MAHARAJA POLYTECHNIC

GAMAI,BHUBANESWAR, ODISHA

(APPROVED BY AICTE, NEW DELHI AND AFFILIATED TO SCTE&VT, DTET, ODISHA)

MANDATORY DISCLOSURE
AICTE

(DIPLOMA ENGINEERING PROGRAMME)

"The Information has been provided by the concerned Institution and the onus of authenticity lies with the Institution and not on AICTE."

01. Name of the Institution: - MAHARAJA POLYTECHNIC

Village	:	GAMAI
Taluka	:	JATANI
District	:	KHORDHA
State	:	ODISHA
Pin Code	:	7542054
STD Code	:	0674
Phone No	:	2384608
Fax No	:	2384608
E-mail	:	info.mp09@gmail.com

02. **NAME AND ADDRESS OF THE TRUST / SOCIETY / COMPANY AND THE TRUSTEES:**

NAME OF THE TRUST: **SONY FOUNDATION TRUST**

AT-RAYAGADA ODISHA,

PHONE: 0680-2492440 , MOBILE: 9437567525

E MAIL: info.mp09@gmail.com

03. NAME & ADDRESS OF THE PRINCIPAL:-

Name : **Prof. Gagan kumar Sahoo**
Address : **Maharaja Polytechnic**
At: Gamai
Po: Gangapada
District: khordha (Odisha)
Pin: 752054

Longitude: **85.38^0** Latitude: **20.49^0**

Telephone No : 9861464114
Fax No. :0674-2384608

Office hours at the Institution: 8.45 am to 3.45 pm

E-mail : gaganmay1984@gmail.com

Website : **www.mpolytechnic.edu.in**

Nearest Railway station (dist in Km): Khordha Road – 10 KM
Nearest Airport (dist in Km)-: Bhubaneswar-17 KM.

04. Type of Institution : Private-Self Financed.
Category (1) of the Institution : Non minority.
Category (2) of the Institution : Co-Education.

05. NAME OF THE AFFILIATING BODY:-

Name of the Affiliating Body	:	SCTE & VT
Address	:	Rajbhawan Square, Bhubaneswar, Odisha, Pin-751012
Website	:	https://sctevtodisha.nic.in
Name of the Affiliating Body	:	DTET, Odisha
Address	:	Buxi Bazar, Killa Maidan, Cuttack, Odisha 753001
Website	:	https://dtetodisha.gov.in

06. Governing Board Members:

1.	Chairman	Sri Manoj Kumar Palo
2.	Secretary	Mrs.Bhabani Debi Palo
3.	Trustee-Member	Mrs.Jharamani Palo
4	An Industrialist/ Technologist/Educationalist as nominated by the Concerned Trust –as Member	Dr.Biranci Narayan Panda
5	An Industrialist/ Technologist / Educationalist as nominated by the Concerned Trust-As Member	Sri Gopal Rao
6	Nominee of Affiliating Body, University/state Board of Tech Education	To be nominated bySCTE&VT We have written to the authority to send the name of the nominee and reply is awaited.
7	Nominee of the state Govt.	Director-Technical Education and Training. (As Ex-officio Member)
8	Principal of the Institution (Member Secretary, Ex-Officio)	Prof.Gagan kumar Sahoo Principal, Ex Officio Maharaja Polytechnic Member Secretary, Ex-Officio
9.	Faculty of the concerned Institute- as member nominated by concerned Trust	Prof. Umesh Prasad Rath
10.	Faculty of the concerned Institute- as member nominated by concerned Trust	Prof. Sagarika Das

08. Academic Advisory Body:

01) Prof. Umesh Prasad Rath
02) Prof. Sagarika Das
03) Prof.Binaya kumar Panda
04) Prof.lipsa Tannaya Mishra

