MANDATORY DISCLOSURES

2024-25

Name of the Institution 1. : SEEMANTA ENGINEERING COLLEGE, MAYURBHANJ (Address including Telephone, Mobile, E-Mail) 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. PRASANTA NAYAK

PRINCIPAL

SEEMANTA ENGINEERING COLLEGE, MAYURBHANJ,

JHARPOKHARIA TEL: (06791) 222808 MOB: 7849068554

e-mail: principal@seemantaengg.ac.in

: BIJU PATTANAIK UNIVERSITY OF TECHNOLOGY, ROURKELA 4. Name of the affiliating University

5. Governance

: ANNEXURE-1 (a) Organizational chart (b) Grievance Redressal mechanism : YES, ANNEXURE-2

for Faculty, staff and students

(c) Establishment of Anti Ragging

Committee

: YES, ANNEXURE-3

(d) Establishment of Online : YES, ANNEXURE-4

Grievance Redressal Mechanism

(e) Details of Grievance Redressal : ANNEXURE-5

Committee in the Institution and OMBUDSMAN by the University

(f) Establishment of Internal

Committee (IC)

SC/ST

: YES, ANNEXURE-6

(g) Establishment of Committee for : YES, ANNEXURE-7

(h) Internal Quality Assurance Cell : YES, ANNEXURE-8 YES, ANNEXURE-9 Equal Opportunity facilities Cell.

Programmes

(a) Name of Programmes approved

by AICTE

B.TECH; M.TECH, MCA, DIPLOMA

Name of Programmes Accredited

by NBA

NA

(c) Status of Accreditation of the

Courses

NA

Total number of Courses

12

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

Name	Number of Seats	Duration	Fee	Placement Facilities
ELECTRONICS AND TELECOMMUNICATION ENGINEERING	60	4	As approved by the State Government	Yes
COMPUTER SCIENCE AND ENGINEERING	60	4	As approved by the State Government	Yes
ELECTRICAL ENGINEERING	60	4	As approved by the State Government	Yes
MECHANICAL ENGINEERING	120	4	As approved by the State Government	Yes
CIVIL ENGINEERING	60	4	As approved by the State Government	Yes
ELECTRICAL AND ELECTRONICS ENGINEERING	30	4	As approved by the State Government	Yes
ELECTRICAL ENGINEERING	18	2	As approved by the State Government	Yes
MECHANICAL ENGINEERING	18	2	As approved by the State Government	Yes
MASTERS IN COMPUTER APPLICATIONS	30	2	As approved by the State Government	Yes
CIVIL ENGINEERING (Diploma)	60	3	As approved by the State Government	Yes
MECHANICAL ENGINEERING (Diploma)	60	3	As approved by the State Government	Yes
ELECTRICAL ENGINEERING (Diploma)	60	3	As approved by the State Government	Yes

(f) Fee (as approved by the state government) : YesName and duration of Programme(s) having Twinning : No

(g) 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

1. Details of the Foreign University, if any NA 2. Name of the University NA 3. Address NA 4. Website NA NA 5. Accreditation status of the University in its Home Country NA 6. Ranking of the University in the Home Country NA 7. 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

(h) Nature of Collaboration : NA
 (i) Complete details of payment a student has to make to get the full benefit of Collaboration : NA

(j) For each Programme Collaborated provide the following
 (k) Programme Focus
 (l) Number of seats
 NA
 NA

(m) Admission Procedure : NA
 (n) Fee (as approved by the state government) : NA
 (o) Whether the Collaboration Programme is approved by AICTE? : NA
 If not whether the Domestic/ Foreign University has applied to AICTE for approval

7. Faculty

(a) Course/Branch wise list Faculty : ANNEXURE-10

members:

(b) Permanent Faculty : 81

(c) Adjunct Faculty :

(d) Permanent Faculty: Student Ratio : ANNEXURE-11

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

(a) Name : Dr. PRASANTA NAYAK

(b) Date of Birth : 31-12-1965 (c) Unique ID : 1-18342139

(d) Education Qualifications : M.E. Ph.D.(Engineering)

(e) Work Experience : 32 Years

(f) Teaching/ Research/ Industry/ Others : Teaching: 21 yrs, Research: 07 yrs, Industry: 11 yrs

NIL

: NIL

(g) Area of Specialization : MACHINE DESIGN

(h) Courses taught at Diploma/ Post : Under Graduate: Engineering Mechanics, Mechanics of Solids, Machine Diploma/ Under Graduate/ Post Graduate Diploma : Under Graduate: Engineering Mechanics of Solids, Machines Designs, Heat Transfer, Mechanical Vibrations, Structural Dynamics, etc.

