MANDATORY DISCLOSURES
2026-27

1.	Name of the Institution (Address including Telephone, Mobile, E-Mail)	:	SEEMANTA ENGINEERING COLLEGE, MAYURBHANJ AT- MAYURVIHAR, VILL- JAUNTI, PO- JHARPOKHARIA DIST- MAYURBHANJ, STATE- ODISHA, 757086 TEL: (06791) 222808 MOB : 7381244960 E-mail: principal@seemantaengg.ac.in
2.	Name and address of the Trust/ Society/ Company and the Trustees (Address including Telephone, Mobile, E-Mail)	:	SEEMANTA MAHAVIDYALAYA SAMITI AT - JHARPOKHARIA, DIST- MAYURBHANJ, STATE- ODISHA,757086 TEL: (06791) 222808 MOB : 7381244960 E-mail: principal@seemantaengg.ac.in
3.	Name and Address of the Vice Chancellor/ Principal/Director (Address including Telephone, Mobile, E-Mail)	:	Dr. BINOD KUMAR PRUSTY PRINCIPAL SEEMANTA ENGINEERING COLLEGE, MAYURBHANJ, JHARPOKHARIA TEL: (06791) 222808 MOB : 9556180150 e-mail: principal@seemantaengg.ac.in
4.	Name of the affiliating University	:	BIJU PATTANAIK UNIVERSITY OF TECHNOLOGY, ROURKELA
5.	Governance		
	i. Organizational chart	:	ANNEXURE-1
	ii. Grievance Redressal mechanism for Faculty, staff and students	:	YES, ANNEXURE-2
	iii. Establishment of Anti Ragging Committee	:	YES, ANNEXURE-3
	iv. Establishment of Online Grievance Redressal Mechanism	:	YES, ANNEXURE-4
	v. Details of Grievance Redressal Committee in the Institution and OMBUDSMAN by the University	:	ANNEXURE-5
	vi. Establishment of Internal Committee (IC)	:	YES, ANNEXURE-6
	vii. Establishment of Committee for SC/ST	:	YES, ANNEXURE-7
	viii. Internal Quality Assurance Cell	:	YES, ANNEXURE-8
	ix. Equal Opportunity facilities Cell.	:	YES, ANNEXURE-9
6.	Programmes		
	i. Name of Programmes approved by AICTE	:	B.TECH ; M.TECH, MCA, DIPLOMA
	ii. Name of Programmes Accredited by NBA	:	NA
	iii. Status of Accreditation of the Courses	:	NA
	iv. Total number of Courses	:	12

v. For each Programme the following details are to be given (Preferably in Tabular form):

Programme(s)	Name	Number of Seats	Duration	Cut off marks/rank of admission during the last years
B. Tech.	Electronics And Telecommunication Engineering	60	4	
	Computer Science And Engineering	60	4	
	Electrical Engineering	60	4	
	Mechanical Engineering	120	4	
	Civil Engineering	60	4	
	Electrical And Electronics Engineering	30	4	
M. Tech.	Electrical Engineering	18	2	
	Mechanical Engineering	18	2	
MCA	Masters In Computer Applications	30	2	
Diploma	Civil Engineering	60	3	
	Mechanical Engineering	60	3	
	Electrical Engineering	60	3	

vi. Fee (as approved by the state government) : Yes

vii. Name and duration of Programme(s) having Twinning and Collaboration with Foreign University(s) and being run in the same Campus along with status of their AICTE approval. If there is Foreign Collaboration, give the following details, if any:

a. Details of the Foreign University, if any : NA
b. Name of the University : NA
c. Address : NA
d. Website : NA
e. Accreditation status of the University in its Home Country : NA
f. Ranking of the University in the Home Country : NA
g. Whether the degree offered is equivalent to an Indian Degree? If yes, the name of the agency which has approved equivalence. If no, implications for students in terms of pursuit of higher studies in India and abroad and job both within and outside the country : NA

viii. Nature of Collaboration : NA
ix. Complete details of payment a student has to make to get the full benefit of Collaboration : NA
x. For each Programme Collaborated provide the following : NA
xi. Programme Focus : NA
xii. Number of seats : NA
xiii. Admission Procedure : NA
xiv. Fee (as approved by the state government) : NA
xv. Whether the Collaboration Programme is approved by AICTE? If not whether the Domestic/ Foreign University has applied to AICTE for approval : NA

7. Faculty : ANNEXURE-10

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

i.	Name	:	Dr. BINOD KUMAR PRUSTY
ii.	Date of Birth	:	28/08/1979
iii.	Unique ID	:	1-19367911
iv.	Education Qualifications	:	Ph.D.
v.	Work Experience	:	21 Years
vi.	Teaching/ Research/ Industry/ Others	:	Teaching: 21 Yrs
vii.	Area of Specialization	:	POWER SYSTEM
viii.	Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	:	**Under Graduate:** Power Electronic, A.C. and D.C. Machines, Transmission and Distribution, Network Theory, Basic Electrical Engineering, etc. **Post Graduate:** Power system Dynamics, Smart electrical energy system, HVDC Transmission & FACTS, Green Energy Resources and Technology.
ix.	Research guidance (Number of Students)	:	M. Tech.: 09 Ph.D.:01
x.	No. of papers published in National/International Journals/Conferences	:	10
xi.	Master (Completed/Ongoing)	:	Completed
xii.	Ph.D. (Completed/Ongoing)	:	Completed
xiii.	Projects Carried out	:	NIL
xiv.	Patents (Filed & Granted)	:	NIL
xv.	Technology Transfer	:	NIL
xvi.	Research Publications (No. of papers published in National/International Journals/Conferences)	:	**International Journals: 06 nos.** International Conferences: 03 no. National Conferences: 01 no.
xvii.	No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	:	NIL

9. Fee : ANNEXURE-11

i.	No. of Fee waivers granted with amount and name of students	:	
ii.	Number of scholarship offered by the Institution, duration and amount	:	

10. Admission

i.	Number of seats sanctioned with the year of approval	:	EoA (2026-27) Eastern/1-46219694723/2026/EOA Dated 16-March-2026 by AICTE; BPUT / Affl. / 4514/07-07-2025; ANNEXURE-12
ii.	Number of Students admitted under various categories each year in the last three years	:	ANNEXURE-13
iii.	Number of applications received during last year for admission under Management Quota and number admitted	:	NA

11. Admission Procedure

i.	Mention the admission test being followed, name and address of the Test Agency/State Admission Authorities and its URL (website)	:	Through JEE Main & OJEE Examination
ii.	Number of seats allotted to different Test Qualified candidate separately (AIEEE//JEE/ CET (State conducted test/ University tests/ CMAT)/ Association conducted test etc.)	:	
iii.	Calendar for admission against Management quota seats	:	
iv.	Last date of request for applications	:	
v.	Last date of submission of applications	:	

vi.	Dates for announcing final results	:	
vii.	Release of admission list (main list and waiting list shall be announced on the same day)	:	
viii.	Date for acceptance by the candidate (time given shall in no case be less than 15 days)	:	
ix.	Last date for closing of admission & Starting of the Academic session	:	
x.	The waiting list shall be activated only on the expiry of date of main list	:	
xi.	The policy of refund of the Fee, in case of withdrawal, shall be clearly notified	:	

12.	Criteria and Weightages for Admission	:	Through JEE Main & OJEE Examination
i.	Describe each criterion with its respective weightages i.e. Admission Test, marks in qualifying examination etc	:	
ii.	Mention the minimum Level of acceptance, if any	:	
iii.	Mention the cut-off Levels of percentage and percentile score of the candidates in the admission test for the last three years	:	
iv.	Display marks scored in Test etc. and in aggregate for all candidates who were admitted	:	

13.	List of Applicants		
i.	List of candidate whose applications have been received along with percentile/percentages core for each of the qualifying examination in separate categories for open seats.	:	NA
ii.	List of candidate who have applied along with percentage and percentile score for Management quota seats (merit wise)	:	NA

14.	Results of Admission Under Management seats/Vacant seat		
i.	Composition of selection team for admission under Management Quota	:	NA
ii.	List of candidate who have been offered admission	:	NA
iii.	Waiting list of the candidate in order of merit to be operative from the last date of joining of the first list candidate	:	NA

15.	Information of Infrastructure and Other Resources Available		
i.	Number of Class Rooms and size of each	:	ANNEXURE-14
ii.	Number of Tutorial rooms and size of each	:	ANNEXURE-14
iii.	Number of Laboratories and size of each	:	ANNEXURE-14
iv.	Number of Computer Centers with capacity of each	:	ANNEXURE-14
v.	Central Examination Facility, Number of rooms and capacity of each	:	ANNEXURE-14
vi.	Online examination facility (Number of Nodes, Internet band width, etc.)	:	YES Internet Bandwidth: 100 Mbps
vii.	Barrier Free Built Environment for disabled and elderly persons	:	YES, ANNEXURE-15
viii.	Fire and Safety Certificate	:	Applied
ix.	Hostel Facilities	:	YES
x.	Number of Library books/E-books/Titles/Journals available (Programme-wise):		

Sr. No.	Programme	Number of Volumes	Number of Titles	E-Books	Journal Available
1	ENGINEERING AND TECHNOLOGY	52430	4262	DELNET	DELNET
2	MCA	6925	365	DELNET	DELNET

xi.	List of online National/International Journals subscribed	:	ANNEXURE-16
xii.	National Digital Library (NDL) subscription details	:	http://club.ndl.iitkgp.ac.in/club-home
xiii.	List of Major Equipment/Facilities in each Laboratory/Workshop	:	ANNEXURE-17
xiv.	List of Experimental Setup in each Laboratory/Workshop	:	ANNEXURE-18
xv.	Innovation Cell	:	YES, ANNEXURE-19
xvi.	Social Media Cell	:	YES, ANNEXURE-20
xvii.	Compliance of the Academic Bank of Credit (ABC), applicable to PGCM/ PGDM Institutions and University Department	:	ANNEXURE-21
xviii.	To upload the respective short video (1-2 min) of Infrastructure and facilities available w.r.t the courses in the website	:	https://www.youtube.com/watch?v=OI6ragVpSJ8
xix.	Games and Sports Facilities	:	YES
xx.	Teaching Learning Process	:	YES
xxi.	For each Post Graduate Courses give the following	:	
xxii.	Title of the Course	:	
xxiii.	Laboratory facilities exclusive to the Post Graduate Course	:	

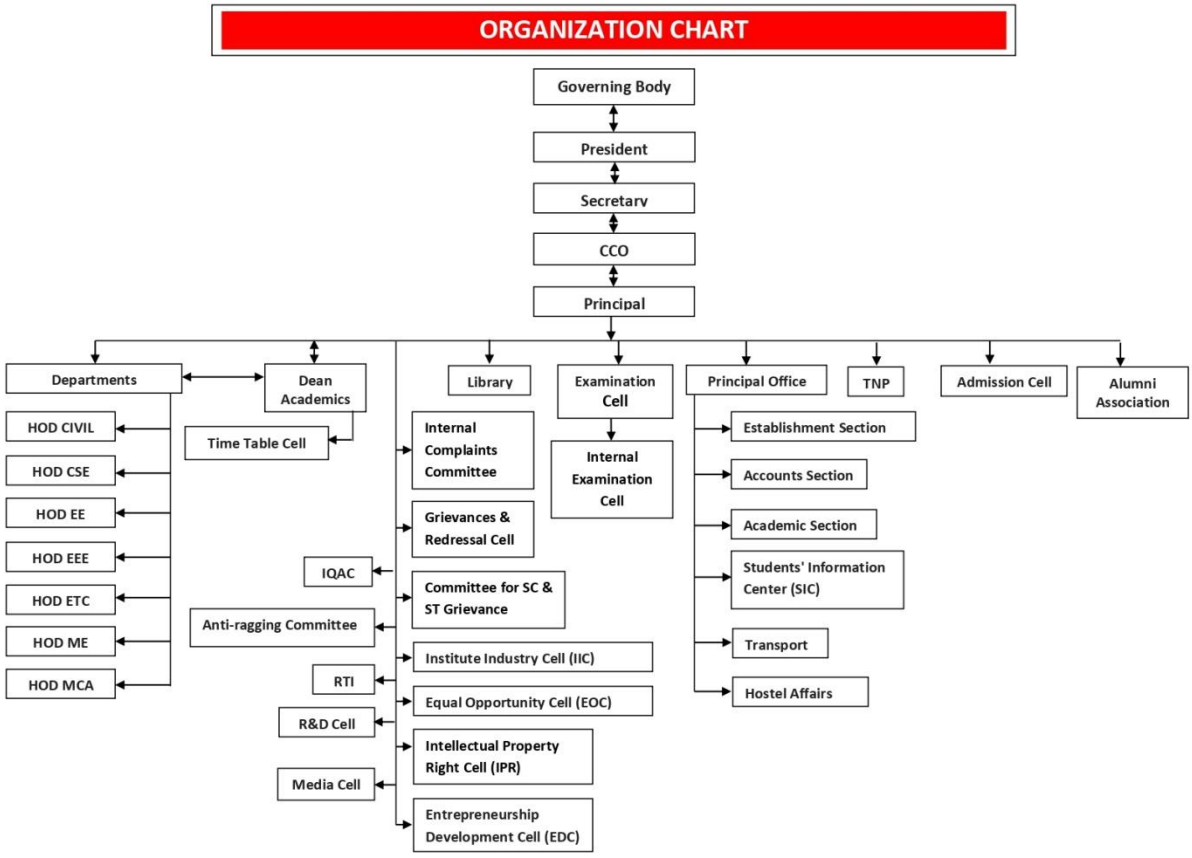
16. Enrolment and placement details of students in the last 3years : ANNEXURE-22

17. List of Research Projects/Consultancy Works : NIL

18. MoUs with Industries : ANNEXURE-23

ANNEXURE - 1

Organization Chart:



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Letter No. SEC/1293/25 Date 27/09/2025

GRIEVANCE REDRESSAL CELL

Grievance Redressal Cell is revised with the following members.

1. Prof. (Dr.) Prasanta Nayak, Principal, Chairperson
2. Prof. (Dr.) A. K. Sahu, Dean, Academic, Convenor
3. Dr. M. K. Dash, Professor, Dept. of Chemistry, Member
4. Mr. S. K. Dandapat, Associate Prof., Dept. of EEE, Member
5. Dr. Jyotiprava Mohanta, Associate Prof., Dept. of ETC, Member

Principal
SEC, Mayurbhanj, Jharpokharia
Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

Memo No. 1294(5) Dt. 27/09/2025

Copy forwarded to all persons concerned for information and necessary action.

Principal
SEC, Mayurbhanj, Jharpokharia
Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

Memo No. 1295 Dt. 27/09/2025

Copy forwarded to Member, Finance for information.

Principal
SEC, Mayurbhanj, Jharpokharia
Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

Campus : Mayurvihar, Jharpokharia, Mayurbhanj, Odisha, India-757086 | **City Office** : Baripada, Mayurbhanj
principal@seemantaengg.ac.in | 7381244960 , 9437035120 | www.seemantaengg.ac.in

SEEMANTA ENGG COLLEGE
MAYUR VIHAR, MAYURBHANJ
OFFICE ORDER

No: SEC/ 1089/25 Dated: 12/08/2025

In accordance with the verdict of the apex court, the Anti-Ragging Committee of Seemanta Engg. College for the session 2025-26 has been constituted. The members are as follows:

ANTI-RAGGING COMMITTEE

	CHAIRMAN	**CONTACT NO**
Prof.(Dr.)P. Nayak	Principal	7849068554
	CONVENER	
Dr. B.N. Kar	Asst.Prof., EE	7978802788
	CO-ORDINATOR	
Prof.(Dr.) A K Sahu	Dean, Academic	9437612637
	MEMBERS	
Prof.(Dr.) M K Dash	HOD, CHEM	9438400980
Er.K.B. Katiar	HOD, ME	8249836851
Er. S.Behera	HOD, CSE	9437218195
Er. S K Dandpat	HOD, EEE	9861012958
Er. P K Senapati	HOD, EE	9437161933
Prof.(Dr.) B K Prusty	Head, Exam	9556180150
Dr. B. Rana	HOD, MCA	9583167302
Er. S. K Ghosh	HOD, ETC	7008541396
Mr. C.S. Giri	Supdt. Boy's Hostel	7008389551
Er.B Nayak	Supdt. Girl's Hostel	9861313381

The members of the cell are to resume their duty with immediate effect and they are requested to be alert during the class time and also during welcome ceremony to prevent any form of ragging on the spot.

Cc: President, GB; All HODs; SIC; All freshers
& Persons Concerned for Information.

12/08/25
Principal
SEEMANTA ENGG. COLLEGE

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

edugrievance
Online Grievance Redressal System

Certificate of Renewal

This is to acknowledge and certify that ..Seemanta Engineering College, Kandalia, Odisha..... ..... has renewed the license of EduGrievance - The Online Grievance Redressal System and the same will remain valid till the date of expiry. EduGrievance is an Online Grievance Redressal Mechanism functioning as a platform where students and staff can post and the Grievance Cell Members can dispose of the grievances.

The URL and login details remain unchanged.

URL : ...Seemantaengg.edugrievance.com.....

Renewed on : .29../...11.../..2025....

Expiry Date : ..28../....11../....2026...

Authorized Signatory

Orell®

Orell Software Solutions Pvt Ltd.

Reg. office : 1st Floor, BCG Tower, Opp CSEZ, Seaport- Airport Road, Kakkanad, Cochin - 682037, Kerala , India

ANNEXURE - 4

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Letter No. SEC/1293/25 Date 27/09/2025

GRIEVANCE REDRESSAL CELL

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1. Prof. (Dr.) Prasanta Nayak, Principal, Chairperson
2. Prof. (Dr.) A. K. Sahu, Dean, Academic, Convenor
3. Dr. M. K. Dash, Professor, Dept. of Chemistry, Member
4. Mr. S. K. Dandapat, Associate Prof., Dept. of EEE, Member
5. Dr. Jyotiprava Mohanta, Associate Prof., Dept. of ETC, Member

Principal
SEC, Mayurbhanj, Jharpokharia
Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

Memo No. 1294(5) Dt. 27/09/2025

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Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

Memo No. 1295 Dt. 27/09/2025

Copy forwarded to Member, Finance for information.

Principal
SEC, Mayurbhanj, Jharpokharia
Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

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Letter No. SEC/1296/25 Date 27/09/2025

INTERNAL COMPLAINTS COMMITTEE (ICC)

The Internal Complaints Committee (ICC) is constituted with the following members with reference to the guidelines of AICTE, New Delhi, vide Prevention, Prohibition and Redressal Act, 2013 (POSH Act) dtd. 09.12.2013.