09. GOVERNANCE:-

i) Member of the Board and their brief background:-

SONY FOUNDATION TRUST

1) Chairman — **Sri Manoj Kumar Palo**
Patrapada, Bhubaneswar, Dist. Khurdha

2) Secretary — **Mrs.Bhabani Debi Palo**
Patrapada, Bhubaneswar, Dist. Khurdha

ii) Governing Body

1. Sri Manoj Kumar Palo - Chairman
2. Mrs.Bhabani Debi Palo - Secretary
3. Mrs.Jharamani Palo - Member

4. Prof.Gagan kumar Sahoo - Member
5. AICTE Nominee - Member (To be nominated)
6. State Govt. Nominee - Member (To be suggested by the Govt. of Odisha)
7. Affiliating Body - Member (To be suggested by BPUT, Odisha)

iii) Frequency of the Board Meetings and Academic Advisory Body: - Thrice a year

iv) Organizational chart and process : -Enclosed in **Annexure – I**

v) Nature and Extent of involvement of faculty and students in academic affairs / Improvements:-

01) Academic Information System (AIS) is installed for developing and delivering teaching materials in academic affairs.
02) State of Art Technology is installed for conducting classes to enhance the quality of teaching.
03) Visuals and teaching adds on important courses, containing lecturers delivered by eminent professors are procured for the students.

vi) Mechanism / norms & procedure for democratic / good Governance:-

- Under the guidance of Trustees, Governing Council, Academic Advisory Body, the day-to-day operations of GATE is managed by Principal with help from HOD's and Faculty members with individual responsibility.

vii) Student Feedback on Institutional Governance/faculty performance:-

- Semester wise feedback system, regular faculty development program & faculty appraisal helps for the assessment of the performance of the faculty members.

viii) Grievance redressed mechanism for faculty, staff and students:-

- Complaints/Suggestion boxes are available at Open Corridor/Library/Hostels. Student's interaction with Principal and a separate grievance cell meeting on weekly basis to discuss the various day to day issues. Online grievance redressal mechanism is available.

ix) Establishment of Anti Ragging Committee: Constitution of Anti ragging Committee and Anti ragging squad is formed to look after the in disciplinary activities.

Constitution of Anti Ragging Committee:			
Sr. No.	**Name & Designation**	**Position**	**Contact number**
1.	Mr. Binaya kumar Panda Asso. Professor	Chairperson	9438430924
2.	Mr. Umesh Prasad Rath Asst. Professor	Vice Chairperson	966898388
3.	Mr. Abhinash Sahu Asst. Professor	Member	7735166394
4.	Mr. Ranjit Samantaraya Asst. Professor	Member	7609956765
5.	Mrs. Rajashree Pandia Asst. Professor	Member	8249510065
6.	Ms. Sanjibani sudha swain	Member	7978962193

	Asst. professor		
7.	Mr. R n Mishra Asst. Professor	Member	9438217327
8.	Mr. R p Mallia Asst. professor	Member	7008368257
9.	Mrs Pramila sahu Librarian	Member	9778179803
10.	Mr. Sanjaya kar Sr. Tech. Asst.	Member	6371412366

x) Establishment of Online Grievance Redressal Mechanism: Available

1. Prof.Gagan kumar Sahoo Principal (Chairperson) - 9861464114
2. Prof. Umesh Prasad Rath (OMBUDSMAN)-
3. Prof. Binaya kumar Panda (Convener) - 9438430924
4. Prof. R n Mishra (Co-Convenor) . - 9438217327
5. Prof. Sagarika das (Advisor) . - 6371844571
6. Prof. Prakash kumar Mallik -
7. Prof.Asima Sahoo -
8. Prof. laxman Majhi

xi) Establishment of Grievance Redressal Committee: Constituted

1. Prof.Gagan kumar Sahoo Principal (Chairperson) - 9861464114
2. Prof. Umesh Prasad Rath (OMBUDSMAN)-
3. Prof. Binaya kumar Panda (Convener) - 9438430924
4. Prof. R n Mishra (Co-Convenor) . - 9438217327
5. Prof. Sagarika das (Advisor) . - 6371844571
6. Prof. Prakash kumar Mallik -
7. Prof.Asima Sahoo -
8. Prof. laxman Majhi

xii) Establishment of Internal Compliant Committee: Constituted

1. Prof.Gagan kumar Sahoo Principal (Chairperson)
2. Prof Prof. Sagarika Das (Convener)
3. Prof. Bikash Chandra sahoo Co-convenor)
4. Prof. Binaya kumar Panda (Advisor)
5. Prof. Debahuti Panda
6. Prof. Subhashree Pradhan
7. Prof. Abhinash Sahu
8. Prof. Ranjit Samantaraya
9. Prof. laxman Majhi
10. Prof. Sammilani Moharana
11. Prof. Rajashree Pandia

xiv) Establishment of Committee for SC/ST: Constituted

Constitution of SC/ST Grievance Redressal Cell:			
Sr. No.	**Name & Designation**	**Position**	**Contact number**
1.	Mr. Bikash Ch Sahoo Asso. Professor	Chairperson	9937852343