Post Graduate: Theory of Plasticity.

(i) Research guidance (Number of : NIL

Students)

Level

(j) No. of papers published in : NIL

National/International Journals/Conferences

(o) Technology Transfer

 (k) Master (Completed/Ongoing)
 : Completed

 (l) Ph.D. (Completed/Ongoing)
 : Completed

 (m) Projects Carried out
 : NIL

 (n) Patents (Filed & Granted)
 : NIL

(p) Research Publications (No. of papers published in National/International

Journals/Conferences)

No. of Books published with details

(Name of the book, Publisher with ISBN, year of publication, etc.)

International Journals: 04 nos.

International Conferences: 01 no.
National Conferences: 01 no.

9. Fee : ANNEXURE-12

(a) No. of Fee waivers granted with amount and name of students

(b) Number of scholarship offered by the Institution, duration and

10. Admission

(a) Number of seats sanctioned with : EoA (2024-25) by AICTE; BPUT / Affl./4406/05-07-2024; ANNEXURE-13

the year of approval

amount

(b) Number of Students admitted : ANNEXURE-14

under various categories each year in the last three years

(c) Number of applications received during last year for admission

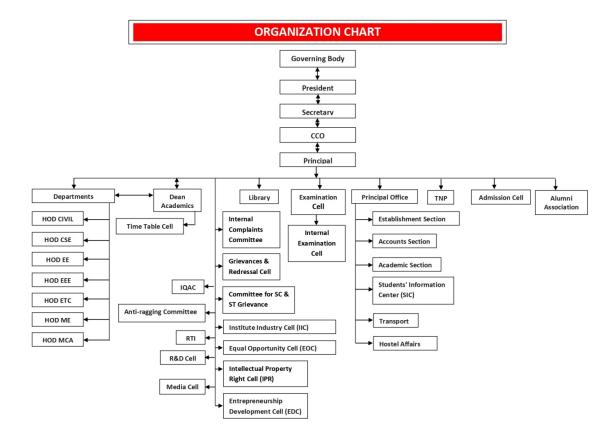
under Management Quota and number admitted

: NA

11.	Admission Procedure	:	Through JEE Main & OJEE examination
(a)	Mention the admission test being		Through JEE Main & OJEE examination
	followed, name and address of		
	the Test Agency/State Admission		
	Authorities and its URL (website)		
(b)	Number of Students admitted	:	
	under various categories each year		
	in the last three years		
(c)	Number of seats allotted to	:	
` ´	different Test Qualified candidate	-	
	separately (AIEEE//JEE/ CET		
	(State conducted test/ University		
	tests/ CMAT)/ Association		
	conducted test etc.)		
(d)	Calendar for admission against	:	
` '	Management quota seats	-	
(e)	Last date of request for	:	
(-/	applications		
(f)	Last date of submission of	:	
` ′	applications		
(g)	Dates for announcing final results	:	
(h)	Release of admission list (main list	:	
(11)	and waiting list shall be		
	announced on the same day)		
(i)	Date for acceptance by the		
(')	candidate (time given shall in no	:	
	case be less than 15 days)		
/i\	Last date for closing of admission		
(j)	_	:	
// \	& Starting of the Academic session		
(k)	The waiting list shall be activated	:	
	only on the expiry of date of main		
(1)	list		
(1)	The policy of refund of the Fee, in	:	
	case of withdrawal, shall be clearly		
	notified		
12.	Criteria and Weightages for Admissi	on	: Through JEE Main & OJEE examination
(a)	Describe each criterion with its	:	
` '	respective weightages i.e.		
	Admission Test, marks in		
	qualifying examination etc		
(b)	Mention the minimum Level of		
(~)	acceptance, if any		
(c)	Mention the cut-off Levels of		
(0)	percentage and percentile score	•	
	of the candidates in the		
	admission test for the last three		
	years		
(4)	Display marks scored in Test etc.		
(d)		:	
	and in aggregate for all candidates		
	who were admitted		
	,		
13.	List of Applicants : NA		
(a)	List of candidate whose application	s ha	ve been received :
	along with percentile/percentages		
	qualifying examination in separate ca		
	. , 5	3	.
(b)	List of candidate who have applied al	onø	with percentage and
(~)	percentile score for Management q		
	percentile score for Management q	JUL	a seats (merit wise)