Name of the Committee Member	Designation	Profession	E-mail Address & Mobile Number
Mrs. Sarojini Sethi	Associate Professor	Presiding Officer	sarojinisethi@seemantaengg.ac.in 09439663733
Prof. (Dr.) M. K. Dash	Professor	Member	manojdash@seemantaengg.ac.in 09438400980
Dr. Suchismita Behera	Assistant Professor	Member	suchismitabehera@seemantaengg.ac.in 09437218195
Dr. Jyotiprava Mohanta	Associate Professor	Member	jyotipravamohanta@seemantaengg.ac.in 09937772122
Miss Sanjukta Basa	Social Activist	Member	sanjuktabasa@gmail.com 09437145692
Mrs. Gitanjali Dandapat	Non-Teaching	Member	gitanjalidandapat@seemantaengg.ac.in 09438020188
Mr. B. K. Katiar	Non-Teaching	Member	binaykatiar@seemantaengg.ac.in 07735338989
Mr. Ashis Kumar Panda	Non-Teaching	Member	akpanda@seemantaengg.ac.in 09861457977
Miss. Adyasha S Bera	Student	Member	adyashabera@seemantaengg.ac.in 09337904877
Mr. Rakshit Ranjan Dhal	Student	Member	rakshitranjandhal@seemantaengg.ac.in 09325084412
Mr. Ghana Shyam Panda	Student	Member	ghanashyampanda@seemantaengg.ac.in 08093858689

27/09/25
Principal
SEC, Mayurbhanj, Jharpokharia
Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

Memo No. 1297(11) Dt. 27/09/2025

Copy forwarded to all persons concerned for information and necessary action.

27/09/25
Principal
SEC, Mayurbhanj, Jharpokharia
Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

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principal@seemantaengg.ac.in | 7381244960 , 9437035120 | www.seemantaengg.ac.in

Letter No. SEC/1704/25 Date 09/12/2025

Internal Complaints Committee (ICC)

Annual Report 2025-26

The Internal Complaints Committee is vigilant about women related cases at Seemanta Engineering College. There were no cases of women related issues like harassment in the academic session 2025-26 due proactive precautionary measures to safeguard the issues related to women.

09/12/25

Principal

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

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Letter No. SEC/1280/25 Date 23/09/2025

COMMITTEE FOR SC & ST GRIEVANCE

For the disposal of complaints of SC & ST students, a committee is constituted with the following members:

1. Prof. (Dr.) Prasanta Nayak, Principal, Chairperson
2. Mr. P. K. Senapati, Associate Prof., Dept. of EE, Convenor
3. Mr. S. K. Dandapat, Associate Prof., Dept. of EEE, Member
4. Mrs. Sarojini Sethi, Associate Prof., Dept. of ETC, Member
5. Dr. Jyotiprava Mohanta, Associate Prof., Dept. of ETC, Member
6. Mr. Bhagan Hansdah, Asst. Prof., Dept. of CIVIL, Member

The members of the Committee are to resume their duty with immediate effect.

Prasanta Nayak 23/09/25
Principal
SEC, Mayurbhanj, Jharpokharia
Principal
Seemanta Engg. College
Jharpokharia, Mbj.

Memo No. 1281(6) Dt. 23/09/2025

Copy forwarded to all persons concerned for information and necessary action.

Prasanta Nayak 23/09/25
Principal
SEC, Mayurbhanj, Jharpokharia
Principal
Seemanta Engg. College
Jharpokharia, Mbj.

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Letter No. SEC/1292/25 Date 27.09.2025

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Members of IQAC

Chairperson	Prof. (Dr.) Prasanta Nayak, Principal		
Coordinator of the IQAC	Dr Satya Ranjan Sahu, Professor, Dept of ETC		
Teacher's Representatives	**Name of Teacher**	**Designation**	**Department**
	Mr Amit Kumar Mishra	Assistant Professor	CSE
	Mr Kunja Bihari Katiar	Assistant Professor	ME
	Mr Ritesh Kumar Panda	Assistant Professor	ETC
	Mr. Biswajit Parija	Assistant Professor	EE
	Mr Bijay Prasad Saha	Assistant Professor	CSE
	Mr Hemanta Kumar Jena	Assistant Professor	ETC
	Dr. Sanat Kumar Barik	Assistant Professor	EE
	Dr. Saroj Kumar Mohapatra	Associate Professor	EEE
	Mr Bikash Kumar Mohanta	Assistant Professor	CE
	Mr Rajan Subhankar Mohapatra	Assistant Professor	ME
	Dr. Biswamitra Rana	Assistant Professor	MCA
Member(s) of Management	Sri Ardhendu Praharaj, Member Finance, Governing Body		
Senior Administrative Officer	Dr Binod Kumar Prusty, Professor, Head. Examination Section		
Nominee from Society	Dr. Saroj Kumar Nayak (OES – 1)		
Nominee from the Student	Mr Jipun Kumar Giri, Pre-Final Year, Dept. of CSE, B. Tech		
Nominee from Alumni	Mr Rajiv Kumar Mohanty, THEJO Engg. Limited, Business Development Lead Manager		
Nominee from the Industrialist	Mr Arijit Ghosh, Glory Engineering Concern, Kolkata		
Student Representative	**Girls**	Ms Monalisa Mahala, Pre-Final Year, Dept. CSE, B. Tech	
	Boys	Mr Biswajit Panda, Pre-Final Year, Dept. ME, B. Tech	

27/09/25

Signature
Principal, Seemanta Engineering College

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

COPY TO: Finance member(s), Dean (Academic), HOD(s), Establishment section, Administration Section, SIC, forwarded to all persons concerned for information and necessary action

Campus : Mayurvihar, Jharpokharia, Mayurbhanj, Odisha, India-757086 | **City Office** : Baripada, Mayurbhanj

principal@seemantaengg.ac.in | 7381244960 , 9437035120 | www.seemantaengg.ac.in

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Estd. 1997
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Letter No..... *Date .....*

Equal Opportunity Cell (EOC) Members:

Name	Designation	Contact Number	E-Mail
Prof (Dr) Prasanta Nayak	Chairperson	7849068554	principal@seemantaengg.ac.in
Dr. Asit Kumar Patra	Coordinator	9178443643	asitpatra@seemantaengg.ac.in
Mrs. Sarojini Sethi	Member	9439663733	sarojinisethi@seemantaengg.ac.in
Mrs. Puspamitra Rout	Member	9777193353	puspamitrarout@seemantaengg.ac.in
Mr. Girija Prasad Das	Member	9861346982	girijadas@seemantaengg.ac.in
Miss. Sushmita Naik	Member	9337989919	sushmitanaik@seemantaengg.ac.in

4.3.25
Coordinator, EOC

04/03/25
Chairperson, EOC
Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

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principal@seemantaengg.ac.in | 7381244960 , 9437035120 | www.seemantaengg.ac.in

List of Faculty Members:

Name of faculty	Designation	Date of Joining
Dr. Ajit Kumar Sahu	Prof.	01-01-1997
Dr. Manoj Kumar Dash	Prof.	01-12-1997
Swarup Kumar Dandapat	Asso. Prof	19-08-1998
Bhabatosh Behera	Asso. Prof.	19-08-1998
Mahendra Nath Mohanta	Asso. Prof.	09-01-1999
Dr. Sasadhar Kalia	Prof.	22-11-1999
Dr. Prasanta Nayak	Prof.	09-02-2000
Saroj Kumar Panigrahi	Asst.Prof	31-01-2003
Ananda Sankar Mohapatra	Asso. Prof.	01-09-2003
Dr. Satya Ranjan Sahu	Prof.	16-08-2004
Dr. Binod Kumar Prusty	Prof.	06-10-2004
Debasish Basa	Asst. Prof.	10-02-2005
Sarojini Sethi	Asso. Prof	20-06-2005
Dr. Suchismita Behera	Asst. Prof.	20-06-2005
Bandana Nayak	Asst. Prof.	14-08-2005
Girija Prasad Das	Asst. Prof.	14-08-2005
Dr. Ramakanta Jena	Prof.	14-08-2005
Dr. Asit Kumar Patra	Asso. Prof.	14-08-2005
Pravas Kumar Senapati	Asso. Prof.	30-07-2006
Dr. Sanat Kumar Barik	Asst.Prof.	30-07-2006
Dr. Biranchi Narayan Kar	Asso.Prof.	08-08-2006
Dipanwita Sahu	Asst. Prof.	27-08-2006
Bijay Prasad Saha	Asst. Prof.	27-08-2006
Subhashree Das	Asst. Prof.	27-08-2006
Jayanta Kumar Dash	Asst. Prof.	08-12-2006
Dr. Manas Ranjan Pani	Prof.	08-06-2007
Dr. Jyoti Prava Mohanta	Asso. Prof.	06-08-2007
Sk. Mahashin Ali	Asst.Prof	06-08-2007
Dinesh Kumar Giri	Asst. Prof.	11-08-2007
Amit Kumar Mishra	Asst. Prof.	18-09-2007
Samir Kumar Behera	Asst. Prof.	19-09-2007
Dr. Goutam Das	Prof.	02-01-1962
Kunja Bihari Katihar	Asst. Prof.	01-11-2007
Kalpana Bhuiyan	Asst. Prof.	12-11-2007
Deepkia Jana	Asst. Prof.	12-11-2007
Manoj Kumar Nayak	Asst. Prof.	18-02-2008
Dr. Deepak Kumar Moharana	Asst. Prof.	14-08-2008
Rajib Kumar Sahu	Asst. Prof.	14-08-2008
Syhama Kinkar Ghosh	Asst.Prof.	19-08-2008
Dhiren Kumar Pradhan	Asst. Prof.	19-08-2008
Sujit Kumar Mohanta	Asst. Prof.	21-08-2008
Hemanta Kumar Jena	Asst. Prof.	21-08-2008
Chandra Sekhar Giri	Asst. Prof	06-09-2008
Dr. Saroj Kumar Mohapatra	Prof.	09-11-2008
Rajeeb Kar	Asst. Prof	06-08-2009

Ritesh Kumar Panda	Asst. Prof.	18-11-2010
Bikash Ranjan Ghosh	Asst. Prof.	08-12-2010
Biswajit Barik	Lecturer	04-07-2016
Bikash Kumar Mohanta	Asst. Prof.	01-08-2017
Satyajit Naik	Asst. Prof	01-08-2017
Rajan Subhankar Mohapatra	Asst. Prof.	01-09-2018
Ankit Mohanta	Asst. Prof.	04-02-2019
Saumya Ranjan Das	Asst. Prof	03-01-2020
Dr. Bishwamitra Rana	Asst. Prof	24-11-2020
Rajesh Kumar Ray	Lecturer	14-08-2005
Deepak Kumar Rath	Asst. Prof	25-11-2020
Sourav Kumar Panda	Asst.Prof	17-02-2021
Rashmi Behera	Asst. Prof	24-11-2022
Parth Paul	Lecturer	16-10-2000
Sasmita Pattanaik	Asst.Prof	25-11-2022
Biswajit Parija	Asst.Prof	29-11-2022
Puspamitra Rout	Asst. Prof.	01-12-2022
Chandan Kumar Giri	Asst. Prof.	01-12-2023
Subhasmita Pani	Asst. Prof.	01-12-2023
Ananya Smruti Snigdha Ojha	Asst. Prof.	01-12-2023
Dayarda Ranjan Giri	Asst. Prof.	01-12-2023
Sukumar Dandapat	Asst.Prof.	01-12-2023
Nihar Ranjan Mohanta	Asst. Prof.	01-12-2023
Shibadatta Mohanty	Asst. Prof.	01-12-2023
Bibhuti Bhusan Giri	Asst.Prof.	01-12-2023
Dayananda Sahu	Lecturer	01-12-2023
Sulagna Das	Asst. Prof	11-12-2023
Dr.Kanka Goswami	Prof.	02-05-2024
Dr. Goutam Bairagi	Prof.	02-05-2024
Pujasmita Sahu	Asst. Prof.	10-09-2024
Bhagan Hansdah	Asst. Prof	02-12-2024
Abhilash Mohapatra	Asst. Prof	02-12-2024
Satyakiran Mohanta	Lecturer	01-12-2023
Nihar Ranjan Mohanta	Asst. Prof	19-02-2025
Dr. Prasanta Bardhan	PoP	02-06-2025
Dr. Suprakash Patra	PoP	02-06-2025
Suman Jena	Asst.Prof	19-08-2025
Amrita Mohapatra	Asst. Prof	01-09-2025
Ajay Behera	Asst. Prof	01-09-2025

GOVERNMENT OF ODISHA
SKILL DEVELOPMENT AND TECHNICAL EDUCATION DEPARTMENT
*****

NOTIFICATION

Bhubaneswar, dated the 27th July, 2018

Subject: Revision of Fee Structure of Technical Professional Colleges / Institutions.

No. ETET- TT-I-ITTI-0023-2014 3512 /SDTE, In exercise of power conferred on Government under sub-section - 7 of Section - 6 and other provisions of the Odisha Professional Educational Institutions (Regulation of Admission & Fixation of Fee) Act, 2007 and basing on the recommendation of the Fee Structure Committee constituted in terms of interim order of Hon'ble Supreme Court dated 1st June, 2007 in Special Leave Petition (Civil) No.(s) 10318, 10319, 10329 and 10330 of 2007, Government have been pleased to revise the fee structure of the following Professional / Technical Colleges as detailed below to be implemented w.e.f. academic session 2018-19.

(A) Fees Structure for Engineering Colleges:

1. Whose fees were last revised in the Academic Year 2012-13.

Sl. No.	Name of Private Engineering Colleges	Name of the course	Previous fee structure fixed during academic session 2012-13	Fee Structure prescribed by the Government w.e.f. academic session 2018-19
1	Adarsa Engineering College, Angul.	B.Tech	45,000/-	48,000/-
2	Aryan Institute of Engineering & Technology, At-Barakuda, Po-Panchagan, Bhubaneswar, Khurda-752052.	B.Tech	63,000/-	63,000/-
3	Bhubaneswar Institute of Technology Info Valley, Bhubaneswar.	B.Tech	54,000/-	54,000/-

33	Synergy Institute of Engineering and Technology,Banamali Prasad, N.H-55 By -pass , Dhenkanal-759001.	B.Tech. M. Tech	Rs.70,000/- Rs.77,000/-	Rs.70,000/- + Rs.4,000/- (NAAC-'B') Rs.74,000/- Rs.81,000/-
34	Trident Academy of Technology, Plot No.F-2A, In front of Infocity, Chandaka Industrial Estate, Chandrasekharpur, Bhubaneswar-751024.	B.Tech.	Rs.75,000/-	Rs.82,000/- +Rs.5,000/- Rs.87,000/- ETC & CSE for NBA & Rs.86,000/- for other branches
35	TempleCity Institute of Technology and Engineering, Plot No.F/12, IIT Centre, Knowledge Campus, Barunei, Khurda-752057	B.Tech. M. Tech	Rs.69,000/- Rs.76,000/-	Rs.69,000/- Rs.76,000/-
36	Capital Engg. College, Khurda	B.Tech.	Rs.59,000/-	Rs.59,000/-
37	Sundargarh Engineering College, ,Sundargarh - 77073	B.Tech.	Rs.45,000/-	Rs.45,000/-
38	Bhadrak Institute of Engineering & Technology, AT/PO- Barapada, Bhadrak.	B.Tech.	Rs.55,000/-	Rs.55,000/-
39	G.K. College of Engineering & Technology, Koraput.	B.Tech.	Rs.45,000/-	Rs.45,000/- +Rs.3,000/- Rs.48,000/-
40	Gandhi Institute of Advanced Computer & Research, Rayagada. (Formerly IACR)	B.Tech.	Rs.52,000/-	Rs.52,000/-
41	Jagannath Institute of Engineering and Technology, Jagatpur, Cuttack.	B.Tech.	Rs.46,000/-	Rs.46,000/-
42	Satyasai Engineering College, Balasore.	B.Tech.	Rs.52,000/-	Rs.52,000/-
43	Seemanta Engg. College, Jharpokhiria, Mayurbhanj	B.Tech.	Rs.55,000/-	Rs.55,000/-

26	Gayatri Institute of Computer and Management Studies (GICMS), GYAN VIHAR AT : REGEDA PO: GUNUPUR DIST: RAYAGADA (ODISHA) PIN - 765022	MCA	Rs.40,000/-	Rs.40,000/-
27	Indian Institute of Science & IT, Bhubaneswar	MCA	Rs.55,000/-	Rs.55,000/-
28	Gandhi Institute of advanced Computer and Research, Rayagada.	MCA	Rs.55,000/-	Rs.55,000/-
29	Regional College of Management, Bhubaneswar.	MCA	Rs.55,000/-	Rs.55,000/-
30	Rourkela Institute of Management Studies, Rourkela.	MCA	Rs.55,000/- Rs.5,000/- (NAAC-'A') Rs.60,000/-	Rs.55,000/-
31	Seemanta Engineering College, MAYURBHANJ AT- MAYURVIHAR, VILLAGEJAUNTI, PO.- JHARPOKHARIA, MAYURBHANJ, PIN-757086	MCA	Rs.55,000/-	Rs.55,000/-
32	Tapaswini Institute of I.T. Rourkela.	MCA	Rs.43,000/-	Rs.43,000/-
33	Bhubaneswar Engineering College, Bhubaneswar.	MCA	Rs.30,000/-	Rs.30,000/-
34	Indus College of Engineering, BARAKUDA HEIGHT BHUBANESWAR PIN-752050	MCA	Rs.30,000/-	Rs.30,000/-
35	Koustuv Institute of Self-Domain,	MCA	Rs.67,000/-	Rs.67,000/-

All India Council for Technical Education

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

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

APPROVAL PROCESS 2026-27

Extension of Approval (EoA)

F.No. Eastern/1-46219694723/2026/EOA

Date of Approval: 16-Mar-2026

To,

The Commissioner cum Secretary,
Deptt. Of Higher & Technical Education,
Govt. of Orissa, Orisas Sectt.
Bhubaneshwar-751001

Sub: Extension of Approval for the Academic Year 2026-27

Ref: Online application of the Institution submitted for Extension of Approval for the Academic Year 2026-27

Sir/Madam,

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

Permanent Id	1-10787922	**Application Id**	1-46219694723
Name of the Institution	SEEMANTA ENGINEERING COLLEGE, MAYURBHANJ	**Name of the Society/Trust**	SEEMANTA MAHAVIDYALAYA SAMITI
Institution Address	AT- MAYURVIHAR, VILLAGE-JAUNTI, PO.-JHARPOKHARIA, MAYURBHANJ, PIN-757086., BARIPADA, MAYURBHANJ, Odisha, 757086	**Society/Trust Address**	AT-JHARPOKHARIA PO-JHARPOKHARIA DIST- MAYURBHANJ AT-JHARPOKHARIA,BARIPADA, MAYURBHANJ,Orissa,757086
Institution Type	Private-Self Financing	**Region**	Eastern
Year of Establishment	1997		

To conduct following Programs/Courses with the Intake indicated below for the Academic Year 2026-27

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2025-26	Intake Approved for 2026-27	NRI Approval Status	International Students Approval Status
DIPLOMA	ENGINEERING AND TECHNOLOGY	CIVIL ENGINEERING	Directorate of Technical Education & Training, Odisha	60	60	No	No
DIPLOMA	ENGINEERING AND TECHNOLOGY	ELECTRICAL ENGINEERING	Directorate of Technical Education , Odisha	60	60	No	No
DIPLOMA	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	Directorate of Technical Education & Training, Odisha	60	60	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	CIVIL ENGINEERING	Biju Patnaik University of Technology, Bhubaneswar	60	60	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	Biju Patnaik University of Technology, Bhubaneswar	60	60	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	Biju Patnaik University of Technology, Bhubaneswar	30	30	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRICAL ENGINEERING	Biju Patnaik University of Technology, Bhubaneswar	60	60	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND TELECOMMUNICATION ENGINEERING	Biju Patnaik University of Technology, Bhubaneswar	60	60	No	No
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	Biju Patnaik University of Technology, Bhubaneswar	120	120	No	No
POST GRADUATE	COMPUTER APPLICATIONS	MASTERS IN COMPUTER APPLICATIONS	Biju Patnaik University of Technology, Bhubaneswar	30	30	No	No

To conduct following Programs/Courses with the Intake indicated below for the Academic Year 2026-27

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2025-26	Intake Approved for 2026-27	NRI Approval Status	International Students Approval Status
POST GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRICAL ENGINEERING	Biju Patnaik University of Technology, Bhubaneswar	18	18	No	No
POST GRADUATE	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	Biju Patnaik University of Technology, Bhubaneswar	18	18	No	No

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

It is mandatory to comply with all the essential requirements as given in APH 2024-27 (Chapter-VI)

Important Instructions

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

Prof. Shyama Rath
Member Secretary

Copy to:

1. **The Director Of Technical Education**, Odisha**
2. **The Registrar**,**
   Biju Patnaik University Of Technology, Bhubaneswar

3. **The Principal / Director,**
SEEMANTA ENGINEERING COLLEGE, MAYURBHANJ
At- Mayurvihar, Village- Jaunti, Po.-Jharpokharia, Mayurbhanj, Pin-757086.,
Baripada,Mayurbhanj,
Odisha,757086

4. **The Secretary / Chairman,**
AT-JHARPOKHARIA
PO-JHARPOKHARIA
DIST- MAYURBHANJ

AT-JHARPOKHARIA
BARIPADA,MAYURBHANJ
Orissa,757086

5. **Guard File(AICTE)**

Note: Validity of the Course details may be verified at http://www.aicte-india.org/

** Individual Approval letter copy will not be communicated through Post/Email. However, a consolidated list of Approved Institutions(bulk) may be downloaded from the respective login id's.