2.	Mr. Abhinash Sahu Asst. professor	Vice Chairperson	7735166394
3.	Mr. Asish ku Giri Asst. Professor	Member	7008359769
4.	Mr. A. K. Pradhan Asst. Professor	Member	7008005080
5.	Mr. Rabinarayan Mishra Asst. Professor	Member	9348217327

xv) Internal Quality Assurance Cell: Constituted

10. PROGRAMMES:-

(i) Name of the Programs approved by the AICTE:-

Diploma Engineering & Technology in

1) Electronics & Communication Engineering-60INTAKE
2) Mechanical Engineering-180 INTAKE
3) Civil Engineering-60 INTAKE
4) Electrical Engineering-120 INTAKE

(ii) Name of the Programs accredited by NBA- NIL

NBA Accreditation Status		
1	Name / List of Programmes / Courses Accredited	Not Accredited
2	Applied for Accreditation	--
	A. Applied but Visit not happened	--
	B. Visit happened but result awaited	--
3	List of Programmes / Courses not applied	Diploma in Engg &Technology

Name of the Programs accredited by NAAC- NIL

NAAC Accreditation Status		
1	Accredited	Not Accredited
2	Applied for Accreditation	--
	A. Applied but visit not happened	--
	B. Visit happened but result awaited	--
3	List of Programmes / Courses not applied	Diploma in Engg &Technology

(iii) For each Program the following details are given:-

A) DIPLOMA:-

Name : Diploma in Engineering &Technology

Number of seats : 420

Duration : 3 years

Cut of mark/rank for admission During the last three years : Centralized counseling conducted by (Qualified students from Diploma Entrance Test (DTET Orissa)

Fee : 26,500/- **(per year)**

Placement facilities : Available

Campus placement in last three Years with :

Minimum salary, : **1.5 Lakh Per annum**
Maximum salary : **3.5 Lakh Per annum**
and Average salary : **2.0 Lakh Per annum**

Cut of mark/rank for admission During the last three years : Centralized counseling conducted by DTET

PLACEMENT STATUS:

Sl No	Name of the Course	Branch	2018-19	2019-20	2020-21	Total No. of students placed during last three years
2	**Diploma**	MECHANICAL ENGINEERING	**33**	**29**	**21**	**93**
3	**Diploma**	CIVILENGINEERING	**9**	**7**	**8**	**24**
4	**Diploma**	ELECTRICAL ENGINEERING	**24**	**21**	**23**	**68**
5	**Diploma**	ELECTRONICS AND COMMUNICATION ENGG.	**8**	**9**	**9**	**26**

Name and duration of programme (s) having affiliation / collaboration with Foreign University(s)/Institution(s) and being run in the same campus along with status of their AICTE approval. If there is foreign collaboration, give the following detail.

- Note: - None of our programme (s) is having affiliating / collaboration with Foreign University(s) / Institution(s) and none of other programme (s) being run in the same campus along with status of AICTE.

b) Details of the Foreign Institution / University:- - No foreign University Collaborative

c) For each Collaborative/affiliated programme give the following: - Non Collaborative

d) Whether the collaborative programme is approved by AICTE? If not whether the Domestic/Foreign Institution has applied to AICTE for approval as required under notification no. 37-3/Legal/2005 dated 16th May, 2005 – Not Applicable

Name and duration of programme (s) having affiliation / collaboration with Foreign University(s)/Institution(s) and being run in the same campus along with status of their AICTE approval. If there is foreign collaboration, give the following detail.

- Note:-None of our Programme (s) is having affiliating / collaboration with Foreign University(s) / Institution(s) and none of other programme (s) being run in the same campus along with status of AICTE.

b) Details of the Foreign Institution / University:- Not applicable

c) For each Collaborative/affiliated programme give the following: Not applicable

d) Whether the collaborative programme is approved by AICTE? If not whether the Domestic/Foreign Institution has applied to AICTE for approval as required under notification no. 37-3/Legal/2005 dated 16th May, 2005 - **Not applicable**

11. FACULTY:-

(i) Branch wise list of faculty members:-

(This institute got its approval on 2009. Since this is its eleventh year's programme, Hence the calculation of Student/ Faculty Ratio should be taken on overall basis.)

