- Estimated cost of Boarding and Lodging in Hostels :
Rs. 32,000/- per Annum

10. Admission

- Number of seats sanctioned with the year of approval :
2018-19 :- 420
2019-20 :- 420
2020-21:- 420
- Number of Students admitted under various categories each year in the last three years :

Academic year-2019

INTAKE	GEN	OBC	SC	ST	PH	MINORITY	TFW	Total Admssion
420	154	66	120	28	1	2	20	371

Academic year-2020

INTAKE	GEN	OBC	SC	ST	PH	MINORITY	TFW	Total Admssion
420	116	72	142	25	0	3	20	366

Academic year-2021

INTAKE	GEN	OBC	SC	ST	PH	MINORITY	TFW	Total Admssion
420	126	64	135	44	0	1	17	365

- 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 criterion with its respective weightages i.e. Admission Test, marks in qualifying examination etc.
Passed 10th Std./ SSC examination. Obtained at least 35% marks in the qualifying examination.
(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 :

35% 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

2019:- 35%

2020:- 35%

2021:- 35%

- Display marks scored in Test etc. and in aggregate for all candidates who were admitted : **45%**

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 : **24nos & 139sqm/above**
- Number of Tutorial rooms and size of each : **5nos & 74sqm.**
- Number of Laboratories and size of each : **24nos & 111sqm.**
- Number of Drawing Halls with capacity of each : **1nos & 149 sqm.**
- Number of Computer Centres with capacity of each : **2no & 140 desktops**
- Central Examination Facility, Number of rooms and capacity of each **15nos & 40**
- Barrier Free Built Environment for disabled and elderly persons : **Available**
- Occupancy Certificate : **Available**
- Fire and Safety Certificate : **Applied**
- Hostel Facilities : **Available (320 for Boys & 205 for Girls)**
- **Library**
- Number of Library books/ Titles/ Journals available (program-wise)

Diploma -**10510 books & 1690 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 :25 μ F, 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- \emptyset 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- \emptyset Insulation: Class B	Determination of regulation of alternator by direct loading.
7	Capacity: 3 KVA RPM: 1500 Volt: 415 Amepre:4.5 Phase: 3- \emptyset 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.

DEPT.OF 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
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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 CHARACTERISTIC KIT, CRO, MULTIMETER, 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
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DEPT.OF CIVIL , NAME OF THE LAB -CEL

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

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(3 rd 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)(3 rd 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 (3 rd semester)
4	HARDNESS TESTING MACHINE	Depth of throat- 135 mm Max depth of screw- 215 mm Dimension of machine base- 150x425 mm approx. Height- 660 mm approx. Net weight- 67 kg approx.	i)-Determination of hardness number by Rockwell hardness testing machine(3 rd 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- 80x65 mm	i)-Performance test in impulse turbine(4 th 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(4 th semester)
3	CENTRIFUGAL PUMP	Size- 25x25 Head- 11 mtrs RPM- 2900 Head range 8-12 mtrs BHP- 0.63 H.P- 0.75	i)-Performance test in centrifugal pump(4 th sem)

		Transmission efficiency- 80% Rating- 1 hp Current speed- 4 amp	
4	HYDRAULIC BENCH	Size of table- 55x45x10 cm Measuring tank- 60 ltrs capacity Size- 40x50x30 cm Sump tank- 120 ltrs capacity Size- 40x100x30 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(4 th 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(5 th 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 apparatus (5 th 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) (5 th 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	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
20	Write a program to find the vowels in a given string using c
21	Write a program to concatenate two strings using c

<u>DATA STRUCTURE LAB</u>		
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 Total No of Computers-36 Intel P-iv, 2.93 GHz, 512MB RAM,80GB HDD,1.44FDD 15" Monitor	Basic structure of a c-graphics program:
2		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 Total No of Systems-30 Intel® 3.30GHz,4GB RAM,500GB HDD, 17" Monitor	Define sql. write commands of create, alter, describe, drop in sql.
2		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.
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.
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 : 48mbps
- Number and configuration of System : 220 nos
- Total number of system connected by LAN : 220 nos
- Total number of system connected by WAN : Nil
- Major software packages available :5 nos
- Special purpose facilities available :15 nos
- Innovation Cell : Available
- Social Media Cell : Available

List of facilities available

- Games and Sports Facilities : Cricket, Football, Volleyball, Basket Ball, Badminton, Athletics, Multi Jim
- Extra-Curricular Activities : Debate, Essay Writing, Quiz
- Soft Skill Development Facilities : YES
- Teaching Learning Process
 - Curricula and syllabus for each of the programmes as approved by the University : Available in the Institute website : <https://www.driempolytechnic.org>
 - Academic Calendar of the University :
 - Academic Time Table with the name of the Faculty members handling the Course
<https://www.driempolytechnic.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

<u>Year</u>	<u>Regular</u>	<u>Lateral</u>
2021	365	39
2020	383	62
2019	280	29

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.dipcuttack.org/approval.php>

19. Accounted audited statement for the last three years :

Available in the Institute website :

<https://www.dipcuttack.org/audit-report.php>

20. Best Practices adopted, if any