14.								
14.	Results of	Admission Under Manag	gemer	nt seats/Vacant sea	it : NA			
(a)	Composit	ion of selection team for	• :					
	admission	under Management						
	Quota							
(b)	List of can	didate who have been	:					
	offered ac	lmission						
(c)	Waiting lis	st of the candidate in						
, ,	_	nerit to be operative						
		ast date of joining of the						
	first list ca							
45								
15.		n of Infrastructure and O			:			
(a)		f Class Rooms and size o	of :	ANNEXURE-15				
	each							
(b)		f Tutorial rooms and size	: :	ANNEXURE-15				
	of each							
(c)		f Laboratories and size o	of :	ANNEXURE-15				
	each							
(d)		f Computer Centers with	າ :	ANNEXURE-15				
	capacity o							
(e)		amination Facility,	:	ANNEXURE-15				
	Number o	f rooms and capacity of						
	each							
(f)	Online exa	mination facility	:	YES				
		of Nodes, Internet band		Internet Bandwidth: 100 Mbps				
	width, etc				•			
(g)		ee Built Environment for		YES, ANNEXURE	-16			
(0)	disabled a	nd elderly persons	'					
(h)		afety Certificate	1:	Applied				
(i)	Hostel Fac		- :	YES				
			/T:+l		- /D			
(j)	Number of Library books/E-books/Titles/Journals available (Programme-wise)							
	Number 0	Library DOORS/ L-DOORS/	rities	/JOUITIAIS AVAIIADII	e (Programme-wise)	:		
	Number o	Library Books, E-Books,	rities	/JOUITIAIS AVAIIADII	e (Programme-wise)	:		
	Sr. No.	Programme		nber of Volumes	Number of Titles	E-Books	Journal Available	
		Programme		nber of Volumes	Number of Titles		Journal Available	
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	Sr. No.	Programme ENGINEERING AND TECHNOLOGY		nber of Volumes 51882	Number of Titles 4220	E-Books DELNET	DELNET	
	Sr. No.	Programme ENGINEERING AND		nber of Volumes	Number of Titles	E-Books		
	Sr. No. 1 2	Programme ENGINEERING AND TECHNOLOGY MCA	Nun	nber of Volumes 51882 6925	Number of Titles 4220	E-Books DELNET	DELNET	
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(u)	For each Post Graduate Courses give the following	:			
(v)	Title of the Course	:			
(w)	Laboratory facilities exclusive to the	:			
	Post Graduate Course				
16.	Enrolment and placement details of st	ude	ents in the last 3years	:	ANNEXURE-23
		:			
17.	List of Research Projects/Consultancy	Wo	rks : NIL		
		:			
18.	MoUs with Industries			:	ANNEXURE-24
			-		





GRIEVANCE REDRESSAL CELL

Date 07/11/2024

Grievance Redressal Cell is revised with the following members.

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

SSEGalMaytinbhane, ther bokken ta Mayurbhanj, Jharpokharia

Memo No. 1406 Dt. 07/11

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

SECOMA PUR DE LA PRIMA PRIMA PER LA PRIMA PERPENTA PER LA PRIMA PER LA Mayurbhanj, Jharpokharia

Memo No. 1407 Dt.

Copy forwarded to Member, Finance for information.

Seemanta Engineering College Mayurbhanj, Jharpokharia SEC,Mayurbhanj,Jharpokharia

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

SEEMANTA ENGG COLLEGE MAYUR VIHAR, MAYURBHANJ OFFICE ORDER

No: SEC/ 1220/24

Dated: 11/09/2024

In accordance with the verdict of the apex court, the Anti-Ragging Committee of Seemanta Engg. College for the session 2024-24 has been constituted. The members are as follows:

ANTI-RAGGING COMMITTEE

Prof.(Dr.)P. Nayak	CHAIRMAN Principal CONVENER	7849068554
Dr. B.N. Kar	Asst.Prof., EE	7978802788
	CO-ORDINATOR	
Prof.(Dr.) A K Sahu	Dean, Academic	9437612637
Er. M N Mohanta	Dean, Administration	9861119192
*	<u>MEMBERS</u>	
Prof.(Dr.) M K Dash	HOD, CHEM	9438400980
Er.K.B. Katiar	HOD, ME	8249836851
Er. B Behera	HOD, CE	9861067932
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
Er. A S Mohapatra	HOD, MCA	9438055004
Er. S Sethi	HOD, ETC	8763343316
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.

SEEMANTA ENGG. COLLEGE





Cetter No. SEC 1405 24

GRIEVANCE REDRESSAL CELL

Date 07/11/2024

Grievance Redressal Cell is revised with the following members.

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- 3. Prof.(Dr.) A.K.Sahu, Dean, Academic, Member
- 4. Dr. M.K.Dash, Professor, Dept. of Chemistry, Member
- 5. Mr. S.K.Dandapat, Associate Prof., Dept. of EEE, Member

Principal Principal SSEGaMayurbhang, thar Sokknada Mayurbhang, Jharpokharia

Memo No. 1406 Dt. 07/11/2024

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

SECOMANGE DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL CO

Memo No. 1407 Dt. 07/11/2024

Copy forwarded to Member, Finance for information.