No of Faculty	:	53
Visiting Faculty	:	Nil
Adjunct Faculty	:	Nil
Guest Faculty	:	Nil
Permanent Faculty: Student Ratio	:	1:25

(ii) Number of faculty employed(E) at present for the academic year 2021-22 :-

Sl No	Branch	Professor	Assistance Professor	Lecturer	Total No. of Faulty
01	Civil Engineering	00	02	10	12
02	Mechanical Engineering	00	03	15	18
03	Electrical Engineering	01	02	09	12
05	Electronic & Tele-Comm. Engineering	00	01	02	03
06	Basic Science & Humanity	00	02	04	06

12. PROFILE OF PRINCIPAL WITH QUALIFICATION, TOTAL EXPERIENCE, AGE AND DURATION OF EMPLOYMENT AT THE INSTITUTE CONCERNED:-

(i)

Name	:	**Prof. Gagan kumar Sahoo**
Date of Birth	:	03/05/1984
Age	:	38yrs
Academic qualifications (with field of specialization)		: M.Tech, B.Tech,
Details of Experience (Academic / Industrial)	:	Teaching: 12Years Research: 1 years
Area of specialization	:	Power System ENGINEERING
Subject Teaching at Under Graduate Level	:	EM,PSOCC, Fluid Mechanics, Power Plant Engg. Project Mgt.
No of paper published	:	National Journals (3 Nos.) International Journals (1 Nos)
Projects carried out	:	10 Nos.
Patents	:	01 nos
Technology Transfer	:	--
Research Publications	:	4 Nos

Date of the appointment in the present institution: 18/01/2019

Duration of employment at the Institute concerned: Continuing

(ii) For each faculty give a page covering: ▸ Note:- Enclosed in **Annexure – IX**

(Separate sheet for each faculty in department wise as per format)

13. FEE :-

(i) Details of fee, as approved by State fee Committee, for the Institution:-
For Diploma:

▸ First Year:-

Tuition Fee	**22500.00**
Facility Fees	**--**
Placement Training	**2500.00**
Staff and Student Welfare	**--**
Cost of Uniform, Blazer, Tie, Crest, Hanger ,T.Shirt & Uniform(One time charge)	**2500.00**
Refundable Security Deposit (One time charge)	**2500.00**
Transport	**10000.00**
Total	**40,000.00**
Accommodation with fooding	**34000.00**

Hostel

(i) The college has its own hostel for boys and girls. Furniture, electrical fittings, News Paper, Magazines, TV, Telephone, Aqua Guard, Salary to mess staff, doctor ward boys, ad manager, sweepers, scavengers and cost of disinfectants, detergents, acids vacuum cleaning and cost of maintenance of electrical gadgets besides tube lights, fans motor pumps and host of other incidental expenses related to maintenance of hostels are provided to each borderer.

(i) Time scheduled for payment of fee for the entire program:-

Institute is providing two installment process for payment of fees i.e. In the beginning of the academic year and second before commencement of even semester Examination.

(ii) No. of fee waiver granted with amount and name of students:- Nil

(iii) Number of scholarship offered by the Institute, duration and amount:- One

Sl.No.	Name of Scholarship	Duration	Amount
1)	Chairman's Scholarship	One year	Rs. 3,00,000/-

(iv) Criteria for fee waivers/scholarship :-

▸ Income certificate of his father or his family member.
On merit basis secured in Diploma Entrance Test (Rank holders)
Carrier meritious students (Academic 10th & ITI)

(v) Estimated cost of boarding and lodging in hostels: -**Rs. 34,000 /- p.a.**

14. ADMISSION:-

(i)Number of seats sanctioned with the year of approval:-240 seats

File No with date of first approval: F.No : ERO/AICTE/OR/ET/006/2008-09Dated : 14/07/2009

(ii) Number of students admitted under various categories each year in the last three years:-