This is a computer generated Statement. No signature Required

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA, ROURKELA

(An Affiliating State University of Govt. of Odisha)

No. BPUT/ Affl./201/....4514.....
Date : 07-07-2025

To

The Principal / Director,
Seemanta Engineering College,
Mayurbhanj,
At:Mayurvihar, Village:Jaunti,
Po:jharpokharia, Mayurbhanj, Pin-757086

Sub : Grant of Provisional Affiliation for the Academic Year 2025-26.

Sir,

I am to inform you that on the basis of your application for continuation of affiliation for the Year 2025-26 and as per recommendation of the Affiliation Committee of the University, **Provisional Affiliation** is hereby granted to your college for the **UG/PG programme** with the following disciplines and intake capacity as mentioned against each discipline for the academic session **2025-26**.

Sl. No.	Courses	Approved Intake For 2025-26	Level
1.	Electronics and Telecommunication Engineering	60	UG
2.	Computer Science and Engineering	60	UG
3.	Electrical Engineering	60	UG
4.	Mechanical Engineering	120	UG
5.	Civil Engineering	60	UG
6.	Electrical and Electronics Engineering	30	UG
7.	Master in Computer Applications	30	PG
8.	Electrical Engineering	18	PG
9.	Mechanical Engineering	18	PG

The above affiliation is provisional and it is subject to review and fulfilment of conditions laid down by the University. Deviation from the declaration given along with your affiliation form may lead to withdrawal of affiliation.

Yours faithfully,

Registrar

Memo No. ...4515.... Date : 07-07-2025

Copy to

1. The Additional Secretary to Government, SDTE Department, Government of Odisha for kind information.
2. The Chairman, JEE, Odisha for information and necessary action.

Registrar

10. (b) Number of Students admitted under various categories each year in the last three years :

Sl. No.	Discipline	2025-29	2024-28	2023-27	2022-26	Total
1	Civil Engineering	33	66	64	66	229
2	Computer Science & Engineering	58	70	70	66	264
3	Mechanical Engineering	47	130	129	115	421
4	Electrical Engineering	28	70	68	62	228
5	Electronics & Telecommunication Engineering	26	33	28	15	102
6	Electrical & Electronics Engineering	05	34	28	27	94
7	MCA	36	34			70
8	Electrical Engineering (M.Tech)	2	6			8
9	Mechanical Engineering (M.Tech)	3	2			5
10	Electrical Engineering (Diploma)	63	70	67		200
11	Mechanical Engineering (Diploma)	63	68	66		197
12	Civil Engineering (Diploma)	63	63	52		178
					Grand Total	1996

ANNEXURE - 14

Information of Infrastructure and Other Resources Available:

B.Tech	**Available Rooms**	**Available Area**
Class Rooms	31	2400.00 sq.mt.
Tutorial Rooms	7	500.00 sq.mt.
Laboratory	52	5642.43 sq.mt.
Workshop (all courses)	1	202 sq.mt
Additional Workshop for *Category 'X' courses*	1	902 sq.mt
Computer Center	2	228.9 sq.mt.
Drawing Hall	2	251.48 sq.mt.
Library & Reading Room	2	893.71 Sq.mt.
Seminar Halls	2	229.14 sq.mt.
M.Tech		
Class Rooms	6	451.02 sq.mt.
Laboratory	4	202 sq.mt
Research Laboratory	2	101 sq.mt.
Computer Center	1	101 sq.mt.
Library & Reading Room	1	101.05 sq.mt.
Seminar Halls	2	101 sq.mt.
MCA		
Class Rooms	3	225.06 sq.mt.
Tutorial Rooms	1	79 sq.mt.
Computer Center	1	95.25 sq.mt.
Library & Reading Room	1	101.05 sq.mt.
Seminar Halls	1	101.05sq.mt.
Diploma		
Class Rooms	8	564.1073sq.mt.
Tutorial Rooms	2	141.0268sq.mt.
Laboratory	10	942.96586sq.mt.
Workshop (all courses)	1	202 sq.mt
Additional Workshop for *Category 'X' courses*	1	902 sq.mt
Computer Center	1	67.308252sq.mt.
Drawing Hall	2	151.7107sq.mt.
Library & Reading Room	1	123.9327Sq.mt.
Seminar Halls	1	145.4862sq.mt.

BARRIER FREE ENVIRONMENT






Principal
Seemanta Engineering College,
Mayurbhanj

Seemanta Engineering College

Estd. 1997

An ISO Certified Institution, Approved by AICTE, DTET & Affiliated to BPUT and SCTE & VT, Odisha

Letter No. SEC/1044/26 *Date* 24.4.2026

UNDERTAKING

This is to certify that Seemanta Engineering College, Mayurvihar,Jharpokharia, Mayurbhanj,Odisha - 757086 has not subscribed to any International Journals in the last academic session.

24/4/26

Principal

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

Campus : Mayurvihar, Jharpokharia, Mayurbhanj, Odisha, India-757086 | **City Office** : Baripada, Mayurbhanj

principal@seemantaengg.ac.in | 7381244960 , 9437035120 | www.seemantaengg.ac.in

Letter No. SEC/1043/26 Date 24.4.2026

UNDERTAKING

This is to certify that Seemanta Engineering College, Mayurvihar, Jharpokharia, Mayurbhanj, Odisha - 757086 has not subscribed to any National Journals in the last academic session.

24/4/26
Principal
Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

Department Data for List of Major Equipment Available / Facilities in each Laboratory / Workshop

COMPUTER SCIENCE & ENGINEERING

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/Workshop	No. of Equipment(s)
LAB - 01	PC [HDD 360 Gb/500 GB, RAM 2 Gb, Monitor 19", Keyboard, Mouse, DUAL CORE Processor, USB 2	Software: Operating System – [Linux] C Compilers & IDEs: GCC (GNU Compiler Collection) Turbo C++ (for legacy support) Code: Blocks Dev-C++ Microsoft Visual Studio Code Debugging Tools – GDB (GNU Debugger) Version Control – Git, GitHub (for project collaboration) Other Utilities – Notepad++, Sublime Text, Terminal/Command Prompt	24 no.
		AC (1 TONN)– 3 no. FAN -- 07 Internet- 100 mbps	3 no. 7 no.
		UPS -7.5 KVs – 1 no 7.0 KVs—1 no	2no.
		Projector	1 no.
LAB - 02	PC [HDD 360 Gb/500 GB, RAM 2 Gb, Monitor 19", Keyboard, Mouse, DUAL CORE Processor, USB 2	Software: Operating System – [Linux] C Compilers & IDEs: GCC (GNU Compiler Collection) Turbo C++ (for legacy support) Code: Blocks Dev-C++ Microsoft Visual Studio Code Debugging Tools – GDB (GNU Debugger) Version Control – Git, GitHub (for project collaboration) Other Utilities – Notepad++, Sublime Text, Terminal/Command Prompt	39 nos
		AC (1 TONN)– 3 no. FAN -- 05 Internet- 100 mbps UPS -6.5 KVs – 1 no	03 05 01
LAB - 04	PC [HDD 360 Gb/500 GB, RAM 2 Gb, Monitor 19", Keyboard, Mouse, DUAL CORE Processor, USB 2	Software: Operating System – [Linux] C Compilers & IDEs: GCC (GNU Compiler Collection) Turbo C++ (for legacy support) Code: Blocks Dev-C++ Microsoft Visual Studio Code Debugging Tools – GDB (GNU Debugger) Version Control – Git, GitHub (for project collaboration) Other Utilities – Notepad++, Sublime Text, Terminal/Command Prompt	26 nos
		AC (1 TONN) FAN Internet- 100 mbps UPS -15 KVs	3 nos 2 nos 01 nos
LAB - 05	PC [HDD 360 Gb/500 GB, RAM 2 Gb, Monitor 19", Keyboard, Mouse, DUAL CORE Processor, USB 2	Software: Operating System – [Linux] C Compilers & IDEs: GCC (GNU Compiler Collection) Turbo C++ (for legacy support) Code: Blocks Dev-C++ Microsoft Visual Studio Code Debugging Tools – GDB (GNU Debugger) Version Control – Git, GitHub (for project collaboration) Other Utilities – Notepad++, Sublime Text, Terminal/Command Prompt	30 nos
		AC (1 TONN), FAN Internet- 100 mbps UPS -15 KVs	3 nos 4 nos 1 no

ELECTRICAL ENGINEERING

Name of the Laboratory	List of Major Equipment and Facilities in each Laboratory/Workshop	No. of Equipment(s)
BASIC ELECTRICAL ENGINEERING LABORATORY	DC series motor (3HP) with control panel.	01
	DC Shunt Motor (3HP) with control Panel.	01
	DC M/G set (Motor- 3HP) (Gen – 2kw) with control Panel.	01
	Single Phase, 1HP Induction Motor (CSCR).	01
	AC universal Motor (0.25KW	01
	3 point starter (DC)	02
	Filed Regulator	02
	Single Phase 2KVA Transformer	01
	1Θ Variac (Autotransformer)	03
	Inductive Load (1Θ)	01
	Capacitive Load (V)	01
	Resistive Load (1Θ)	02
	Single Phase Energy Meter	01
	D.O.L starter.	01
	Double Tube Rheostat (750Ω, 2A)	01
	Double Tube Rheostat (50Ω, 10A)	01
	Single Tube Rheostat (200Ω, 2A)	01
	1Θ House Wiring Demo Board.	01
	Double Tube Rheostat (100Ω, 5A)	01
	1Θ AC voltmeter (0-600V)	01
	1Θ AC voltmeter (0-300V)	01
	1Θ AC ammeter (0-30A)	01
	1Θ AC ammeter (0-02A)	01
	1Θ watt meter (0-3000w)	02
	Sq. Cage induction motor 3Θ, 1HP.	01
	Electric Heter 1500 watt	01
	PVC Chair	13
	'S' Chair	05
	Sitting Desk	03
	Ply Table	01

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/Workshop	No. of Equipment(s)
Power System Lab.	IDMT over-current relay		1
	IDMT over-voltage relay		1
	IDMT under-voltage relay		1
	Negative sequence relay		1
	%Biased different relay		1
Control System	CRO-2 MULTIMETER-2 VOLTMETER-1 AMMETER-1 ENERGY METER-1 PATCH CHORD-50 POWER CHORD- 10	AC (1.5 Ton)-2 No	67

List of Experimental Setup in each Laboratory

Name of The Laboratory : ELECTRICAL MACHINE -2

AIM -1 Determination of the voltage regulation of an alternator by synchronous impedance method and zero power factor (zpf) method

NAME OF MACHINE AND AND SPECIFICATON
THREE PHASE SYNCHRONOUS GENERATOR - 3KVA, 415V, 4 amp.50 .Hz SPEED1500rpm
D.C SHUNT MOTOR - 5 HP , 220V , 1800 A, 1500 rpm

APPARATUS REQUIRED

NAME OF APPARATUS	TYPE	RANGE	QUANTITY
Ammeter	A.C/MI	(0-10A)	1
Ammeter	D.C	(0-2A)	1
Voltmeter	A.C	(0-300)V	1
Tachometer	digital	1	
Three phase variac(inductive load)	A.C	(0-415V/470),28A 1KVA	1
Three point starter	….	------	1
Rheostat		100ohm,5A	1
Field regulator		100 ohm,5A	1

AIM 2-Determination of the V and inverted V curves of a synchronous motor

NAME OF MACHINE AND SPECIFICATON
SYNCHRONOUS MOTOR 3phase Power 5 -H.P 415 V 6 A 50 .Hz SPEED-1500 RPM Delta connected Excitation voltage =110 V

NAME OF APPARATUS	TYPE	RANGE	QUANTITY
Ammeter	A.C/MI	(0-10A),)	1
Voltmeter	A.C/MI	(0-600)V,	1
Ammeter	D.C	(0-5A)	1
voltmeter	D.C	(0-300)V	1
Field regulator	----	100Ohm,5A	1
M.C.B		3Ø,440V,10A	1
Power factor meter	---	---------	1
D.O.L starter	--	--	1
Tachometer	Digital contact type		1

AIM-Speed control of a three-phase induction motor using variable frequency drives

NAME OF MACHINE AND SPECIFICATON
THREE PHASE SYNCHRONOUS GENERATOR 3KVA, 415V, 4 amp.50 .Hz SPEED1500rpm
D.C SHUNT MOTOR 5 HP , 220V , 1800 A, 1500 rpm
THREE PHASE INDUCTION MOTOR5HP.,415V,6A, 3-PHASE CRAM SON &SON

APPARATUS REQUIRED

NAME OF APPARATUS	TYPE	RANGE	QUANTITY
Ammeter	A.C/MI	(0-5A),(0-15A)	2
Voltmeter	A.C	(0-300)V,(0-50V)	1+1
Three phase variac	A.C	(0-415V/470),28A	1
Wattmeter	A.C	2.5A,10A,1500W	2
Tester,cutter,plier			1each
Connecting wires		3/22 S.W.G	
Frequency meter			

AIM-Determination of parameters of synchronous machine (a) Positive sequence reactance (b) Negative sequence reactance (c) Zero sequence reactanc

THREE PHASE ALTERNATOR 3KVA, 415V, 4 amp. 50 .Hz SPEED1500rpm
D.C DHUNT MOTOR (USED AS PRIEMOVER 5 HP , 220V , 1800 A, 1500 rpm

APPARATUS REQUIRED

NAME OF APPARATUS	TYPE	RANGE	QUANTITY
Ammeter	A.C/MI	(0-10A),	1
Voltmeter	A.C/MI	(0-600)V,	1
Ammeter	D.C	(0-2A)	1
Three point starter	---	-----	1
Field regulator	----	100Ohm,5A	1
Rheostat		100Ohm,5A	1
Tachometer	Digital contact type		
Connecting wires		3/22 S.W.G,Cu	
Tester,cutter,plier			1 each

AIM-Determination of parameter of a Capacitor start single phase induction motor

NAME OF MACHINE WITH SPECIFICATON

single phase induction motori)capacitor start motor ii) capacitor start capacitor run motor : 1 H.P,220V ,6A ,1440RPM

APPARATUS REQUIRED

s.l n.o	NAME OF APPARATUS	TYPE	RANGE	QUANTITY
1	Ammeter	A.C	(0-5)A,(0-10A)	1
2	Voltmeter	A.C	(0-300)V	1
3	wattmeter	A.C	(0-300W)	1
3	Millimeter	A.C		1
4	Digital tachometer	--	--	1
5	Single phase variac	A.C	260V,20A	1
6	Cutter , plier			1 each
7	Connecting wires			As per required

AIM-Study of parallel operation of two alternators

ALTERNATOR 3KVA, 415V, 4 amp.50 .Hz; SPEED1500rpm	D.C DHUNT MOTOR (USED AS PRIEMOVER 5 HP , 220V , 1800 A, 1500 rpm

APPARATUS REQUIRED

NAME OF APPARATUS	TYPE	RANGE	QUANTITY
Ammeter	A.C/MI	(0-10A),(0-5A),(0-5A)	1+1+1
Voltmeter	A.C/MI	(0-600)V,	1+1
Ammeter	D.C	(0-2A)	1+1
Three point starter	---	-----	1+1
Field regulator	----	100Ohm,5A	1+1
Rheostat		100Ohm,5A	1+1
Three phase load box	---	---------	1
Synchronizing penal board	HZ,PHA,SY -scope		1
T.P.S.T	--	--	1
Tachometer	Digital contact type		
Connecting wires		3/22 S.W.G,Cu	
Tester,cutter,plier			1 each

AIM -Measurement of direct and quadrature axis reactance of a salient pole synchronous machine by Slip test

MACHINE SPECIFICATION

NAME OF MACHINE SPECIFICATON
THREE PHASE SYNCHRONOUS GENERATOR 3KVA, 415V, 4 amp.50 .Hz SPEED1500rpm
D.C DHUNT MOTOR 5 HP , 220V , 1800 A, 1500 rpm

APPARATUS REQUIRED

NAME OF APPARATUS	TYPE	RANGE	QUANTITY
Ammeter	A.C/MI	(0-10A)	1
Voltmeter	A.C/MI	(0-600)V,(0-150V)	1+1
Three phase variac	A.C	(0-415V/470),28A,1KVA	1
Three point starter	---	-----	1
Field regulator	----	100Ohm,5A	1
Tachometer	Digital contact type		
Connecting wires		3/22 S.W.G,Cu	
Tester,cutter,plier			1 each

AIM-Measurement of transient and sub transient reactance of a salient pole alternator

NAME OF MACHINE	SPECIFICATON
Three phase synchronous generator	3KVA, 415V, 4 amp. 50 .Hz SPEED1500rpm
D.C DHUNT MOTOR	5 HP , 220V , 1800 A, 1500 rpm

APPARATUS REQUIRED

NAME OF APPARATUS	TYPE	RANGE	QUANTITY
Ammeter	A.C/MI	(0-10A)	1
Voltmeter	A.C/MI	(0-600)V,(0-150V)	1
Three Phase Variac	A.C	(0-415V/470),28A,1KVA	1
Three Point Starter	---	-----	1
Field Regulator	----	100Ohm,5A	1
Tachometer	Digital contact type		
Connecting Wires		3/22 S.W.G,Cu	
Tester,Cutter, Plier			1 each