SL NO	YEAR	Diploma/BRANCH	TOTAL INTAKE	TOTAL NO OF ADMITTED STUDENTS
1	2018-19	CIVIL	60	32
		MECH	180	85
		EE	120	63
		ECE	60	29
2	2019-20	CIVIL	60	34
		MECH	180	79
		EE	120	72
		ECE	60	19
3	2020-21	CIVIL	60	53
		MECH	180	62
		EE	120	74
		ECE	60	60

15. ADMISSION PROCEDURE:-

(i) Mention the admission test being followed, name and address of Test Agency and its URL(website) :- https://samsodisha.gov.in/

- DTET.(Diploma Entrance Test , Orissa), DTET, Khilamunda, Cuttack , Orissa, https://samsodisha.gov.in/

(ii) Number of seats allotted to different Test Qualified candidates separately [DTET) (State conducted test/University tests)/ Associated conducted test]:-

- 100% of the total seats is filled through DTET counseling, Odisha,

Calendar for admission against management/vacant seats:-

a) Last date for request for applications :

- As per the guideline of admission rules/procedure prescribed by DTET (Odisha).

b) Last date for submission of application:

- As per the guideline of admission rules/procedure prescribed by DTET (Odisha).

c) Date of announcing final results :

- As per the guideline of admission rules/procedure prescribed by DTET (Odisha).

d) Release of admission list (main list and waiting list should be announced on the same day):

- As the seats are being filled through the central counseling conducted by SAMS (Odisha) the institution has no such list of its own. Details are available at www.jeeodisha.com

e) Date for acceptance by the candidate (time given should in no case be less than 15 days) :

- As per the guidelines of Industries Department and DTET (Odisha).

f) Last date for closing of admission : 15th August of every year

- As per the guideline of admission rules/procedure prescribed by DTET, Odisha.

g) Starting of the Academic session : Third week of August of every year

h) The waiting list should be activated only on the expiry of date of main list:

- As the admissions are through SAMS central counseling, hence no waiting list is being maintained by the institute.

i) The policy of refund of the fee, in case of withdrawal, should be clearly notified:

- The Institute is refunding the fees after receiving seat cancellation letter from the student/parent and the same is communicated to the SCTE & VT as per the guidelines of DTET, Odisha.

16. 1. ELIGIBILITY CRITERIA FOR ADMISSION TO 1ST SEMESTER DIPLOMA IN ENGINEERING/ TECHNOLOGY

Sl. No	COURSE	DURATION	ENTRY QUALIFICATION	AGE AS ON 1.7.2021.
1	1st semester diploma courses (All Engineering except Mining & Drilling)	3 years	Pass in HSC examination conducted by BSE, Odisha/ 10th standard examination declared equivalent by BSE, Odisha and obtained at least 35 % marks in aggregate, securing 30% marks in each subject at the qualifying examination with English, Math & Science subjects.	Lower age 14 years and Upper age – No bar
2	1st semester diploma courses (Mining & Drilling Engineering)	3 years	Pass in HSC examination conducted by BSE, Odisha/ 10th standard examination declared equivalent by BSE, Odisha and obtained at least 35 % marks in aggregate, securing 30% marks in each subject at the qualifying examination with English, Math & Science subjects.	Lower age 16 years and Upper age – No bar

2.ELIGIBILITY FOR ADMISSION TO 3RD SEMESTER DIPLOMA IN NGINEERING/ TECHNOLOGY UNDER LATERAL ENTRY

1	Third semester diploma courses (Lateral admission for eligible branches only)	2 years	Pass in +2 Science Examination from CHSE, Odisha or its equivalent examination with PCM / +2 Vocational (2 years course) in any Engineering Trades /2 years ITI in Engineering Trade/COE Trade with pass in HSC examination conducted by BSE, Odisha/ 10th standard examination declared equivalent by BSE, Odisha, securing 30% marks in each subject at the qualifying examination.	Lower age 14 years and Upper age – No bar(For Mining & Drilling Engg- Lower Age 16 years & no bar in upper age)

The outside state candidates who have prosecuted their study for the qualifying examination in an Institution having approval from the Competent Authority are allowed for admission under Lateral Entry. A separate merit list shall be drawn for such outside state candidates and they will be allowed for admission in the remaining vacant seats, if any, after the state merit list is fully exhausted through web based e-counseling conducted by the Diploma Admission Committee.

N.B.

A.The list of 10th standard / HSC examinations of other Boards, declared equivalent by BSE, Odisha is available in its website i.e. www.bseorissa.in

B. In case of compartmental pass, the marks secured in first chance examination shall be considered for calculating the minimum percentage marks at the qualifying examination.

1. **+2 Science with PCM / +2 Vocational (2 years course) pass out students in any Engineering Trades and HSC / 10thstandard examination declared equivalent by BSE, Odisha Pass with 2 years ITI pass certificate shall be admitted against 10% supernumerary seats under Lateral Entry in Govt. / Private Institutions.**
2. ITI / +2 Vocational (2 years course) pass out students in any Engineering Trades are eligible for admission to 80% seats of Lateral Entry in any discipline of Diploma Engineering Programme. For the rest 20% seats, +2 Science Pass out with PCM are eligible under Lateral Entry in Diploma Engineering programme(vide G.O. No. IXTTI-8/2009/4624/I, dt.26.03.2010)
3. Seats remaining vacant in either of the aforesaid category will be filled up from other category and vice-versa as the case may be.
4. In case of under Matric, 2 years ITI Engineering Trade courses, the candidates should have passed HSC conducted by BSE, Odisha/ 10th standard examination declared equivalent by BSE, Odisha at the time of the application for admission to Diploma courses under Lateral Entry.
5. Regarding COE Trade, the candidate should have passed one year BBBT & 6 months Advanced Module. He/she has to produce the completion certificate of Specialized Module issued from the concerned Principal.
6. The ITI candidates having Computer Operator and Programming Assistant (+2 entry level qualifications) are eligible for admission to only Computer Science & Engineering and Information Technology branch under lateral entry.
7. The ITI candidates passing 2 years duration dual system training in engineering trade duly approved by NCVT are also eligible for admission into lateral entry.
8. No admission will be done under Lateral Entry in Architecture Assistantship, all non- engineering courses .
9. The percentage of marks shall be arrived at by dividing the total marks obtained by the candidate in all the subjects irrespective of optional/additional optional subject, if any.

C.

1. To avail reservation, the candidate must be permanent resident of Odisha, however, the children/ ward of all India Civil Service Officers serving in the State can avail the reservation in all category except ST, SC.

2. For admission to 3rd Semester Diploma Course under Lateral Entry, the candidate must be a permanent resident of Odisha. However the outside state candidates are allowed for admission to 3rd semester Diploma courses under lateral entry subject to fulfilling the criteria mentioned above at 3.1 D.

3.The Govt. of Odisha / Diploma Admission Committee-2021 will not be responsible for any regulation of service/ employment where different requirement of age & other eligibility criteria exists. The candidate should take admission at his / her own risk as regard to age & other eligibility criteria regarding regulation of service.

4.Some seats in Diploma Courses outside the State are allotted by MHRD / AICTE for Odisha State Candidates. Minimum eligibility criteria and age limits as applicable in the concerned States/Institutes will be followed for admission to those seats. The candidates are advised to visit their website before participating in the admission process. The allotted seats in different states during 2020-21are reflected at Chapter-6 as an indicator. However the latest allotted seats during 2021-22 will be reflected in our website: www.dtetodisha.gov.inbefore commencement of counseling.

17. APPLICATION FORM:-

(i) Downloadable application form, with online submission possibilities:-

- SAMS -Odisha reserves all rights for selling of the application forms.

18. LIST OF APPLICANTS:-

(i) All the applications are received by SAMS., Odisha and the admission is undertaken through central counseling based on DTET ranks.

- The SAMS, Odisha is maintaining the list. All vacancy seats after round of counseling shall be filled at the college level as per the notification of Department of Skill Development and Technical Education, Govt. of Orissa.