Determination of parameters of three phase induction motor from No Load Test and Blocked Rotor Test

NAME OF MACHINE	SPECIFICATON
Three phase Induction motor	5HP.,415V,6A, 3-PHASE RAM SON &SON

APPARATUS REQUIRED

NAME OF APPARATUS	TYPE	RANGE	QUANTITY
Ammeter	A.C/MI	(0-5A),(0-15A)	2
Voltmeter	A.C	(0-300)V,(0-50V)	1+1
Three phase variac	A.C	(0-415V/470),28A	1
Wattmeter	A.C	2.5A,10A,1500W	2
Tester,cutter,plier			1each
Connecting wires		3/22 S.W.G	

Topic as per BPUT syllabus	List of Major Equipment	Facilities in Electrical Machine-1 Laboratory	No. of Equipment(s)
Determination Of Efficiency And Voltage Regulation By Open Circuit And Short Circuit Test On Single Phase Transformer.	SINGLEPHASE TRANSFORMER 1KVA 110/220V	Experimental Setup FOR THE EXPERIMENT WITH PANAL BOARD AND MEASURING INSTIMENYS	1
Parallel Operation Of Two Single Phase Transformers	SINGLE PHASE TRANSFORMER 1KVA, 10/220V	Experimental Setup FOR THE EXPERIMENT WITH PANAL BOARD AND MEASURING INSTIMENYS	2
Back-To Back Test On Two Single Phase Transformers	SINGLE PHASE TRANSFORMER 1KVA	Experimental Setup FOR THE EXPERIMENT WITH PANAL BOARD AND MEASURING INSTIMENYS	2
Study Of Open Delta And Scott Connection Of Two Single Phase Transformers	SINGLE PHASE TRANSFORMER 1KVA 110/220V	Experimental Setup FOR THE EXPERIMENT WITH PANAL BOARD AND MEASURING INSTIMENYS	2
No Load Test Of D.C Shunt Generator	DC SHUNT MOTOR COUPLED WITH SHUNT GENERATOR SET RAM SON &SON 3 HP DC MOTOR WITH 2KW DC GENERATOR-RECTIFIER UNIT IN PUT - 3 PHASE 415V OUT PUT 220 D.C100A	Experimental Setup FOR THE EXPERIMENT WITH PANAL BOARD AND MEASURING INSTIMENYS	1+1
Speed Control Of D.C Motor By Using Armature Control And Field Control Method	1-D.C SHUNT MOTOR 3HP,18A,220V.1500RPM RAM SON &SON 2-RECTIFIER UNIT IN PUT - 3 PHASE 415V OUT PUT 220 D.C100A	Experimental Setup FOR THE EXPERIMENT WITH PANAL BOARD AND MEASURING INSTIMENYS	1+1
Determination Of Parameters Of Three Phase Induction Motor From No Load Test And Blocked Rotor Test..	Of Three Phase Induction Moto 5HP.,415V,6A, 3-PHASE RAM SON &SON	Experimental Setup FOR THE EXPERIMENT WITH PANAL BOARD AND MEASURING INSTIMENYS	1

Load Test Of D.C Shunt Generator	DC SHUNT MOTOR COUPLED WITH SHUNT GENERATOR SET RAM SON &SON 3 HP DC MOTOR WITH 2KW DC GENERATOR-RECTIFIER UNIT IN PUT - 3 PHASE 415V OUT PUT 220 D.C100A	Experimental Setup FOR THE EXPERIMENT WITH PANAL BOARD AND MEASURING INSTIMENYS	1+1

Name of the Laboratory: EEPC2201 ELECTRICAL CIRCUIT ANALYSIS LAB		
List of Major Equipment	Facilities in each Laboratory/Workshop	No. of Equipment(s)
1.Thevenins Theorems study trainer	Power supply to each specified expt. Table	2
2 .Superposition Theorems study trainer		2
3.Norton Theorems study trainer		2
4 .Maximum power transfer Theorems study trainer		2
5 .two port network parameters study trainer		1
6 .low pass , high pass and band pass filters study trainer		1
7 .R-L-C series and parallel resonanc study trainer		1
8 . for R-L, R-C & R-L-C ckt. Transients response study trainer		1
9. Tuned coupled ckt. study trainer		1
10. Regulated dc power supply		2
11 . Digital multimeter		4
12. Function Generator		2

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/Workshop	No. of Equipment(s)
ELECTRIC POWER TRANSMISSIO N AND DISTRIBUTION LABORATORY COURSE CODE: REL5C201	1.AC DISTRIBUTION SIMULATOR MODULE 2.IMPROVEMENT OF POWER FACTOR USING SWITCHED CAPACITOR KIT 3. Determination of String efficiency MODULE 4.MEGGER KIT		1.AUTOTRANSFO RMER-01 2.MULTIMETER-03 3.PATCH CHORDS

Name of the Laboratory	List of Major Equipment and Facilities in each Laboratory/Workshop	No. of Equipment(s)
POWER ELECTRONICS LAB SUB CODE: REL4C203	1. VI characteristic of SCR & AC to DC.Converter module.-01 2.Buck Converter Module-01 Boost Converter Module-01 3.Phase Diode Bridge Module-01 4.VI characteristics of Traiac & AC voltage regulator.-01 5.Single Phase Inverter Module.-01 6.IGBT, Mosfet, SCR & Triac staticharacteristic Module-02 7.DC - DC Forword converter module Kit-01 8.DC-DC flyback converter module-01 9.R, R-C & UJT firing Module. Cosine controlled triggering ckt kit.-01 10.Series Inverter Kit.-01 11.Chopper/Inverter PWM Controller.module-01 12.Single Phase SCR Bridge converterkit-01 13.Single Phase SCR half-controlled Converter module-01 14.Uni Junction Transistor (UJT) trainer kit.-01 15.3 half & fully controlled converter, AC Regulator Module-01 16.3 SCR fully controlled converter kit.-01	01. Regulator DC power supply.02 02.Analog Oscilloscope-02 03.Capacitor Module.-01 05.Rheostat (50Ω, 4A)-03 06.Rheostat (100Ω, 5A)-01 07.Single Phase Transformer.-02 08.3Θ Transformer -01 09.150VA Isolation transformer.-02 10.Digital Multi Meter-06 11.Patch chord/ Power Chord 12.Single Phase Auto Transformer-01

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/Workshop	No. of Equipment(s)
BASIC ELECTRONICS LAB/ ANALOG ELECTRONIC CIRCUIT LABORATORY/ DIGITAL ELECTRONICS LABORATORY/ DIGITAL SYSTEM DESIGN LABORATORY	Digital Storage Oscilloscope (25MHz)		08
	Universal Electronics Trainer (Microlab-II)		23
	Function Generator(Scientific 3MHz,Scientech 2MHz, Falcon 2MHz		12
	Digital Multimeter		10
	Class A, B power amplifier Trainer Kit		01
	RC phase shift oscillator Trainer Kit		01
	IC(7408,7432,7404,7400,7402,7486)		50 EACH
	IC 7447		30
	LT542(Display Device)		30
	IC 74151		15
	IC 74153		15
	IC 7411		15
	IC 74138		20
	IC 7476		20
	IC 7474		20
	IC 7495		10
PRINCIPLES OF COMMUNICATION SYSTEMS LAB/ ANALOG AND DIGITAL COMMUNICATION LABORATORY/ COMMUNICATION ENGINEERING LAB	spectrum analyzer ST 2653, 8010TG		1 each
	Digital Storage Oscilloscope		03
	Function Generator		02
	FDM Kit ACL 06		02
	AM modulator and demodulator Kit (ACL 01 and ACL 02)		04 EACH
	FM modulation and Demodulation Kit (ACL 03 and ACL 04)		04 EACH
	PCM Kit (DCL 03 and DCL 04)		04 EACH
	DM Trainer Kit ST 2105		03
	Modulator and Demodulator Trainer Kit-ST2106, ST2107(ASK,FSK,PSK)		03 EACH
	Satellite Uplink transmitter, Satellite downlink receiver and satellite link emulator, RHCP &LHCP axial mode helix antennas, Antenna stands with connecting cables reflecting sheet		01 SET
MICROPROCESSORS AND MICROCONTROLLERS LABORATORY	8086 Trainer Kit		06
	DAC Kit		04
	ADC Kit		01
	8255 PPI		02
	8051 Microcontroller Kit		02
	8251 Kit		02
MICROWAVE ENGINEERING LAB	Microwave Test Bench		01
DIGITAL SIGNAL PROCESSING LABORATORY/ SIGNALS AND SYSTEMS LABORATORY	DSP kit TMS 320C5X		07
	MATLAB 7 PC(Dual Core,1GB RAM,320GB HDD)		07

ELECTRICAL AND ELECTRONICS ENGINEERING

Name of the Laboratory	List of major Equipment	Facilities in each laboratory	No. of Equipments
DIGITAL ELECTRONICS LAB.	CRO		18
	FUNCTION GENERATOR		10
	UNIVERSAL TRAINER KIT		24
	PROGRAMABLE DIGITAL MULTIMETER		1
	DIGITAL MULTIMETER		16
		AIR BLOWER	1
VLSI & SIMULATION LAB.	SERVER		1
	PC (CPU,MONITOR,KEY BOARD,MOUSE)		30
	PRINTER		1
	TRAINER KIT (CPLD)		4
	TRAINER KIT (UNIVERSAL)		2
	CRO		1
	UNIVERSAL TRAINER KIT		1
	DIGITAL MULTIMETER		1
		SOFTWARE (XILINX-8.2)	1
		SOFTWARE (MICROWIND)	1
		SOFTWARE (B2 SPICE)	1
		PC (DESKTOP)	1
		AC (SPLIT 1.5 TON)	3
		PROJECTOR	1
		LASER JET PRINTER & COPIER	1
PROCESS CONTROL LAB.	PLC APPLICATION TRAINER		1
	PROGRAMABLE LOGIC CONTROLLER (VPLCT-01)		1
	PROGRAMABLE LOGIC CONTROLLER (VPLCT-02)		1
	BOTTLE FILLING TRAINER		1
	LEVEL PROCESS STATION		1
	FLOW PROCESS STATION		1
	AIR COMPRESSOR		1
ELECTRONICS MEASUREMENT LAB. / SENSORS & TRANSDUCER LAB.	WATER HEATER		5
	RHEOSTAT		2
	AUTOSTAT		2
	LVDT CHRECTERISTIC MODULE		2
	LCR Q METER		1
	THERMOCOUPLE MODULE		3
	INSTRUMENTATION AMPLIFIER		2
	CAPACITIVE PICK UP TRAINER		1
	PH MEASUREMENT TRAINER		1
	STRAIN MEASUREMENT MODULE		1
	PRESSURE MEASUREMENT USING PIEZO ELECTRIC TRANSDUCER		1
	THERMISTER CHARECTERISTIC TRAINER		1
	DIGITAL DISPLACEMENT TRANSDUCER		1
	DIGITAL IT INDUCTIVE PICK		2

	UP		
	DIGITAL IT STRAIN GUAGE		1
	DIGITAL I.T.R.T.D		1
	DIGITAL IT THERMISTOR CHAR		2
	DIGITAL IT TEMPERATURE INDICATOR		1
	MEASUREMENT OF ANGULAR DISPLACEMENT USING CAPACITIVE TRANSDUCER(DIGITAL)		1
	TEMPERATURE TRANSDUCERS TRAINER		1
	AMPLITUDE MODULATION AND DEMODULATION TRAINER		1
	ACTIVE FILTER TRAINER		2
	HIGH CURRENT LINEAR VARRIABLE DC POWER SUPPLY TRAINER		2
	MAXWELL BRIDGE TRAINER		1
	SCHERING BRIDGE TRAINER		1
	SPECTRUM ANALYZER USING BANK OF FILTERS		1
	WATER LAVEL GAGE		2
	CALIBRATION OF VOLTMETER & AMMETER BY DC POTENTIOMETER		1
	WATER HEATER		1
	AIR FOOT PUMP		1
	FLOW MEASUREMENT TRAINER		1
	HALL EFFECT TRANSDUCER TRAINER		2
	LDR/ PHOTO DIODE/ PHOTO TRANSISTOR TRAINER		2
	STEPPER MOTOR CONTROL TRAINER		2
	DESIGN OF PID CONTROLLER		2
	MEASUREMENT OF STRAIN USING STRAIN GAUGES		1
	DIGITAL IT PRESSURE PICK UP		2
	LEVEL MEASUREMENT SYSTEM		2
	DIGITAL IT SPEED INDICATOR		2
	SPEED CONTROLLER		2
	B.H.CURVE APPARATUS		1
	FUNCTION GENERATOR		2
	CRO		2

MECHANICAL ENGINEERING

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/ Workshop	No. of Equipment(s)
Production Lab (Foundry)	UTM(Universal Sand Testing Machine)	Working	01
	Sand Mixture Machine	Working	01
	Green Compression Strength Machine	Working	01
	Rapid Sand/Clay washer	Working	01
	Sand Rammer	Working	01
	Moisture meter	Working	01
	Permeability meter	Working	01
	Hardness tester	Working	01
	Sieve shaker with set of sieve	Working	01
	Crucible furnace	Working	01
	Cupola furnace	Working	01
	Black Silica Sand Bed	Working	01
	Bentonite Power	Working	01

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/ Workshop	No. of Equipment(s)
Design of Machine Elements Lab	Drawing Board	Working	60
	Drawing Pins	Working	240
	Table	Working	60
	HCL Computer Systems: AUTOCAD Software	Working	15

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/ Workshop	No. of Equipment(s)
Design of Machine Elements Lab	Drawing Board	Working	60
	Drawing Pins	Working	240
	Table	Working	60

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/ Workshop	No. of Equipment(s)
Fluid Mechanics &Hydraulic Machinery	Reciprocating Pump	Working	01
	Centrifugal Pump	Working	01
	Pelton Wheel Turbine	Working	01
	Francis Turbine	Working	01
	Orifice meter	Working	01
	Bernoullis Apparatus	Working	01
	Metacentric Height Apparatus	Working	01
	Impact of Jet Apparatus	Working	01
	Weir and Notches Apparatus	Working	01
	Pipe Friction Apparatus	Not Working	01

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/ Workshop	No. of Equipment(s)
Heat transfer Lab(RME5C2003)	Heat Transfer from pin-fin	Working	01
	Heat Transfer through Metalic Rod	Working	01
	Stefan Boltzman's Apparatous	Working	01
	Emisivity measurement Apparatous	Working	01
	Shell &Tube Heat Exchanger	Not Working	01
	Parallel Flow &Counter Flow Heat Exchanger	Not Working	01

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/ Workshop	No. of Equipment(s)
Machine Drawing and Solid Modelling Lab	HCL Computer Systems : AUTOCAD Software	Working	15

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/ Workshop	No. of Equipment(s)
MACHINES AND MECHANISMS LAB (MEPC2207)	GYROSCOPE	Not Working	01
	STATIC AND DYNAMIC BALANCING APPARATUS	Working	01
	SCREW JACK	Working	01
	FLY WHEEL	Working	01

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/ Workshop	No. of Equipment(s)
MM LABORATORY	Screw Jack.	Working	1
	fly wheel Apparatus	Working	1
	static and dynamic balancing apparatus	Working	1

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/ Workshop	No. of Equipment(s)
MST LABORATORY	Lathe machine	Working	6
	Milling machine	Working	1
	Shaper & Slotting machine	Working	2
	Surface grinding machine	Working	1
	Slotter machine	Working	1
	Lathe tool dynamometer	Working	1
	Drill tool dynamometer	Working	1

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/ Workshop	No. of Equipment(s)
MATERIAL TESTING LAB	Universal Testing Machine [Tensile+ Compressive+ Shear+ Bending]	Working	01
	Fatigue Testing Machine	Working	01
	Tensile & Compressive Spring Testing Machine	Working	01
	Hardness Testing Machine	Working	01
	Impact Testing Machine	Working	01
	Rigidity Modulus Testing Machine	Working	01
	Strain measurement	Working	01
	Stress measurement	Working	01

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/ Workshop	No. of Equipment(s)
THERMAL ENGINEERING LAB	4-stroke petrol engine (multi cylinder)	Not Working	01
	4-stroke diesel engine (multi cylinder)	Working	01
	Refrigeration System	Working	01
	Reciprocating Air Compressor (2 stage)	Working	01
	2- stroke petrol engine (single cylinder)	Working	01
	Cut-section-4 stroke diesel engine (single cylinder)	Working	01
	2- stroke diesel engine model (single cylinder)	Working	01
	2- stroke petrol engine model (single cylinder)	Working	01
	4- stroke diesel engine model (single cylinder)	Working	01
	4- stroke petrol engine model (single cylinder)	Working	01

CIVIL ENGINEERING

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/Workshop	No. of Equipment(s)
BUILDING DRAWING PRACTICE	System with AUTOCAD software		13

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/Workshop	No. of Equipment(s)
COMPUTER AIDED DESIGN	SYSTEM WITH MAT LAB SOFTWARE		01

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/Workshop	No. of Equipment(s)
GEOTECHNICAL ENGINEERING LABORATORY	Pycnometer		04
	IS sieve		02 sets
	Casagrande apparatus, Plastic limit apparatus Shrinkage limit apparatus		02 02 02
	Core cutter		03
	Standard compaction apparatus		01
	Relative density apparatus		01
	CBR test apparatus		01

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/Workshop	No. of Equipment(s)
MATERIAL TESTING LABORATORY	IS sieve		
	Vicat apparatus		03
	Le chatelier apparatus Pycnometer Cube mould Manual compressive strength machine		06 04 05 01
	Crushing test appartus		01

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/Workshop	No. of Equipment(s)
SURVEY FIELD WORK	CHAIN TAPE RANGING ROD ARROWS		03 03 35 20
	COMPASS		05
	THEODOLITE		05
	DUMPY LEVEL LEVELLING STAFF SPIRIT LEVEL PLUMB BOB		04 05 08 08

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/Workshop	No. of Equipment(s)
WATER SUPPLY & SANITARY ENGINEERING LABORATORY	Digital water analysis kit		01
	Chemical kit test		01
	Chemicals		01
	COD test of water		01
	DO TEST OF WATER		01
	Ph test of water		01
	Chloride test of water		01

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/Workshop	No. of Equipment(s)
DESIGN OF CONCRETE STRUCTURES LAB	SLUMP CONE COMPACTION FACTOR APPARATUS FLOW TABLE APPARATUS		08 01 01
DESIGN OF CONCRETE STRUCTURES LAB	CUBE MOULD		05

Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/Workshop	No. of Equipment(s)
STEEL STRUCTURES LAB	NO EQUIPMENT		

ANNEXURE –18

Department Data for List of Experimental Setup in each Laboratory / Workshop

COMPUTER SCIENCE & ENGINEERING

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
LAB NO 1 (PROJECT / CN LAB)	– Desktop Computers – Linux Platform – Internet & Networking Setup – Compilers (C, Java, Python) – IDEs (Visual Studio Code, NetBeans) – Projector & Whiteboard
LAB NO 2 (PROGRAMMING LAB)	– Desktop Computers – Linux Platform – Internet & Networking Setup – Compilers (C, Java, Python) – Whiteboard
LAB NO 4 (DATABASE / DAA LAB)	– Desktop Computers – Linux Platform – Internet & Networking Setup – Compilers (C, Java, Python) – Whiteboard
LAB NO 5 (OS / COA LAB)	– Desktop Computers – Linux Platform – Internet & Networking Setup – Compilers (C, Java, Python) – IDEs (Visual Studio Code, NetBeans) – Whiteboard
LAB NO 6 (EVALUATION CENTER / LAB)	– Desktop Computers – Linux Platform – Internet & Networking Setup – Compilers (C, Java, Python) – Whiteboard
LAB NO 7 (DEPARTMENTAL SEMINAR / LAB)	ICT Enable Lab facility with Internet & Networking setup. Projector and Whiteboard is available. Departmental seminar and workshop conducting facility available

ELECTRICAL ENGINEERING

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop	
BASIC ELECTRICAL ENGG.LAB.	Preliminary: Preparation of symbol chart for various systems & components as per ISS, to study the constructional & operational features for Voltmeter, Ammeter, Wattmeter, Frequency meter, multi-meter and Rheostat, Study of safety rules.	Display of all Electrical measuring instrument both AC/DC
	Demonstration of cut-out sections of machines: dc machine (commutator-brush arrangement), induction machine (squirrel cage rotor), synchronous machine (field winging - slip ring arrangement) and single- phase induction machine.	Wall manual of cutout section of AC/DC machines
	Measurement of the armature & field resistance of D.C. Machine by volt-amp method.	DC shunt motor-5hp DC regulated power supply,(0-30)v,1A Ammeter(0-5A)dc Voltmeter(0-300v)dc Rheostat(0-300ohm),1.5 A Connecting wires-1.5mm insulated Cu wire
	Starting and speed control of a D.C. shunt motor	DCshunt motor-5hp,1500rpm,220v 3 point starter 3h.p,220v dc Field regulator,5hp,220vdc Rheostat-(0-260 ohm),1.5A (separately excited) Voltmeter(0-300v)dc; Ammeter-(0-5A)dc Tachometer digital type Connecting wires-1.5 mm Cu wire
	Study of BH Curve of ferromagnetic core.	B-H curve apparatus ME566 CRO Connecting probes

	Determination of open circuit characteristics (O.C.C) of D.C shunt generator when separately excited at different speeds and different excitation levels.	DC shunt generator-3h.p,1500rpm,220v,2A 3 point starter 3h.p,220v dc Field regulator,5hp,220vdc Rheostat-(0-100 ohm),5A Voltmeter(0-300v)dc Ammeter-(0-1A)dc Tachometer digital type Connecting wires-1.5 mm Cu wire
	Calibration of a single-phase Energy Meter by direct loading.	Single phase energy meter 240v,50hz Load box(0-100 watt) Stop watch digital type Ammeter(0-20A)MItype Voltmeter(0-300v),MI type Single phase variac-(0-230 v) Connecting wires-1.5 mm Cu wire
	Measurement of power & power factor of a single-phase circuit	Capacitor Loading inductor-3kva,230v Variable resistive load (0-1000)ohm,10A Ammeter(0-5A) Voltmeter(0-300v) Wattmeter-(0-250w) Variac -(0-260v)AC DPST switch 32 A,230v
	Measurement of earth resistance and insulation resistance.	Meggar Insulation testor(0-200)megaohm
	Verification of Thevenin and Norton's theorem	Thevenin and Norton's trainer KIT Multimeter digital type Patch chords

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop	
POWER SYSTEM LAB.	To study the IDMT over-current relay with different PSM & TSM and plot its time–current characteristics.	IDMT OC relay kit. Multimeter Patch chords
	To study the IDMT over-voltage relay with different PSM & TSM and plot its time – voltage characteristics.	IDMT over voltage relay kit. Multimeter-1 Patch chords-6
	To study the IDMT under-voltage relay with different PSM and TSM and plot its time – current characteristics.	IDMT under voltage relay kit. Multimeter-1 Patch chords-6
	To study the negative sequence relay.	Negative sequence relay kit Multimeter-1 Patch chords-6
	To study the operating characteristics of % biased differential relay.	%Biased differential relay kit Rheostat-2 Multimeter-1 Patch chords-6

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop	
CONTROL SYSTEM	To observe the time response of a second order process with P, PI and PID control and apply PID control to servomotor	PID Control Kit-1 No Patch chord- 12 Nos CRO-1 No
	Measurement of linear displacement using LVDT	LVDT Kit Set-1 No Patch Chrods-1 No Multimeter-1 No
	Study of speed torque characteristics of two-phase ac servomotor and determination of its transfer function	AC servomotor Kit-1 No Weight- 10 Nos Patch chord-4 Nos
	To study and validate the controllers for a temperature control system	Temp controller Kit -1 No Thermometer-1 No Electric Cattle-1 No Power Chord-2 No
	Study of a dc motor driven position control system	DC Servomotor Kit- 1No Multimeter-1 No Power Chord- 2No
	To study the position control system using Synchroscope.	Synchronoscope Kit- 1 No Patch Chord- 6 No

	To measure unknown resistance, inductance and capacitance using different bridges.	Bridge Kit – 1 no Patch Chord-20 Nos
	Calibration of Single-phase Energy meter	Energy Meter- 1 No. Tester-1no Multimeter- 1 No Voltmeter-1 No Ammeter- 1 No Load Box- 1kW
	To determine the transfer function of a system (network) using transfer function analyzer	Transfer Function Analyzer Kit- 1No Patch Chord- 1O Nos Multimeter- 1 Nos
	Study of temperature voltage characteristic of J type thermocouple	Thermocouple Kit-1 Nos Multimeter-1No Patch chord-10 Nos

Name of the Laboratory	Topic as per BPUT syllabus	List of Major Equipment	Facilities in each Laboratory	No. of Equipment(s)
ELECTRICAL MACHINE 2	Determination of the voltage regulation of an alternator by synchronous impedance method and zero power factor (zpf) method	3-PHASE ALTERNATOR COUPLED WITH D.C MOTOR 3KVA ,3 PHASE 413V,4A, EX-160V 1500RPM +5 HP ,220V ,800 A,1500 rpm	Experimental Setup FOR THE EXPERIMENT WITH PANAL BOARD AND MEASURING INSTIMENYS	1+1
	Determination of the V and inverted V curves of a synchronous motor	1-SYNCHRONOUS MOTOR 3 phase Power 5 -H.P 415 V 6 A 50 .Hz SPEED-1500 RPM Delta connected Excitation voltage =110 V	DO	1
	Speed control of a three phase induction motor using variable frequency drives.	1-THREE PHASE SYNCHRONOUS GENE3KVA ,3 PHASE 413V,4A, EX-160V 1500RPM RATOR 2-D.C SHUNT MOTO5 HP , 220V , 1800 A, 1500 rpm R 3-THREE PHASE INDUCTION MOTOR5HP.,415V,6A, 3-PHASE	DO	1+1+1
	Determination of parameters of synchronous machine (a) Positive sequence reactance (b) Negative sequence reactance (c) Zero sequence reactanc	1-THREE-PHASE SYNCHRONOUS GENERATOR 2-D.C SHUNT MOTOR 5 HP , 220V , 1800 A, 1500 rpm	DO	1
	Determination of parameters of three phase induction motor from No Load Test and Blocked Rotor Test	three phase induction motor5HP.,415V,6A, 3-PHASE	DO	
	Determination of parameter of a Capacitor start single phase induction motor	Capacitor start single phase induction motor I H.P,220V ,6A ,1440RPM	DO	1
	Study of parallel operation of two alternators	THREE PHASE SYNCHRONOUS GENERATOR 3KVA ,3 PHASE 413V,4A, EX-160V 1500RPM RAM SON &SON CONTROL PANAL FOR PARALALLEL OPERATION	DO	2
	Measurement of direct and quadrature axis reactance of a salient pole synchronous machine by Slip test.	THREE PHASE SYNCHRONOUS GENERATOR	DO	1
	Measurement of transient and sub transient reactance of a salient pole alternator	THREE PHASE SYNCHRONOUS GENERATOR	DO	1
	Determination of parameters of three phase induction	three phase induction motor5HP.,415V,6A, 3-PHASE	DO	1

	motor from No Load Test and Blocked Rotor Test			
	Determination of Efficiency, Plotting of Torque-Slip Characteristics of Three Phase Induction motor by Brake Test	Three Phase Induction motor5HP.,415V,6A, 3-PHASE	DO	1

List of Experimental Setup in machine -1 Laboratory
Name of Lhe Laboratory : ELECTRICAL MACHINE 1 Laboratory

Determination of Efficiency and Voltage Regulation by Open Circuit and Short Circuit test on single phase transformer.

NAME OF MACHINE	SPECIFICATON
SINGLE PHASE TRANSFORMER	1KVA110/220V

APPARATUS REQUIRED

NAME OF APPARATUS	TYPE	RANGE	QUANTITY
Ammeter	A.C/MI	(0-2A),(0-10A)	2
Voltmeter	A.C	(0-300)V,(0-50)V	2+1
Single phase variac	A.C	(0-260V),20A	1
Wattmeter	A.C	2.5A,250V/10A,50V	1
Tester,cutter,plier			1each
Connecting wires		3/22 S.W.G	

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Name of machine	SPECIFICATON…
SINGLE PHASE RANSFORMER(T1) AND T2)	1KVA 110/220V

APPARATUS REQUIRED

NAME OF APPARATUS	TYPE	RANGE	QUANTITY
Ammeter	A.C	(0-5A)	2
Voltmeter	A.C	(0-300V),(0-500V)	2
Single phase variac	A.C	(0-260)V,20A	1
Wattmeter	A.C	(0-600W),250V,15A	3
Ammeter	A.C	(0-10)A	1
Load box		1KW	1

Back-to Back test on two single phase transformers

Name of machine	SPECIFICATON
SINGLE PHASE TRANSFORMER(T1)and (T2)	1KVA 110/220V

APPARATUS REQUIRED

NAME OF APPARATUS	TYPE	RANGE	QUANTITY
Ammeter	A.C	(0-2A) (0-10A)	2+1
Voltmeter	A.C	(0-50V),(0-600V)	2
Wattmeter	A.C	(0-300W),	2

Study of open delta and Scott connection of two single phase transformers

Name of Machine	SPECIFICATON…
SINGLE PHASE TRANSFORMER(T1) AND T2)	1KVA 110/220V

APPARATUS REQUIRED

NAME OF APPARATUS	TYPE	RANGE	QUANTITY
Ammeter	A.C	(0-10A)	5
Voltmeter	A.C	(0-300V),	1
Three phase auto transformer	A.C	(0-260)V,20A	1
Load box	resistive	1KW	2

Determination of Critical resistance and critical speed from No load test of D.C shunt generator.

MACHINE SPECIFICATION

Name of machine	SPECIFICATON
D.C SHUNT MOTOR	3 HP DC MOTO 220 V FIELD CURENNT -2A
D.C SHUNT GENERATOR	2KW DC GENERATOR

APPARATUS REQUIRED

NAME OF APPARATUS	TYPE	RANGE	QUANTITY
Ammeter	D.C	(0-1)A	1
Voltmeter	D.C	(0-300)V	1
Variable field rheostat		100ohm,5A	1
3point starter		-	1
Digital tachometer			1
Field regulator		100ohm,5A,3kva	1
Connecting wires	Cu	3/22S.W.G,	12
tester			1
Cutter,plier			1 each

Speed Control Of D.C Motor By Using Armature Control and Field Control Method

MACHINE SPECIFICATION

Name of machine	SPECIFICATON
D.C SHUNT MOTOR	3HP,18A,220V.1500RPMp.m

APPARATUS REQUIRED

S.l n.o	NAME OF APPARATUS	TYPE	RANGE	QUANTITY
1	Ammeter	D.C	(0-2)A	1
2	Voltmeter	D.C	(0-300)V	1
3	Field rheostat		100 ohm,5A	1
3	3point stator	-	--	1
4	Tachometer	--	--	1
5	Field regulator		100 0hm,5A	1
6	Connecting wires, cutter,plier	-	-	1 each

Determination of parameters of three phase induction motor from No Load Test and Blocked Rotor Test

Load test of d.c shunt generator

Name of machine	SPECIFICATON
D.C SHUNT MOTOR	3 HP DC MOTOR 220V
D.C SHUNT GENERATOR	2KW DC GENERATOR

APPARATUS REQUIRED

NAME OF APPARATUS	TYPE	RANGE	QUANTITY
Ammeter	D.C	(0-1)A	1
Voltmeter	D.C	(0-300)V	1
Variable Field Rheostat		100ohm,5A	1
3point Starter		-	1
Digital Tachometer			1
Field Regulator		100ohm,5A,3kva	1
Connecting Wires	Cu	3/22S.W.G,	12
Tester			1
Cutter,Plier			1 each

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop	
EEPC2201 ELECTRICAL CIRCUIT ANALYSIS LAB	Validation of Network Theorems using AC circuits (Superposition, Thevenin, Norton, Maximum power transfer)	Study trainer kit Digital multimeter Patch chords
	Study of DC and AC transients for R-L, R-C & R-L-C circuits using digital storage oscilloscope	Study trainer kit Digital storage oscilloscope. Function Generator Patch chords
	Determination of two port network parameters (open circuit and short circuit parameters)	Study trainer kit Digital multimeter Patch chords
	Determination of two port network parameters(hybrid and transmission parameters).	Study trainer kit Digital multimeter

		Patch chords
	Frequency response of low pass and high pass filters.	Passiv filter trainer kit Function Generator Patch chords Digital multimeter Digital storage oscilloscope.
	Frequency response of band pass and band elimination filters	Passiv filter trainer kit Function Generator Patch chords Digital multimeter Digital storage oscilloscope
	Determination of self-inductance, mutual-inductance and coupling coefficient of a single-phase two winding transformer representing a coupled circuit.	1 phase two winding T/F / (1KVA , 230/230 V Transformer Connecting wirE Voltmeter (0- 300 v) Ammeter (0 – 10 A) / Study trainer kit Digital multimeter Patch chords
	Study of series and parallel connected magnetically coupled circuits	Study trainer kit AC Signal Generator Voltmeter Ammeter Digital multimeter Patch chords
	Study of resonance in R-L-C series circuit using oscilloscope.	Study trainer kit Function Generator Digital storage oscilloscope. Patch chords
	Study of resonance in R-L-C parallel circuit using oscilloscope	Study trainer kit Function Generator Digital storage oscilloscope Patch chords

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
ELECTRIC POWER TRANSMISSION AND DISTRIBUTION LABORATORY	1.Study and Ferranti Effect 2 Determination of ABCD Parameter using kit. 3. Determination of String efficiency Of Insulators 4. Earth resistance measurement 5. Study of various lightning arresters 6.Distribution system power factor improvement using switched capacitor 7.Study of corona discharge 8. Series and Shunt capacitance computation in transmission line 9.Determination of ABCD parameters using MATLAB

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
POWER ELECTRONICS LABORATORY	Study of the V-I characteristics of SCR, TRIAC, IGBT and MOSFET
	Study of the cosine controlled triggering circuit
	To measure the latching and holding current of a SCR
	Study of the single phase half wave controlled rectifier and semiconverter with R and R-L Load
	Study of single phase full wave controlled rectifier circuits (Bridge type)R, R-L Load with freewheeling diode
	Study of the Buck converter
	Study of the boost converter
	Study and operate the series inverter and observe the output waveform across resistive load.
	Study of three phase full wave controlled rectifier circuits (Bridge type)R, R-L Load
	Study of UJT triggering and determine V-I characteristics.

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop	
BASIC ELECTRONICS LAB.	1.Familiarity with electronic components and devices(Testing of semiconductor diode, Transistor, IC Pins connection) Digital Multimeter should be used.	Digital Multimeter, Acive and Passive Components.
	2. Study and use of CRO to view waveforms and measure its Amplitude and Frequency.	CRO
	3 .V-I Characteristics of a Semiconductor Diode	Microlab Trainer Kit, Digital Multimeter, Diode 1N4007,Resistor
	4 .V-I (Output) Characteristics of N-P-N/P-N-P Transistor in CE Configuration	Microlab Trainer Kit, Digital Multimeter,Transistor BC547
	5. Measurement of pinch off voltage and plot transfer characteristics and drain characteristics of JFET.	Microlab Trainer Kit, Digital Multimeter, FET BFW10,Resistor
	6 .Transfer characteristics and drain characteristics of MOSFET.	MOSFET 2N7000, Microlab Trainer Kit, Digital Multimeter, Resistor
	7. OP-AMP: Inverting and Non-Inverting Configuration. Record of Waveforms.	Microlab Trainer Kit,DSO,OPAMP 741IC, Resistor
	8. Verification of Truth table of Logic gates (AND, OR,NOT, NAND, NOR, EX-OR)	Microlab Trainer Kit, IC(7408,7432,7404,7400,7402,7486)
	9. Half Wave and Full Wave Rectifier without Capacitor filter. Record of Waveforms, Measurement of Average and RMS value.	Microlab Trainer Kit, DSO, Diode1N4007,Resistor,Capacitor
	10. Implementation of digital circuit using Universal gates.	Microlab Trainer Kit, IC(7400,7402)
ANALOG ELECTRONIC CIRCUIT LABORATORY	1. Design and simulate voltage divider biasing circuits using BJT-CE configuration and compare the results.	Microlab Trainer Kit, BJT 547,Digital Multimeter
	2. Design and simulate of voltage divider biasing circuits using JFEET-CS configuration.	Microlab Trainer Kit, FET BFW10, Digital Multimeter
	3. Design and simulate of Self-biasing circuits of MOSFET.	Microlab Trainer Kit, MOSFET 2N7000, Digital Multimeter
	4. Determine the frequency response of BJT CE- amplifier: low frequency, Mid-frequency and high frequency response.	Microlab Trainer Kit, Function Generator, DSO, Digital Multimeter, BJT 547
	5. Determine the frequency response of BJT emitter follower (CC-amplifier) circuit.	Microlab Trainer Kit, Function Generator, DSO, Digital Multimeter, BJT 547
	6. Determine the frequency response of JFET CS- amplifier Circuit.	Microlab Trainer Kit, Function Generator, DSO, Digital Multimeter, FET BFW10
	7. Study of OPAMP frequency response.	Microlab Trainer Kit, Function Generator, DSO,OP AMP 741
	8. Study of integrator and differentiator circuits using OPAMP.	Microlab Trainer Kit,DSO,OPAMP 741IC, Resistor,Capacitor
	9. Study of RC phase shift oscillator using BJT/OPAMP.	RC phase shift oscillator Trainer Kit
	10. Study of Class A, B power amplifier.	Class A, B power amplifier Trainer Kit
SIGNALS AND SYSTEMS LABORATORY	1. Introduction to MATLAB and its basic toolboxes required for the analysis of signals and systems. To study use variables, vectors, Matrices & its functions in MATLAB. To Perform basic operations such as addition, subtraction, multiplication, division and transpose of vector and Matrix and plot its results.	MATLAB 7
	2. Generation of basic continuous-time periodic signals, i.e., sine, cosine, square, etc. and plot its results in MATLAB.	
	3. Generation of basic continuous-time aperiodic signals, i.e., ramp, exponential, rectangular pulse, step, impulse, etc. and plot its results in MATLAB.	MATLAB 7
	4. Computation of convolution of discrete-time periodic signals in MATLAB using program logic and inbuilt function.	MATLAB 7
	5. Computation of convolution of discrete-time aperiodic signals in MATLAB using program logic and inbuilt function.	MATLAB 7
	6. Implementation of a difference equation in MATLAB.	MATLAB 7
	7. Generation of frequency response of an LTI system from its impulse response in MATLAB.	MATLAB 7