19. INFORMATION ON INFRASTRUCTURE AND OTHER RESOURCES AVAILABLE:-

- Total Area of Class rooms available for Diploma Engineering Courses with size of each: 1254 SqM. 66 SqM
- Total Area of Tutorial Rooms available for Diploma Engineering Courses with size of each: 165 sqM, 33 SqM
- Total Area of Laboratories available for Diploma Engineering Courses with size of each: 1984 SqM & 66 SqM
- Total Area of Drawing Halls available for Diploma Engineering Courses with size of each: 132 SqM
- Total Area of workshop available for Diploma Engineering Courses with size of each: 200SqM
- Total Area of Additional workshop available for Diploma Engineering Courses with size of each: 332 SqM, 166 Sqm
- Total Area of Seminar Halls available for both Diploma Engineering Courses with size of each: 1 nos & 132 SqM
- Total Area of Computer Centers available Diploma Engineering Courses with size of each: 150SqM
- Central Examination Facility, Number of Rooms and Capacity of each: 1 & 75 SqM
- **Barrier Free Built Environment for disabled and elderly persons**: Available
- **Occupancy Certificate**: Procured
- **Fire and Safety Certificate**: Procured
- **Hostel Facility**: Available for both Boys and Girls

- Number of Classrooms and size of each :- 24 & 66 SqM
- Number of Tutorial rooms and size of each :- 5nos & 33 SqM
- Number of Laboratories and size of each :- 30 nos & 66 SqM
- Number of drawing halls and size of each :- 01 no & 132 SqM

- Number of Computer Center with capacity :- 01 Nos & 150 SqM
- Central Examination Facility :- Available

20. LIBRARY

a) Number of Library books/Titles/Journals available(Programme-wise):-

- Total No. of Volumes available for all Programmes [Diploma]: 80588 Nos
- Total No. of Titles available for all Programmes [Diploma]: 1245 Nos

b) List of online National/International Journals subscribed:-

- **National Journals : 08**
- **International Journals : 04**

c) E-Library facilities: - Yes Available with MOOCs center.

21. **LABORATORY :-** 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		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.

	COMMUNICATION ENGG.-I LAB		
2		FM MODULATION TRAINER KIT, FOSTER SELEY EMODULATION 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 icrowave 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
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 – CE LAB

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'sabrasationm/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-LK3071Company –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 cd from venturimeter iii)-Determination of cc,cv,cd 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 stabilized	i)-Study & demonstration of journal bearing apparatus (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)

22. COMPUTING FACILITIES:-

a) Number of configuration of systems: -

Desktop
Desktop with Intel Core Due Processor, 256 GB HDD, 2GB RAM, 2.20 GHz = Nos. 190
Printer: 12 Nos **Scanner – 02 Nos** **Xerox – 02 Nos** **Color Printer- 01 Nos**

b) Total number of systems connected by LAN :- 170 nos

c) Total number of systems connected to WAN :- -----

d) Internet bandwidth:- 100 Mbps : Optical Fibre line from BSNL Network

e) Major software packages available: - Available
i. Windows 98, Windows 2003 server, Linux 9.0, Microsoft windows, XP,
ii.MSDN Academic Alliance Ver-7 Full Pack, Borland C++, MS Office 2007, Oracle -10, Oracle-8, Adobe Photoshop-7, Matlab-7, Java-3.0, Tally-9.0, Autocad-2007-2010.

f) Special purpose facilities available:- Yes available for conducting of online Meeting/Webinars/Workshops etc.

g) Facilities for conduct of classes / Courses in online mode (Theory & Practical) : Yes available

h) Social Media Cell: Available

23. **WORKSHOP: - Basic work Shop and Addl work shop with 200 Sq. Mt each**
24. **List of Other Academic facilities available**.

- Games and Sports facilities :- Available
- Extra Curriculum Activities :- Available
- Soft Skill Development Facilities :- Available

25. Teaching Learning Process:-

a) Curricula and syllabi for each of the programmes as approved by the University :- Available on **https://sctevtodisha.nic.in**

b) Academic Calendar of the Affiliating Boby :- Yes Available on **https://sctevtodisha.nic.in/en/**

c) Academic Time Table :-Yes Available on **college website**

d) Teaching Load of each Faculty :- Lacturer: 16 hours per week
Asst. Professor: 12 hours per week
Professor: 06 hours per week

e) Internal Continuous Evaluation System in Place :- Yes Available

- The syllabus is distributed over a number of semesters. Grasp and knowledge of the subject is evaluated in bits continuously and periodically thereby putting lesser burden on the student as compared to evaluation by one examination at the end of the session.
- The courses allotted for a particular semester are completed by the end of the semester and also examined and evaluated simultaneously, thereby reducing the amount of material to be studied at one time.
- The mode of evaluation is also varied, depending upon the nature of the subjects and topics. In general, the following components of evaluation are adopted:

Theory Course	Practical Course
Class Tests	Records
Assignments	Experiments
Seminars & Group Discussions	Viva-voce
Attendance	Attendance
End-semester Examination	End-semester Examination

- The student's performance is assessed throughout the semester by continuous evaluation followed by an end-semester examination which covers the entire syllabus.
- The number of credits allotted to each course depends on the relative time a student is expected to devote for the respective course.