	8. Computation of discrete-time Fourier series (DTFS) of fundamental signals in MATLAB.	MATLAB 7
	9. Computation of discrete-time Fourier transform (DTFT) of fundamental signals in MATLAB.	MATLAB 7
	10. Frequency domain analysis of decimation and interpolation of signals in MATLAB.	MATLAB 7
DIGITAL ELECTRONICS LABORATORY	1. Digital Logic Gates: Investigate logic behavior of AND, OR, NAND, NOR, EX-OR, EX-NOR, Invert and Buffer gates, use of Universal NAND Gate.	Microlab Trainer Kit, IC(7408,7432,7404,7400,7402,7486)
	2. Gate-level minimization: Two level and multi level implementation of Boolean functions.	Microlab Trainer Kit, IC 7408 & 7432
	3.Combinational Circuits: design, assemble and test: adders and subtractors, comparators	Microlab Trainer Kit, IC 7408 ,7486 ,7432,7404
	4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display	Microlab Trainer Kit, IC 7486 , 7447,LT542(Display Device)
	5.Design and Implementation of a function using MLTX/ DEMUX	Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411
	6.Design of functions using encoder, decoder	Microlab Trainer Kit, IC 74138, 7408,7404,7432
	7.Flip-Flop: assemble, test and investigate operation of SR, D & J-K flip-flops.	Microlab Trainer Kit, IC 7400, 7476,7474
	8.Shift Registers: Design and investigate the operation of all types of shift registers with parallel load.	Microlab Trainer Kit, IC 7408, 7404, 7432, 7495
	9. Counters: Design, assemble and test various ripple and synchronous counters - decimal counter, Binary counter with parallel load.	Microlab Trainer Kit, IC 7476, 7408, 7432
	10.Design of Binary Multiplier	Microlab Trainer Kit, IC 7408, 7486
DIGITAL SYSTEM DESIGN	Digital Logic Gates: Investigate the logic behavior of AND, OR, NAND, NOR, EX-OR, EX-NOR, Inverter, and Buffer gates, and demonstrate the use of the Universal NAND gate.	Microlab Trainer Kit, IC(7408,7432,7404,7400,7402,7486)
	Gate-Level Minimization: Implement and verify two-level and multi-level Boolean functions.	Microlab Trainer Kit, IC 7408 & 7432
	Combinational Circuits: Design, assemble, and test adders and subtractors, code converters, gray code to binary converters, and 7-segment displays.	Microlab Trainer Kit, IC 7408 ,7486 ,7432,7404, 7486 , 7447,LT542(Display Device)
	Minimal Gate Designs: Design, implement, and test a given example using (i) NAND gates only, (ii) NOR gates only, and (iii) the minimum number of gates.	Microlab Trainer Kit, IC 7408 & 7432
	Multiplexers and De-Multiplexers: Design circuits using multiplexers and de-multiplexers.	Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411
	Flip-Flops: Assemble, test, and investigate the operation of SR, D, and J-K flip-flops.	Microlab Trainer Kit, IC 7400, 7476,7474
	Shift Registers: Design and analyze the operation of various types of shift registers with parallel load.	Microlab Trainer Kit, IC 7408, 7404, 7432, 7495
	Verilog/VHDL Simulation and Implementation : adders and subtractors	Xilinx 8.2
	Verilog/VHDL Simulation and Implementation: SR, D, and J-K flip-flops	Xilinx 8.2
	Verilog/VHDL Simulation and Implementation: shift registers with parallel load.	Xilinx 8.2
PRINCIPLES OF COMMUNICATION SYSTEMS LAB	1. Analyse and plot the spectrum of following signals with aid of spectrum analyzer: Sine wave, square wave, triangle wave, saw-tooth wave of frequencies 1 KHz, 10 KHz, 50 KHz, 100KKz and 1 MHz.	spectrum analyzer ST 2653, 8010TG, Digital Storage Oscilloscope, Function Generator
	2. Analyze the process of frequency division multiplexing and frequency division demultiplexing.	FDM Kit ACL 06, Digital Storage Oscilloscope
	3. Study and design of AM modulator and demodulator. (Full AM, SSB, DSBSC, SSBSC).	AM modulator and demodulator Kit (ACL 01 and ACL 02), Digital Storage Oscilloscope
	4. Study of FM modulation and Demodulation Techniques.	FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital Storage Oscilloscope
	5. Study the functioning of PCM and Delta modulator; Demonstrate the process of PCM modulation and Delta modulation.	PCM Kit (DCL 03 and DCL 04), DM Trainer Kit ST 2105, Digital Storage Oscilloscope
	6. Study of PLL as FM demodulator.	FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital Storage Oscilloscope
	7. Using MATLAB/ LABVIEW generate a carrier and a modulating signal. Modulate the carrier using AM. Show the	MATLAB 7

	waveform in time domain and analyze its frequency spectrum. Repeat the simulation for modulating signal being square, triangular and other forms waveform.	
	8. Using MATLAB/ LABVIEW generate a carrier and a modulating signal. Modulate the carrier using FM. Show the waveform in time domain and analyze its frequency spectrum. Repeat the simulation for modulating signal being square, triangular and other forms waveform.	MATLAB 7
	9. Using MATLAB/LABVIEW study the pre-emphasis and de-emphasis.	MATLAB 7
	10. Using MATLAB.LABVIEW study the Spectrum Analysis of Modulated Signal Using Spectrum Analyzer.	MATLAB 7
MICROPROCESSORS AND MICROCONTROLLERS LABORATORY	1.Programs for 16-bit arithmetic operations using 8086.	8086 Trainer Kit
	2.Programs for Sorting and Searching (Using 8086).	8086 Trainer Kit
	3.Programs for String manipulation operations (Using 8086).	8086 Trainer Kit
	4.Programs for Digital clock and Stop watch (Using 8086).	8086 Trainer Kit
	5.Interfacing ADC and DAC.	8086 Trainer Kit, DAC Kit, ADC Kit
	6.Parallel Communication between two MP Kits using Mode 1 and Mode 2 of 8255.	8086 Trainer Kit, 8255 PPI
	7.Programming and verifying Timer, Interrupts and UART operations in 8051	8051 Microcontroller Kit
	8.Serial Communication between two MP Kits using 8251.	8086 Microprocessor Kit, 8251 Kit
	9.Programming using Arithmetic, Logical and Bit Manipulation instructions of 8051microcontroller.	8051 Microcontroller Kit
	10.Communication between 8051 Microcontroller kit and PC.	8051 microcontroller Kit
ANALOG AND DIGITAL COMMUNICATION LABORATORY	1.Analyze and plot the spectrum of following signals with aid of spectrum analyzer: Sine wave, square wave, triangle wave, saw-tooth wave of frequencies 1 KHz, 10 KHz, 50 KHz, 100KKz and 1 MHz.	spectrum analyzer ST 2653, 8010TG, Digital Storage Oscilloscope, Function Generator
	2.Analyze the process of frequency division multiplexing and frequency division demultiplexing.	FDM Kit ACL 06, Digital Storage Oscilloscope
	3.Study and design of AM modulator and demodulator. (Full AM, SSB, DSBSC, SSBSC)	AM modulator and demodulator Kit (ACL 01 and ACL 02), Digital Storage Oscilloscope
	4.Study of FM modulation and Demodulation Techniques.	FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital Storage Oscilloscope
	5. Using MATLAB/ LABVIEW generate a carrier and a modulating signal. Modulate the carrier using AM. Show the waveform in time domain and analyze its frequency spectrum. Repeat the simulation for modulating signal being square, triangular and other forms waveform.	MATLAB 7
	6. Using MATLAB/ LABVIEW generate a carrier and a modulating signal. Modulate the carrier using FM. Show the waveform in time domain and analyze its frequency spectrum. Repeat the simulation for modulating signal being square, triangular and other forms waveform.	MATLAB 7
	7. Study the functioning of PCM and Delta modulator; Demonstrate the process of PCM modulation and Delta modulation.	PCM Kit (DCL 03 and DCL 04), DM Trainer Kit ST 2105, Digital Storage Oscilloscope
	8.Generation and reception of different types of signals like ASK, PSK, FSK.	Modulator and Demodulator Trainer Kit-ST2106, ST2107, Digital Storage Oscilloscope
	9. Experimentally compare different forms of BPSK, QPSK, and OQPSK and analyze their Spectrum with spectrum analyzer.	Modulator and Demodulator Trainer Kit-ST2106, ST2107, Digital Storage Oscilloscope
	10. To transmit PC data through satellite link using a satellite communication demonstration unit.	Satellite Uplink transmitter, satellite downlink receiver and satellite link emulator,RHCP &LHCP axial mode helix antennas, Antenna stands with connecting cables reflecting sheet
DIGITAL SIGNAL PROCESSING LABORATORY	1.Familiarization with the architecture of a standard DSP kit (Preferably TMS 320C6XXX DSP kit of Texas Instruments)	DSP kit TMS 320C5X, VI MIcrosystem Private LTD.
	2.Generation of various types of waveforms (sine, cosine, square, triangular etc.) using MATLAB and DSP kit.	MATLAB 7, DSP kit TMS 320C5X, VI MIcrosystem Private LTD.
	3.Linear convolution of sequences (without using the inbuilt conv. function in MATLAB) and verification of linear convolution using DSP kit.	MATLAB 7, DSP kit TMS 320C5X, VI MIcrosystem Private LTD.
	4. Circular convolution of two sequences and comparison of the	MATLAB 7, DSP kit TMS 320C5X,

	result with the result obtained from linear convolution using MATLAB and DSP kit.	VI MIcrosystem Private LTD.
	5. (i) Computation of autocorrelation of a sequence, cross correlation of two sequences using MATLAB. (ii) Computation of the power spectral density of a sequence using MATLAB also implementing the same in a DSP kit.	MATLAB 7, DSP kit TMS 320C5X, VI MIcrosystem Private LTD.
	6. Finding the convolution of a periodic sequence using DFT and IDFT in MATLAB.	MATLAB 7, DSP kit TMS 320C5X, VI MIcrosystem Private LTD.
	7. (i) Implementation of FFT algorithm by decimation in time and decimation in frequency using MATLAB. (ii) Finding the FFT of a given 1-D signal using DSP kit and plotting the same. 8.Design and implementation of FIR (lowpass and highpass) Filters using windowing techniques (rectangular window, triangular window and Kaiser window) in MATLAB and DSP kit.	MATLAB 7, DSP kit TMS 320C5X, VI MIcrosystem Private LTD.
	9.Design and implementation of IIR (lowpass and highpass) Filters (Butterworth and Chebyshev) in MATLAB and DSP kit.	MATLAB 7, DSP kit TMS 320C5X, VI MIcrosystem Private LTD.
	10. (i) Convolution of long duration sequences using overlap add, overlap save using MATLAB. (ii) Implementation of noise cancellation using adaptive filters on a DSP kit.	MATLAB 7, DSP kit TMS 320C5X, VI MIcrosystem Private LTD.
MICROWAVE ENGINEERING LAB	1.Reflex Klystron Characteristics	Microwave Test Bench
	2. Gun Diode Characteristics	Microwave Test Bench
	3. Directional Coupler Characteristics	Microwave Test Bench
	4. Measurement of Voltage Standing Wave Ratio.	Microwave Test Bench
	5. Radiation Pattern Measurement of a Horn Antenna	Microwave Test Bench
	6. Impedance, Wavelength and Frequency Measurement.	Microwave Test Bench
	7. Determination of Polarization of Horn antenna.	Microwave Test Bench
	8. Measurement of Scattering Parameters.	Microwave Test Bench
	9. Coupling Measurement of H-plane, E-Plane and Magic Tee junctions.	Microwave Test Bench
	10. Measurement of Dielectric Constant.	Microwave Test Bench
WIRELESS COMMUNICATION LAB	1. Evaluate the impact of path loss and shadowing in estimation of received signal power in mobile cellular communication using fading channel mobile communication virtual lab.	Virtual Lab
	2. Calculate the boundary coverage probability in a cellular system using fading channel mobile communication virtual lab.	Virtual Lab
	3. Demonstrate the impact the received power levels for hand-off in case of mobile cellular communication using fading channel mobile communication virtual lab.	Virtual Lab
	4. Estimate the impact of sectoring in increasing cellular system capacity using fading channel mobile communication virtual lab.	Virtual Lab
	5. Examine the impact of co-channel interference on the value of SIR in mobile cellular communication using fading channel mobile communication virtual lab.	Virtual Lab
	6. Setting up of LTE 2x2 MIMO system for establishing two way communication.	Virtual Lab
	7.Study of pure ALOHA and slotted ALOHA protocols for WLAN System.	Virtual Lab
	8. Configure ZigBee module as an end device and, set up a communication link with two ZigBee modules.	Virtual Lab
	9. Study of RFID system and its applications.	Virtual Lab
	10. Using IE3D, design a rectangular micro strip patch antenna for inset feed for operating frequency of 1.88 GHz, relative permittivity of 4.4 and length of 31 mils.	Virtual Lab
COMMUNICATION ENGINEERING LAB	1.Analyse and plot the spectrum of following signals with aid of spectrum analyser:Sine wave, square wave, triangle wave, saw-tooth wave of frequencies 1 KHz, 10 KHz, 50 KHz, 100KKz and 1 MHz.	spectrum analyzer ST 2653, 8010TG, Digital Storage Oscilloscope, Function Generator
	2. Analyse the process of frequency division multiplexing and frequency division demultiplexing.	FDM Kit ACL 06, Digital Storage Oscilloscope
	3. Study and design of AM modulator and demodulator. (Full AM, SSB, DSBSC, SBSC)	AM modulator and demodulator Kit (ACL 01 and ACL 02), Digital Storage Oscilloscope
	4. Study of FM modulation and Demodulation Techniques.	FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital Storage Oscilloscope

	5. Observer the process of PAM, quantization and determination of quantization noise. Multiplex 2-4 PAM/ PPM and PWM signals.	Kit DCL 06, Digital Storage Oscilloscope
	6. Using MATLAB/ LABVIEW generate a carrier and a modulating signal. Modulate thecarrier using AM. Show the waveform in time domain and analyze its frequencyspectrum. Repeat the simulation for modulating signal being square,triangular and other forms waveform.	MATLAB 7
	7. Using MATLAB/ LABVIEW generate a carrier and a modulating signal. Modulate the carrier using FM. Show the waveform in time domain and analyze its frequency spectrum. Repeat the simulation for modulating signal being square,triangular and other forms waveform.	MATLAB 7
	8. Design a receiver to demodulate and receive the signal from AM radio station.	Microlab Trainer Kit
	9. Design a receiver to demodulate and receive the signal from the local FM radio station.	Microlab Trainer Kit

ELECTRICAL AND ELECTRONICS ENGINEERING

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop	
BASIC ELECTRONICS LAB. (23ES1202)	Familiarity with electronic components and devices (Testing of semiconductor diode, Transistor, IC Pins connection) Digital Multimeter should be used.	Digital Multimeter, Active and Passive Components.
	Study and use of CRO to view waveforms and measure its Amplitude and Frequency.	CRO
	V-I Characteristics of a Semiconductor Diode	Microlab Trainer Kit, Digital Multimeter, Diode 1N4007, Resistor
	V-I (Output) Characteristics of N-P-N/P-N-P Transistor in CE Configuration	Microlab Trainer Kit, Digital Multimeter, Transistor BC547
	Measurement of pinch off voltage and plot transfer characteristics and drain characteristics of JFET.	Microlab Trainer Kit, Digital Multimeter, FET BFW10, Resistor
	Transfer characteristics and drain characteristics of MOSFET.	MOSFET 2N7000, Microlab Trainer Kit, Digital Multimeter, Resistor
	OP-AMP: Inverting and Non-Inverting Configuration. Record of Waveforms.	Microlab Trainer Kit, DSO, OPAMP 741 IC, Resistor.
	Verification of Truth table of Logic gates (AND, OR, NOT, NAND, NOR, EX-OR)	Microlab Trainer Kit, IC (7408,7432,7404,7400,7402,7486)
	Half Wave and Full Wave Rectifier without Capacitor filter. Record of Waveforms, Measurement of Average and RMS value.	Microlab Trainer Kit, DSO, Diode1N4007, Resistor, Capacitor
	Implementation of digital circuit using Universal gates.	Microlab Trainer Kit, IC (7400,7402)
ANALOG & DIGITAL ELECTRONIC CIRCUIT LABORATORY (EOPC2202)	Design and simulate voltage divider biasing circuits using BJT-CE configuration and compare the results.	Microlab Trainer Kit, BJT 547, Digital Multimeter
	Design and simulate of voltage divider biasing circuits using JFET-CS configuration.	Microlab Trainer Kit, FET BFW10, Digital Multimeter
	Design and simulate of Self-biasing circuits of MOSFET.	Microlab Trainer Kit, MOSFET 2N7000, Digital Multimeter
	Determine the frequency response of BJT CE- amplifier: low frequency, Mid-frequency and high frequency response.	Microlab Trainer Kit, Function Generator, DSO, Digital Multimeter, BJT 547
	Determine the frequency response of JFET CS- amplifier Circuit.	Microlab Trainer Kit, Function Generator, DSO, Digital Multimeter, FET BFW10
	Design of Binary Multiplier.	Microlab Trainer Kit, IC 7408, 7486
	Design and implementation of code converters gray to binary and BCD to seven segment display.	Microlab Trainer Kit, IC 7486, 7447, LT542(Display Device)

	Design and implementation of a function using Multiplexer (MUX) and De-multiplexer (DEMUX).	Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411
	Design of function using decoder and encoders.	Microlab Trainer Kit, IC 74138, 7408,7404,7432
	Flip-Flop: assemble, test and investigate operations of S-R, D and J-K flip-flops.	Microlab Trainer Kit, IC 7400, 7476,7474.
SIGNALS AND SYSTEMS LABORATORY (EOPC2203)	Introduction to MATLAB and its basic toolboxes required for the analysis of signals and systems. To study use variables, vectors, Matrices & its functions in MATLAB. To Perform basic operations such as addition, subtraction, multiplication, division and transpose of vector and Matrix and plot its results.	PC with windows (XP/ 98/2000), MATLAB 7,
	Generation of basic continuous-time periodic signals, i.e., sine, cosine, square, etc. and plot its results in MATLAB.	PC with windows (XP/ 98/2000), MATLAB 7
	Generation of basic continuous-time aperiodic signals, i.e., ramp, exponential, rectangular pulse, step, impulse, etc. and plot its results in MATLAB.	PC with windows (XP/ 98/2000), MATLAB 7
	Computation of convolution of discrete-time periodic signals in MATLAB using program logic and inbuilt function.	PC with windows (XP/ 98/2000), MATLAB 7
	Computation of convolution of discrete-time aperiodic signals in MATLAB using program logic and inbuilt function.	PC with windows (XP/ 98/2000), MATLAB 7
	Computation of auto correlation of sequence x(n) and y(n) verify the property in MATLAB.	PC with windows (XP/ 98/2000), MATLAB 7
	Computation of Cross correlation of sequence x(n) and y(n) verify the property in MATLAB.	PC with windows (XP/ 98/2000), MATLAB 7
	Generation of frequency response of an LTI system from its impulse response in MATLAB.	PC with windows (XP/ 98/2000), MATLAB 7
	Implementation of a difference equation in MATLAB.	PC with windows (XP/ 98/2000), MATLAB 7
	Computation of discrete-time Fourier transform (DTFT) of fundamental signals in MATLAB.	PC with windows (XP/ 98/2000), MATLAB 7
ELECTRICAL MEASUREMENT& INSTRUMENTATION LAB (EEPC 2204)	To measure strain developed in a cantilever beam using strain gauge.	Strain measurement module (ITB-17CE), Patch chords, Weights.
	Study of temperature voltage characteristics of J type thermocouple.	Thermocouple Trainer kit, Thermocouple, Thermometer Water heater, Multimeter Connecting leads.
	Measurement of linear displacement using LVDT.	LVDT kit, Multimeter
	Measurement of unknown resistance by Wheatstone Bridge.	Trainer kit, patch chords, decade resistance box.
	Measurement of unknown inductance by Maxwell Inductance Bridge.	VMIB-03 / maxwell bridge trainer-03 (STBT-410), unknown inductance, multimeter, connecting leads.
	Measurement of unknown capacitance using De-sauty's Bridge.	Trainer kit, connecting wires, head phone.
	Measurement of unknown resistance using Kelvin's Double Bridge.	Kelvin's Double Bridge trainer kit, super sensitive galvanometer, battery eliminator, copper wire.
	Measurement of unknown capacitance using Schering Bridge.	Schering bridge trainer kit (STBT-409), patch chords, probes, multimeter.
	Measurement of unknown inductance Anderson Bridge.	Anderson Bridge trainer kit, wires, headphone.

MECHANICAL ENGINEERING

BASIC MANUFACTURING PROCESS (BMP)/ WORKSHOP	Determination of grain size.	Working
	Determination of clay content, and permeability.	Working
	Preparation of pattern and foundry practices.	Working
	Practice and preparation of jobs through arc welding.	Working
	Practice and preparation of jobs through oxyacetylene welding.	Working
	Determination of strength of brazed and solder joints	Not-working
	Practice and preparation of jobs using sheet metal forming processes like forming and deep drawing.	Not-working
	Demonstration of different rolling mills.	Working
	Demonstration of Extrusion processes.	Working

Name of the Laboratory	List of Experimental Setup in each Laboratory / Workshop	
DESIGN OF MACHINE ELEMENTS LAB	Design of Riveted Joint	
	Design of Welded Joint.	
	Design of Cotter Joint.	
	Design of Knuckle Joint.	
	Design of Shaft.	
	Design of Flexible Coupling.	
	Design of Rigid Coupling.	
	Design of Helical Spring.	
	Design of Journal Bearing.	
	Design of Elements of Roller Bearing.	
	Design of Flange Coupling.	
	Design Of Roller Bearing.	

Name of the Laboratory	List of Experimental Setup in each Laboratory / Workshop	
FLUID MECHANICS &FLUID MACHINERY	Calibration of venturimeter	Working
	Verification of Bernoulli's theorem	Working
	Performance test on centrifugal pumps	Working
	Performance test on reciprocating pumps	Working
	Determination of pipe flow losses.	Virtual Testing
	Pressure measurement with pitot static tube	Virtual Testing
	Flow visualization by Heleshaw apparatus	Virtual Testing
	Determination of Viscosity of a Fluid	Virtual Testing

Name of the Laboratory	List of Experimental Setup in each Laboratory / Workshop	
HEAT TRANSFER LAB (RME5C2003)	Determination of Thermal conductivity of composite slab	Working
	Determination of heat transfer coefficient in natural/forced convention	Not Working
	Determination of surface emissivity	Working
	Performance test on parallel flow and counter flow heat exchanger	Working
	Efficiency and effectiveness of fins (Natural / Forced convection)	Working
	Determination of Critical heat flux during boiling heat transfer.	Not Working
	Verification of Stefan Boltzman's law.	Working

Name of the Laboratory	List of Experimental Setup in each Laboratory / Workshop	
MACHINE DRAWING AND SOLID MODELLING LAB	Sketcher workbench	Virtual
	Basic Solid part modelling	Virtual
	Advance Solid Part Modeling	Virtual
	Assembly design	Virtual
	Drafting workbench	Virtual

Name of the Laboratory	List of Experimental Setup in each Laboratory / Workshop	
MACHINES AND MECHANISMS LAB (MEPC2207)	Determination of gyroscopic couple using gyroscopic test rig	Not Working
	Experiment on static and dynamic balancing apparatus	Working
	Experiment on Screw Jack	Working
	Determination of Moment of Inertia of a Fly Wheel	Working

Name of the Laboratory	List of Experimental Setup in each Laboratory / Workshop	
MM LABORATORY	Design of any one working model related to Kinematics & Dynamics of Machines, Module I &II.	Virtual Testing
	Design of any one working model related to Kinematics & Dynamics of Machines, Module III,IV& V.	Virtual Testing
	Study of interference and undercutting for gear drives.	Virtual Testing
	Determination of Moment of Inertia of a fly wheel.	Working
	Performance characteristics of a spring loaded governor.	Virtual Testing
	Experiment/Study on clutches.	Virtual Testing
	Experiment on static and dynamic balancing apparatus.	Working
	Experiment/Study on Screw Jack.	Working

Name of the Laboratory	List of Experimental Setup in each Laboratory / Workshop	
MST LABORATORY	Job on lathe with tapper turning, thread cutting, knurling and groove cutting (3 experiments).	Working
	Gear cutting (with index head) on milling machine	Working
	Working with shaper, Planner and slotting machine.	Working
	Working with surface and cylindrical grinding. (Only surface grinding)	Working
	Determination of cutting force using Lathe tool dynamometer.	Working
	Determination of cutting force in drilling using drill tool dynamometer.	Working
	Study of Non-traditional machining processes.(USM, AJM, EDM, ECM)	Virtual Testing

Name of the Laboratory	List of Experimental Setup in each Laboratory / Workshop	
MATERIAL TESTING LAB	Tensile Strength of materials by Universal Testing Machine	Working
	Compressive Strength of materials by Universal Testing Machine	Working
	Bending Strength of materials by Universal Testing Machine	Working
	Shear Test in Universal Testing Machine	Working
	Rigidity Modulus of material	Working
	Fatigue Strength of material	Working
	Spring Constant under Tension And Compression	Working
	Load measurement using load indicator, Load Cells	Virtual Testing
	Strain measurement using strain gauge	Working
	Stress measurement using strain rosette	Working

Name of the Laboratory	List of Experimental Setup in each Laboratory / Workshop	
THERMAL ENGINEERING LAB	Study of Cut-Sections of 2 stroke and 4 stroke Diesel Engine/Petrol engine.	Working
	Study of steam power plant.	Virtual Testing
	Study of refrigeration system.	Working
	Study of gas turbine power plant.	Virtual Testing
	Performance analysis of reciprocating air-compressor.	Working
	Performance analysis of Centrifugal / Axial Flow compressor.	Virtual Testing
	Determination of performance characteristics of gear pump.	Virtual Testing
	Load test on 4-stroke single cylinder C.I. engine.	Working
	Load test on 4-stroke single cylinder S.I. engine.	Virtual Testing
	Morse Test on multi-cylinder S.I. or C.I. engine	Virtual Testing

CIVIL ENGINEERING

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
BUILDING DRAWING PRACTICE	Understanding drawing requirements and symbols in building drawing as per IS 962:1967
	Detailing of different building components: footing, masonry, stair case, and arches, etc
	Development of plan, elevation, side view of 2/3 bed room residential/office building.
	Detailing RCC beams, columns and slabs, and preparing bar bending schedule.
	Detailing of steel roof trusses and connections.
	Any live project on drawing and detailing of Residential/Institutional building.

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
COMPUTER AIDED DESIGN	Introduction to MATLAB and Excel
	Plotting of Shear force and bending moment diagram of beam using MATLAB
	Drawing of Shear force and bending moment diagram of frames using MATLAB
	Plotting of Shear force and bending moment diagram of arches using MATLAB
	Calculation and plotting of ILDsof beam using MATLAB
	Calculation and plotting of ILDs of frames using MATLAB
	Calculation and plotting of ILDs of arches using MATLAB
	Plotting of stress contours using MATLAB
	Introduction to Graphic Software: Basic commands, plotting of graphs and data analysis.

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
GEOTECHNICAL ENGINEERING LABORATORY	Determination of specific gravity of soil grains
	Determination of grain size distribution of soil: (a) sieve analysis; (b) Hydrometer/pipette test
	Determination of Atterberg limits of soil: (a) liquid limit, (b) plastic limit, (c) shrinkage limit
	Measurement of unit weight of soil in the field: (a) Core cutter method, (b) Sand replacement method
	Determination of Density-water content relationship of soil: Proctor compaction tests
	Determination of relative density of granular soil
	Determination of shear strength of soil: (a) Direct shear test (b) Tri-axial shear test, (c)Unconfined compression test (d) Vane shear test
	Determination of consolidation characteristics of soil using fixed ring Oedometer
	Determination of California Bearing Ratio (CBR) of soaked and un-soaked soil samples
	Determination of coefficient of permeability of soil: (a) Constant head Permeameter (b) Falling Head Permeameter

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
MATERIAL TESTING LABORATORY	Determination of Fineness modulus by sieve analysis and/or by air permeability method
	standard consistency
	setting times, soundness, specific gravity, compressive strength
	Sieve analysis of fine aggregate and coarse aggregates for determination of fineness modulus and grain size distribution
	determination of water absorption and specific gravity of fine aggregate and coarse aggregates
	bulking of sand, crushing value of coarse aggregates
	Tensile strength of mild steel and HYSD Bars
	Determination of shape, size and Water absorption of Bricks
	Compressive strength, flexural strength and split tensile strength of concrete

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
SURVEY FIELD WORK	Testing of chain and measurement of correct length of the line and chain traversing
	Traversing by Compass
	Horizontal and vertical angle measurement by theodolite
	Traversing by theodolite
	Use of dumpy level and automatic level for fly levelling.
	Contouring of an area
	Measurement of distance, horizontal and vertical angle by Total Station
	Contouring by Total Station

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
WATER SUPPLY & SANITARY ENGINEERING LABORATORY	Determination of Taste, Odour and Colour of water/wastewater sample
	Determination of pH, Temperature, E. Conductivity and D.O. of water/wastewater sample
	Determination of TS, TDS and SS of water/wastewater sample
	Determination of hardness & alkalinity of water sample
	Determination of Turbidity and $SO_4^{-2}$of water sample
	Determination of Ca^{+2}, Na^{+} and K^{+} of water sample
	Determination of residual chlorine and Cl^{-} of water sample
	Determination of BOD of water/wastewater sample
	Determination of COD of water/wastewater sample
	Microbiological analysis of water/wastewater sample

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
DESIGN OF CONCRETE STRUCTURES LAB	Workability test of concrete:Slump test, compaction factor test and flow table test
	2. Cube Test of Concrete (Nominal Mix)
	3. Cylinder Test for Concrete (Nominal Mix): Determination of axial stress, longitudinal strain, lateral strain and Poision's ratio. Plotting of stress-strain curve and determination of modulus of elasticity.
	Split Tensile Strength Test of Concrete
	5. Prism test for determining modulus of rupture of concrete
	6. Design of Concrete Mix (As per Indian Standard Method)
	7. Failure of RC beam in bending and shear (two point and one point loading)
	8.Complete design of a simple load bearing residential building comprising of beams, slab,

Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
STEEL STRUCTURES LAB	Design and detailing of steel roof trusses/ industrial buildings
	Design of columns (with lacing and battening) and column bases
	Design of plate girders and gantry girder
	Detailing of structural steel connections, seated and framed connections

Seemanta Engineering College

Estd. 1997

An ISO Certified Institution, Approved by AICTE, DTET & Affiliated to BPUT and SCTE & VT, Odisha

Letter No. SEC/240/26 Date 21/01/2026

Incubation and Innovation Cell (IIC Cell)

Members of IIC Cell

Chairperson	Prof. (Dr.) Binod Kumar Prusty, Principal		
Coordinator of the IIC	Dr. Jyotiprava Mohanta, Associate Professor, Dept of ETC		
Teacher's Representatives	**Name of Teacher**	**Designation**	**Department**
	Ms Subasmita Pani	Assistant Professor	CSE
	Mr. Ankit Mohanta	Assistant Professor	ME
	Mrs. Dipanwita Sahu	Assistant Professor	ETC
	Dr. Asit Kumar Patra	Associate Professor	EE
	Dr. Deepak Kumar Maharana	Assistant Professor	EEE
	Ms. Sulagna Das	Assistant Professor	CE
	Dr. Bishwamitra Rana	Assistant Professor	MCA
Member(s) of Management	Sri A.K.Dwari, Governing Body		
Alumni Coordinator	Rtn. Er. Saumyaranjan Mishra, Serial Entrepreneur, Startup Mentor		
Industry Expert / Associate Representative	Rtn. Niroj Kumar Panda, President, Mayurbhanj Chamber of Commerce and Industry		
Representative from the nearby IIC Centre	Prof. (Dr.) M. Hima Bindu, Director, IIC, MSCB University, Baripada		
Student Representative	**Girls**	Ms Dibyarati Basuri, 2nd Year, Dept of CSE	
	Boys	Mr Mahammad Modassir, 2nd Year, Dept of ETC	

31/1/26

Signature

Principal, Seemanta Engineering College

COPY TO: Finance member(s), Dean (Academic), HOD(s), Establishment Section, Academic Section, SIC, forwarded to all persons concerned for information and necessary action

Campus : Mayurvihar, Jharpokharia, Mayurbhanj, Odisha, India-757086 | **City Office :** Baripada, Mayurbhanj

principal@seemantaengg.ac.in | 7381244960 , 9437035120 | www.seemantaengg.ac.in

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Letter No. SEC/1268/25 Date 20/09/2025

MEDIA CELL

Seemanta Engineering College, Jharpokharia, Mayurbhanj, Odisha - 757086 has a Media Cell for handling PR activities of the college. The Cell manages the media relations of the institute and keeps the media updated with the happenings at the institute. This primarily involves covering various events of the college, writing press releases, taking photographs and ensuring that each and every event of the college gets its due media coverage. The Cell provides content for periodic updating of the college website. Also the official Facebook page of college is managed by this cell.

Working Committee

Sl. No.	Name of the Members	Designation / Department	Role
1	Prof.(Dr.) Prasanta Nayak	Principal	Chairperson
2	Prof.(Dr.) A.K.Sahu	Dean, Academic	Member
3	Prof.(Dr.) S.D.Kalia	HOD, Humanities	Member
4	Mr. Ananda Sankar Mohapatra	Associate Professor, Management.	Member
5	Mrs. Sarojini Sethi	Associate Professor, ETC Engg.	Member

20/09/25
Principal
SEC, Mayurbhanj, Jharpokharia

Principal
Seemanta Engg. College
Jharpokharia, Mbj.

Seemanta Engineering College
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Letter No. SEC/1682/25 Date 08/12/2025

A Compliance Report on
National Academic Depository (NAD)

This is to certify that Seemanta Engineering College, Jharpokharia, Mayurbhanj, Odisha – 757086 is affiliated to Biju Patnaik University of Technology, Rourkela, Odisha. The institute functions as per the directives of the University. The University is the examining body and issuing authority of awards and certificates to the students in which an affiliated institute has no role to play.

Therefore the institute is no way authorized to undertake the digitization work of academic awards viz. certificates, diplomas, degrees, mark-sheets etc. although it desires so, as it would greatly facilitate the students, institutes and other agencies to access the stored digital data under one depository "DigiLocker" without any hassles.