- Each component of evaluation is assigned a certain weight age towards the computation of over-all performance in each course.

- Mark grade sheet is issued by University after evaluation of each semester and the declaration of the result of each academic session is based on student's performance over both the semesters of the session. An academic session means both the semesters of the session taken together.

- The student's performance for a session is indicated through a result card issued to the student after each even end-semester examination of a session which shows his achievements in each of the courses registered for.

f) Student's assessment of Faculty System in place :- Yes Available

- Feedback about Faculty is taken from students twice a semester. The various parameters on which teaching is assessed are: Communication Skills, Quality of Teaching/ Academic input, Subject Knowledge, Content and Method of Delivery, Resourcefulness, Readiness of teacher, Accessibility and Availability of Teacher in Campus/ Department. Feedback is signed by the Principal and conveyed to the faculty by respective Head of the Department. Counseling of faculty having feedback is carried out by Head of the Department as well as by the Principal for his/her improvement.

26. FOR EACH POST GRADUATE PROGRAMME GIVE FOLLOWING:

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27. Enrollment and Placement details of students in the last three years: Refer Sl.10 &14.

28. List of Research Projects / Consultancy Works:

- **No.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:** The Institute made MoUs with five industries for industry linkages to provide demand-driven industry-relevant training opportunities and would work with industries with an aim to bridging the skill gap and provide demand-based skilled manpower to industries which would in turn add new jobs.

- **MoUs with Industries:** Made MoUs with five Industries to carry out Internship to the students on regular basis.

29. LoA and subsequent EoA till the current Academic Year: Got approved by AICTE, New Delhi and the copies are available in college website www.mpolytechnic.edu.in

Sl. No	Year of Approval	Intake	Approval Referenece No.
1	2009-10	ME-60 EE-60 ECE-60 CE-60	ERO/AICTE/OR/ET/006/2008-09 Dated : 14/07/2009
2	2010-11	ME60 EE-60 ECE-60 CE-60	ERO/AICTE/OR/ET/26/2009-10/5220 Dated : 29/06/2010
3	2011-12	ME-120 EE-60 ECE-60 CE-60	Eastern/1-444216191/2011/EOA Dated 01/09/2011
4	2012-13	ME-120 EE120	Eastern/1-734661603/2012/EOA

		ECE-60 CE-60	Dated : 10/05/2012
5	2013-14	ME-120 EE-120 ECE-60 CE-60	Eastern/1-1450061263/2013/EOA Dated : 19/03/2013
6	2014-15	ME-180 EE-120 ECE-60 CE-60	Eastern/1-201298862995/2014/EOA Dated : 11/03/2014
7	2015-16	ME-180 EE-120 ECE-60 CE-60	Eastern/1-2451453819/2015/EOA Dated : 07/04/2015
8	2016-17	ME-180 EE-120 ECE-60 CE-60	Eastern/1-2811898514/2016/EOA Dated: 05/04/2016
9	2017-18	ME-180 EE-120 ECE-60 CE-60	Eastern/1-3324463936/2017/EOA Dated : 30/03/2017
10	2018-19	ME-180 EE-120 ECE-60 CE-60	Eastern/1-3509290605/2018/EOA Dated : 04/04/2018
11	2019-20	ME-180 EE-120 ECE-60 CE-60	Eastern/1-4259606923/2019/EOA Dated :30/04/2019
12	2020-21	ME-180 EE-120 ECE-60 CE-60	Eastern/1-7012579210/2020/EOA Dated : 30/04/2020
13	2021-22	ME-180 EE-120 ECE-60 CE-60	Eastern/1-9317985954/2021/EOA Dated : 25/06/2021

Sd/-
Prof.Gagan kumar Sahoo
PRINCIPAL