08/12/25

Principal

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

Campus : Mayurvihar, Jharpokharia, Mayurbhanj, Odisha, India-757086 | City Office : Baripada, Mayurbhanj
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ANNEXURE –22

Enrolment and placement details of students in the last 3years

Academic Year: 2023-24

Sl. No.	Discipline	Students Enrolment	Number of Students selected for Placement	Name of Organization/Company	Package
1	Civil Engineering	34	2	Trigeo pvt Ltd , Bangalore	1.8 lakhs to 3.2 lakhs
2	Computer Science & Engineering	51	4	Q-Spiders, Bhubaneswar	2 lakhs to 3.6 lakhs
3	Mechanical Engineering	47	5	Polybond India Limited, Pune	1.8 lakhs to 3.2 lakhs
4	Electrical Engineering	8			
5	Electronics & Telecommunication Engineering	10	3	Polybond India Limited, Pune	1.8 lakhs to 3.2 lakhs
6	Electrical & Electronics Engineering	8	2	Polybond India Limited, Pune	1.8 lakhs to 3.2 lakhs
7	MCA		1	Q-Spiders, Bhubaneswar	2 lakhs to 3.6 lakhs
8	Electrical Engineering (M.Tech)				
9	Mechanical Engineering (M.Tech)				
10	Electrical Engineering (Diploma)	50	7	Hitachi Astemo Gurugram Powertrain Syatem Pvt. Ltd	1.78Lakhs to 2.2 Lakhs
11	Mechanical Engineering (Diploma)	42	25	Panse, Hitachi Astemo Gurugram Powertrain Syatem Pvt. Ltd	1.78Lakhs to 2.2 Lakhs
12	Civil Engineering (Diploma)				

Academic Year: 2024-25

Sl. No.	Discipline	Students Enrolment	Number of Students selected for Placement	Name of Organization/Company	Package
1	Civil Engineering				
2	Computer Science & Engineering				
3	Mechanical Engineering	47	24	MRF Tyre, Flash Electronics	2.4Lakhs to3.4Lakhs per Annum
4	Electrical Engineering	8	4	Qspiders , Bangalore PANSE , Pune	2.4Lakhs to3.4Lakhs per Annum
5	Electronics & Telecommunication Engineering	10	3	Qspiders , Bangalore PANSE , Pune	2.4Lakhs to3.4Lakhs per Annum
6	Electrical & Electronics Engineering	8	2	Qspiders , Bangalore PANSE , Pune	2.4Lakhs to3.4Lakhs per Annum
7	MCA				
8	Electrical Engineering (M.Tech)				
9	Mechanical Engineering (M.Tech)				
10	Electrical Engineering (Diploma)	50	21	MRF Tyre, Flash Electronics	1.8 lakhs to 2.6 lakhs
11	Mechanical Engineering (Diploma)	42	18	MRF Tyre, Flash Electronics	1.8 lakhs to 2.6 lakhs
12	Civil Engineering (Diploma)	45	2	MRF Tyre, Flash Electronics	1.8 lakhs to 2.6 lakhs

Academic Year: 2025-26

Sl. No.	Discipline	Students Enrolment	Number of Students selected for Placement	Name of Organization/Company	Package
1	Civil Engineering				
2	Computer Science & Engineering	12	05	1. Machino Plastics Ltd., Gujrat	3.02 Lakhs per Annum
3	Mechanical Engineering	28	22	1. Sigma Engineered Solutions, Pune 2. Machino Plastics Ltd., Gujrat	3.02 Lakhs per Annum
4	Electrical Engineering	12	08	1. Sigma Engineered Solutions, Pune 2. Machino Plastics Ltd., Gujrat	3.02 Lakhs per Annum
5	Electronics & Telecommunication Engineering	03	02	1. Sigma Engineered Solutions, Pune 2. Machino Plastics Ltd., Gujrat	3.02 Lakhs per Annum
6	Electrical & Electronics Engineering	05	03	1. Machino Plastics Ltd., Gujrat	3.02 Lakhs per Annum
7	MCA				
8	Electrical Engineering (M.Tech)				
9	Mechanical Engineering (M.Tech)				
10	Electrical Engineering (Diploma)	08	05	Sigma Engineered Solutions, Pune	2.65 Lakhs per Annum
11	Mechanical Engineering (Diploma)	27	19	Sigma Engineered Solutions, Pune	2.65 Lakhs per Annum
12	Civil Engineering (Diploma)				

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

Seemanta
Engineering College

&

Prshni E Care Limited

FOR

SKILL DEVELOPMENT, OUTCOME BASED TRAININGS, PLACEMENT,
R&D SERVICES AND RELATED SERVICES

MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (hereinafter called as the 'MoU') is entered into on this the 16th day of February Two Thousand and Nineteen (16/02/2019), by and between

Seemanta Engineering College, Mayur Vihar, Jharpokharia, Mayurbhanj, Odisha, Pin – 757086, the First Party represented herein by its **Principal, Prof.(Dr.) Manas Ranjan Pani, aged about 46 yrs, S/o- Late Shirish Chandra Pani of Ward No.-18, Jail Road , Bhanjpur, Baripada, Mayurbhanj-757002** (hereinafter referred as **'First Party'**, the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

AND

Prshni E Care Ltd,Station Bazar,Baripada,Mayurbhanj,Odisha,757001, the Second Party, and represented herein by its Director, **Malaya Rout**, aged about 34 yrs S/O- Madhusudan Rout of Unit 5,Bhubaneswar,Odisha- 751001, (hereinafter referred to as "**Second Party**", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

WHEREAS:

A) First Party is a Higher Educational Institution named:
Seemanta Engineering College, Mayurbhanj

B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.

D) Both Parties, being legal entities in themselves desire to sign this MoU for advancing their mutual interests.

E) **Prshni E Care Ltd.** the Second Party is engaged in Business, Manufacturing, Skill Development, Education and R&D Services in the fields of *Manufacturing Technology* and related fields

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MoU, THE PARTIES HERE TO AGREE AS FOLLOWS:

CLAUSE 1
CO-OPERATION

1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the **Institution** and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.

1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party.

1.3 The general terms of co-operation shall be governed by this MoU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MoU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MoU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

CLAUSE 2
SCOPE OF THE MoU

2.1 The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.

2.2 **Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.

2.3 **Industrial Training & Visits:** Industry and Institution interaction will give an insight in to the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.

2.4 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of software development.

2.5 **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.

2.6 **Guest Lectures:** Second Party to extend the necessary support to deliver guest lectures to the students of the First Party on the technology trends and in house requirements.

2.7 **Faculty Development Programs:** Second Party to train the Faculties of First Party for imparting training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.

2.8 **Placement of Trained Students:** Second Party will actively engage to help the delivery of the training and placement of students of the First Party into internships/jobs.

2.9 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programmes on the terms specified herein

2.10 There is no financial commitment on the part of the **Seemanta Engineering College**, the First Party to take up any programme mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

CLAUSE 3
INTELLECTUAL PROPERTY

3.1 Nothing contained in this MoU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

CLAUSE 4
VALIDITY

4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period **Prshni E Care Ltd**, the Second Party, as the case may be, will take effective steps for implementation of this MoU. Any act on the part of **Prshni E Care Ltd**, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MoU

4.2 Both Parties may terminate this MoU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

CLAUSE 5
RELATIONSHIP BETWEEN THE PARTIES

5.1 It is expressly agreed that **First Party** and **Second Party** are acting under this MoU as independent contractors, and the relationship established under this MoU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MoU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

First Party Second Party

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of **Baripada.**

AGREED:

For **Seemanta Engineering College** For **Prshni E Care Ltd**

Authorized Signatory Authorized Signatory

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

Seemanta Engineering College	**Prshni E Care Ltd**
Mayur Vihar, Jharpokharia, Mayurbghanj-757086	Station Bazar,Baripada- 757001
7381244960	9040076101
E-mails: principal@seemantaengg.ac.in	E-mails: prshniecareltd@gmail.com
Web: seemantaengg.ac.in	Web: prshni.in

Witness 1: Witness 2:

Witness 3: Witness 4:

MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (hereinafter called as the 'MoU') is entered into on this the 16th day of February Two Thousand and Nineteen (16/02/2019), by and between

Seemanta Engineering College, Mayur Vihar, Jharpokharia, Mayurbhanj, Odisha, Pin – 757086, the First Party represented herein by its **Principal, Prof.(Dr.) Manas Ranjan Pani, aged about 46 yrs, S/o- Late Shirish Chandra Pani of Ward No.-18, Jail Road , Bhanjpur, Baripada, Mayurbhanj-757002** (hereinafter referred as **'First Party'**, the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

AND

Allay Software Solutions, Plot No. B-140, 1st Floor, HIG Duplex, BDA, Baramunda, PS-Khandagiri, Bhaubaneswar, Dist- Khurda, Odisha, Pin.- 751003, the Second Party, and represented herein by its **Head, Chitta Ranjan Sahu**, aged about 48 yrs S/O- Bipin Bihari Sahu of 6B, 6th Floor, Metro Mansion Apartment, Rabi talkies Square, Bhubaneswar, Odisha-751002, (hereinafter referred to as "**Second Party**", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

WHEREAS:

A) First Party is a Higher Educational Institution named:
Seemanta Engineering College, Mayurbhanj

B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.

D) Both Parties, being legal entities in themselves desire to sign this MoU for advancing their mutual interests.

E) **Allay Software Solutions**, the Second Party is engaged in Business, Manufacturing, Skill Development, Education and R&D Services in the fields of ***Information Technology*** and related fields

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MoU, THE PARTIES HERE TO AGREE AS FOLLOWS:

SEEMANTA ENGINEERING COLLEGE ESTD:1997 201 JHARPOKHARIA, MBJ.

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

Chitta Ranjan Sahu

Bhubaneswar Allay Software Solutions

CLAUSE 1
CO-OPERATION

1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the **Institution** and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.

1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party.

1.3 The general terms of co-operation shall be governed by this MoU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MoU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MoU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

CLAUSE 2
SCOPE OF THE MoU

2.1 The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.

2.2 **Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.

2.3 **Industrial Training & Visits:** Industry and Institution interaction will give an insight in to the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.

SEEMANTA ENGINEERING COLLEGE ESTD:1997 201 JHARPOKHARIA, MBJ.

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

Chitta Ranjan Sahoo

Allay Software Solutions Bhubaneswar

2.4 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of software development.

2.5 **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.

2.6 **Guest Lectures:** Second Party to extend the necessary support to deliver guest lectures to the students of the First Party on the technology trends and in house requirements.

2.7 **Faculty Development Programs:** Second Party to train the Faculties of First Party for imparting training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.

2.8 **Placement of Trained Students:** Second Party will actively engage to help the delivery of the training and placement of students of the First Party into internships/jobs.

2.9 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programmes on the terms specified herein

2.10 There is no financial commitment on the part of the **Seemanta Engineering College**, the First Party to take up any programme mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

CLAUSE 3
INTELLECTUAL PROPERTY

3.1 Nothing contained in this MoU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

CLAUSE 4
VALIDITY

4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period **Allay Software Solutions**, the Second Party, as the case may be, will take effective steps for implementation of this MoU. Any act on the part of **Allay Software Solutions**, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MoU

4.2 Both Parties may terminate this MoU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

SEEMANTA ENGINEERING COLLEGE ESTD:1997 201 JHARPOKHARIA, M.B.J.

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

ALLAY SOFTWARE SOLUTIONS Bhubaneswar

CLAUSE 5
RELATIONSHIP BETWEEN THE PARTIES

5.1 It is expressly agreed that **First Party** and **Second Party** are acting under this MoU as independent contractors, and the relationship established under this MoU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MoU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

First Party

Second Party

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of **Baripada.**

AGREED:

SEEMANTA ENGINEERING COLLEGE ESTD:1997 201 JHARPOKHARIA, MBJ.

For **Seemanta Engineering College**

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

Authorized Signatory

For **Allay Software Solutions**

Chitta Ranjan Sahu

Authorized Signatory

ALLAY SOFTWARE Solutions Bhubaneswar

Seemanta Engineering College	**Allay Software Solutions**
Mayur Vihar, Jharpokharia, Mayurbhanj-757086	Plot No. B-140, 1st Floor, HIG Duplex, BDA, Baramunda, PS-Khandagiri, Bhaubaneswar, Dist- Khurda, Odisha, Pin.- 751003
7381244960	0674-2354859
E-mails: principal@seemantaengg.ac.in	E-mails: allay@allaysoft.com
Web: seemantaengg.ac.in	Web: allaysoft.com

Witness 1: Agnibrata Mahalik

Witness 2: Bhalcandra Chandra Sahu

Witness 3: Debasish Behera

Witness 4: Chittaranjan Mohanty

PANDA MOTORS
Authorised Service Station

TATA MOTORS
GSTIN - 21AELPP6063R1ZV

From
Panda Motors
Baripada

To
The Principal
Seemanta Engineering College
Jharpokharia, Mayurbhanj

Sub- Consent letter to importing training of student under skill development scheme for the year 2018-19

Dear Sir,

Vide your letter No –SEC/343(7)/18, Dt-28-03-2018. We like to extant our consent for the above noted period to impart training for students under skill development scheme.

Thanking you
Yours faithfully

M/s. PANDA MOTORS
12/04/2018
Proprietor

Sanjit Kumar Panda
Proprietor Panda Motors

NH-18, Bhuyudakata, Muruguhadi, Baripada, Mayurbhanj, Ph. 06792-260162, Email- pandamotors2012@gmail.com

HONDA

Letter No. 009/2018-2019 6th April 2018

Letter of Intent (LOI)

To,
Principal,
Seemanta Engineering College,
Mayurbhanj, Jharpokharia.

From
M/s. Sun Honda
Baripada, Mayurbhanj

Sub: Expression of Interest for providing practical training to students.

Dear Sir,

With reference to your letter no. SEC/343(7) /18 dated 28th March 2018, we are hereby expressing our interest to provide practical training to the students related to Automobiles Service for the session 2018-19. We are extending our willingness for the MOU.

Thanking you.

Yours sincerely,
SUN AUTOMOBILES
Anesh Agarwal
Proprietor
M/s. Sun Honda
Baripada, Mayurbhanj

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

Seemanta
Engineering College

&

TechLand Systems Pvt. Ltd.
Uniting Resources Of All Lands, Enabling Technology.
(An ISO 9001:2015 Certified Company)

FOR

SKILL DEVELOPMENT, OUTCOME BASED TRAININGS, PLACEMENT,
R&D SERVICES AND RELATED SERVICES

For TECHLAND SYSTEMS PVT. LTD.

DIRECTOR

M/S. TECHLAND SYSTEMS PVT. LTD. HYD

MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (hereinafter called as the 'MoU') is entered into on this the 16th day of February Two Thousand and Nineteen (16/02/2019), by and between

Seemanta Engineering College, Mayur Vihar, Jharpokharia, Mayurbhanj, Odisha, Pin – 757086, the First Party represented herein by its **Principal, Prof.(Dr.) Manas Ranjan Pani, aged about 46 yrs, S/o- Late Shirish Chandra Pani of Ward No.-18, Jail Road , Bhanjpur, Baripada, Mayurbhanj-757002** (hereinafter referred as **'First Party'**, the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

AND

Tech Land Systems Pvt. Ltd., Plot No- 37A & B2, Varun Plaza, Kushaiguda Industrial Area, EC Ext, Hyderabad- 500062, the Second Party, and represented herein by its **Head, Pradeep Kumar Ray**, aged about 39 yrs S/O- Lokanath Ray of Flat No- 204, Sri Sai Apatments, Kamala Nagar, ECIL Post, Hyderabad-500062 (hereinafter referred to as **"Second Party"**, company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

WHEREAS:

A) First Party is a Higher Educational Institution named:
Seemanta Engineering College, Mayurbhanj

B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.

D) Both Parties, being legal entities in themselves desire to sign this MoU for advancing their mutual interests.

E) **Tech Land Systems Pvt. Ltd**, the Second Party is engaged in Business, Manufacturing, Skill Development, Education and R&D Services in the fields of ***Energy management services*** and related fields

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MoU, THE PARTIES HERE TO AGREE AS FOLLOWS:

SEEMANTA ENGINEERING COLLEGE * JHARPOKHARIA, MBJ * ESTD:1997 201

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

For TECHLAND SYSTEMS PVT. LTD.

DIRECTOR

CLAUSE 1
CO-OPERATION

1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the **Institution** and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.

1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party.

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CLAUSE 2
SCOPE OF THE MoU

2.1 The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.

2.2 **Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.

2.3 **Industrial Training & Visits:** Industry and Institution interaction will give an insight in to the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.

SEEMANTA ENGINEERING COLLEGE ESTD:1997 201 JHARPOKHARIA, MBJ.

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

For TECHLAND SYSTEMS PVT. LTD.

DIRECTOR

2.4 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of software development.

2.5 **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.

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2.9 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programmes on the terms specified herein

2.10 There is no financial commitment on the part of the **Seemanta Engineering College,** the First Party to take up any programme mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

CLAUSE 3
INTELLECTUAL PROPERTY

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CLAUSE 4
VALIDITY

4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period **Tech Land Systems Pvt. Ltd.**, the Second Party, as the case may be, will take effective steps for implementation of this MoU. Any act on the part of **Tech Land Systems Pvt. Ltd.**, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MoU

4.2 Both Parties may terminate this MoU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

SEEMANTA ENGINEERING COLLEGE * JHARPOKHARIA, MBJ. * ESTD:1997 201

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

For TECHLAND SYSTEMS PVT. LTD.

M/S. TECHLAND SYSTEMS PVT. LTD. HYD

DIRECTOR

CLAUSE 5
RELATIONSHIP BETWEEN THE PARTIES

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AGREED:

For **Seemanta Engineering College**

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

Authorized Signatory

For TECHLAND SYSTEMS PVT. LTD.

For **Tech Land Systems Pvt. Ltd.**

Authorized Signatory

Seemanta Engineering College	**Tech Land Systems Pvt. Ltd.**
Mayur Vihar, Jharpokharia, Mayurbhanj-757086	Plot No- 37A & B2, Varun Plaza, Kushaiguda Industrial Area, EC Ext, Hyderabad- 500062
7381244960	8978000032
E-mails: principal@seemantaengg.ac.in	E-mails: pk@techlandsys.com
Web: seemantaengg.ac.in	Web: techlandsys.com

Witness 1: Chittaranjan Mohanta Witness 2: Bishnu Charan Das

Witness 3: Pravas Kumar Senapati Witness 4: Gobinda Jena

MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (hereinafter called as the 'MoU') is entered into on this the 16th day of February Two Thousand and Nineteen (16/02/2019), by and between

Seemanta Engineering College, Mayur Vihar, Jharpokharia, Mayurbhanj, Odisha, Pin – 757086, the First Party represented herein by its **Principal, Prof.(Dr.) Manas Ranjan Pani, aged about 46 yrs, S/o- Late Shirish Chandra Pani of Ward No.-18, Jail Road , Bhanjpur, Baripada, Mayurbhanj-757002** (hereinafter referred as **'First Party'**, the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

AND

Glory Engineering Concern, Om Complex, Sastitala, Dankuni, Hooghly-711331, the Second Party, and represented herein by its Head, **Arijit Ghosh**, aged about 30 yrs S/O- Late Ashim Ghosh of Kashipur, Dasnagar, Near CTI, Howrah- 711105, (hereinafter referred to as "**Second Party**", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

WHEREAS:

A) First Party is a Higher Educational Institution named:
Seemanta Engineering College, Mayurbhanj

B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.

D) Both Parties, being legal entities in themselves desire to sign this MoU for advancing their mutual interests.

E) **Glory Engineering Concern**, the Second Party is engaged in Business, Manufacturing, Skill Development, Education and R&D Services in the fields of ***Manufacturing Technology*** and related fields

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MoU, THE PARTIES HERE TO AGREE AS FOLLOWS:

SEEMANTA ENGINEERING COLLEGE ESTD:1997 201 JHARPOKHARIA, MBJ

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

GLORY ENGINEERING CONCERN
Arijit Ghosh.
Proprietor

CLAUSE 1
CO-OPERATION

1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the **Institution** and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.

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SCOPE OF THE MoU

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SEEMANTA ENGINEERING COLLEGE ESTD:1997 201 JHARPOKHARIA

Principal
Seemanta Engineering College
Jharpokharia

GLORY ENGINEERING CONCERN
Arijit Ghosh.
Proprietor

2.4 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of software development.

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CLAUSE 4
VALIDITY

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4.2 Both Parties may terminate this MoU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

SEEMANTA ENGINEERING COLLEGE * ESTD:1997 201 * JHARPOKHARIA, MBJ.

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

GLORY ENGINEERING CONCERN
Arijit Ghosh
Proprietor

CLAUSE 5
RELATIONSHIP BETWEEN THE PARTIES

5.1 It is expressly agreed that **First Party** and **Second Party** are acting under this MoU as independent contractors, and the relationship established under this MoU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MoU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

First Party Second Party

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of **Baripada.**

AGREED:

SEEMANTA ENGINEERING COLLEGE ESTD:1997 201 JHARPOKHARIA, M.U.

For **Seemanta Engineering College**

Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia
Authorized Signatory

For **Glory Engineering Concern**

GLORY ENGINEERING CONCERN
Proprietor
Authorized Signatory

Seemanta Engineering College	**Glory Engineering Concern**
Mayur Vihar, Jharpokharia, Mayurbghanj-757086	Om Complex, Sastitala, Dankuni, Hooghly- 711331
7381244960	9051896005
E-mails: principal@seemantaengg.ac.in	E-mails: gloryenggconcern@gmail.com
Web: seemantaengg.ac.in	Web:

Witness 1: Srobendu Jena

Witness 2: Pravas Kumar Senapati

Witness 3: Rabindramohanta

Witness 4: Bhalchandra Chandra Sahu