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

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



Letter No. SECT1469 24

Date 14/11/2024

Internal Complaints Committee (ICC)

The Internal Complaints Committee (ICC) is constituted with the following members.

Prof.(Dr.) Prasanta Nayak	Professor	Member	07849068554	principal@seemantaengg.ac.in
Prof.(Dr.) A.K.Sahu	Professor	Chairperson	09437612637	ajitsahu@seemantaengg.ac.in
Prof.(Er.)M.N.Mohanta	Professor	Member	09861119192	mnmohanta@seemantaengg.ac.in
Mrs. Sarojini Sethi	Associate Prof.	Member	09439663733	sarojinisethi@seemantaengg.ac.in
Mrs. Suchismita	Teaching	Member	09437218195	suchismitabehera@seemantaengg.ac
Behera	Faculty			.in
Mrs. Bandana Nayak	Teaching Faculty	Member	09861313381	bandananayak@ seemantaengg.ac.in
Mr. B. K. Katiar	Non-Teaching Faculty	Member	07735338989	binaykatiar@seemantaengg.ac.in
Mr. Ashis Kumar Panda	Non-Teaching Faculty	Member	09861457977	akpanda@seemantaengg.ac.in
Mr. Venkatesh Sahu	Student	Student	0637615543	venkateshsahu@seemantaengg.ac.in
Ms. Sonali Das	Student	Student	08249619288	sonalidas@seemantaengg.ac.in
Mr. Aniket Sarangi	Student	Student	06201760283	aniketsarangi@seemantaengg.ac.in

Principal
Seemanta Engineering College
Mayurbhall, Sharpokharia

Memo No. 1470 Dt. 1411 2024

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

Principal
Seemantal Enginedring College
Mayurbhanj, Jharpokharia

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



Letter No. SEC 1471 24

Date 14 11 2024

Internal Complaints Committee (ICC)

Annual Report 2024-25

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 2024-25 due proactive precautionary measures to safeguard the issues related to women.

Principal Principal Principal Seemanta Engineering College Mayurbhanj, Jharpokharia

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



Letter No. SEC 1430 24

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. M.N.Mohanta, Dean, Administration, Convenor
- 3. Mr. P.K.Senapati, Associate Prof., Dept. of EE, Member
- 4. Mr. S.K.Dandapat, Associate Prof., Dept. of EEE, Member
- 5. Mrs. Sarojini Sethi, Associate Prof., Dept. of ETC, Member
- 6. Ms. Sushmita Naik, Asst. Prof., Dept. of CIVIL, Member

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

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

SEC, Mayarbhani, Jharpokharia Seemanta Engineering College Mayurbhani, Jharpokharia

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



Letter No. 350 1401 24

Date 05/14/2024

Internal Quality Assurance Cell (IQAC)

The Internal Quality Assurance Cell (IQAC) is constituted with the following members.

Prof.(Dr.) M.K.Dash	Prof., Chemistry	Convener	09438400980	manojdash@seemantaengg.ac.in
Prof.(Dr.) A.K.Sahu	Dean, Academic	Member	09437612637	ajitsahu@seemantaengg.ac.in
Prof.(Er.) M.N.Mohanta	Dean, Administration	Member	09861119192	mnmohanta@seemantaengg.ac.in
Prof.(Er.)P.K.Senapati	HOD, Electrical Engg.	Member	09437161933	pravassenapati@seemantaengg.ac.in
Prof.(Er.) Sarojini Sethi	HOD, Elec. & TC Engg.	Member	09439663733	sarojinisethi@seemantaengg.ac.in

Address for Communication:

The Convener, IQAC Seemanta Engineering College Jharpokharia, Mayurbhanj Odisha – 757086.

e-mail: iqac@seemantaengg.ac.in Website: www.seemantaengg.ac.in Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

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



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

Coordinator, EOC

Seemanta Engineering Cottoga Mayurbhani, Jharpokharia

Page 5 of 5

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

Branch wise list Faculty members:

Sl. No.	Name of faculty	Designation	Deptt.	Date of Joining	Qualification	BPUT Regd. No.
1	Dr. Satya Ranjan Sahu	Prof.	E&TC	16-08-2004	Ph.D.	T1711201814
2	Sarojini Sethi	Asso. Prof	E&TC	20-06-2005	M.Tech	T082020117
3	Bandana Nayak	Asst. Prof.	E&TC	14-08-2005	M.Tech	T082020101
4	Girija Prasad Das	Asst. Prof.	E&TC	14-08-2005	M.Tech	T082020103
5	Debasish Basa	Asst. Prof.	E&TC	10-02-2005	M.Tech	T171201812
6	Dipanwita Sahu	Asst. Prof.	E&TC	27-08-2006	M.Tech	T082020104
7	Dr.Jyoti Prava Mohanta	Asst. Prof.	E&TC	06-08-2007	M.Tech	T082020110
8	Dinesh Kumar Giri	Asst. Prof.	E&TC	11-08-2007	M.Tech	T082020109
9	Kalpana bhuiyan	Asst. Prof.	E&TC	12-11-2007	M.tech.	T171201813
10	Sujit Kumar Mohanta	Asst. Prof.	E&TC	21-08-2008	M.Tech	T082020114
11	Hemanta Kumar Jena	Asst. Prof.	E&TC	21-08-2008	M.Tech	T082020116
12	Syhama Kinkar Ghosh	Asst.Prof.	E&TC	19-08-2008	M.tech	T082020115
13	Ritesh Kumar Panda	Asst. Prof.	E&TC	18-11-2010	M.Tech	T102020102
14	Dr. Satyajeit Pattnaik	Prof.	CSE	26-02-2010	Ph.D.	T111720102
15	Suchismita Behera	Asst. Prof.	CSE	20-06-2005	M.Tech	T081720102
16	Bijay Prasad Saha	Asst. Prof.	CSE	27-08-2006	M.Tech	T081720105
17	Amit Kumar Mishra	Asst. Prof.	CSE	18-09-2007	M.Tech	T081720110
18	Deepkia Jana	Asst. Prof.	CSE	12-11-2007	M.Tech	T081720103
19	Samir Kumar Behera	Asst. Prof.	CSE	19-09-2007	M.tech	T081720101
20	Manoj Kumar Nayak	Asst. Prof.	CSE	18-02-2008	M.Tech	T171201805
21	Chandan Kumar Giri	Asst. Prof.	CSE	01-12-2023	M.Tech	T230120116
22	Subhasmita Pani	Asst. Prof.	CSE	01-12-2023	M.Tech	T230120114
23	Ananya Smruti Snigdha Ojha	Asst. Prof.	CSE	01-12-2023	M.Tech	T230120115
24	Swarup Kumar Dandapat	Asso. Prof	EEE	19-08-1998	M.Tech	T082220104
25	Deepak Kumar Moharana	Asst.Proff	EEE	14-08-2008	M.Tech.	T092220101
26	Rajib Kumar Sahu	Asst. Prof.	EEE	14-08-2008	M.Tech	T081620102
27	Dr. Saroj Kumar Mohapatra	Prof.	EEE	09-11-2008	Ph.D.	T082220105
28	Subhashree Das	Asst. Prof.	EEE	27-08-2006	M.Tech	T171201808
29	Dr.Kanka Goswami	Prof.	ME	02-05-2024	Ph.D.	T240220102
30	Dayarda Ranjan Giri	Asst. Prof.	ME	01-12-2023	M.Tech	T230120121
31	Mahendra Nath Mohanta	Asso. Prof.	ME	09-01-1999	M.Tech	T082720101
32	Dr. Prasanta Nayak	Prof.	ME	09-02-2000	Ph.D.	T082720109
33	Jayanta Kumar Dash	Asst. Prof.	ME	08-12-2006	M.Tech	T082720108
34	Kunja Bihari Katihar	Asst.Prof.	ME	01-11-2007	M.Tech	T082720102
35	Bikash Ranjan Ghosh	Asst. Prof.	ME	08-12-2010	M.Tech.	T102720103
36	Sukumar Dandapat	Asst.Prof.	ME	01-12-2023	M.Tech.	T230120117
37	Nihar Ranjan Mohanta	Asst. Prof.	ME	01-12-2023	M.Tech.	T230120113
38	Shibadatta Mohanty	Asst. Prof.	ME	01-12-2023	M.Tech.	T230120112
39	Mr.Debasish Misra	PoP	ME	02-05-2024	BE	T240120104
40	Mr.Amalesh Kar	PoP	ME	02-05-2024	AMIE (ME)	T240120101
41	Rajan Subhankar Mohapatra	Asst. Prof.	ME	01-09-2018	M.Tech	T171201818
42	Ankit Mohanta	Asst. Prof.	ME	04-02-2019	M.Tech	T171201820

	T					
43	Pravas Kumar Senapati	Asso. Prof.	EE	30-07-2006	M.Tech	T081920112
44	Dr. Binod Kumar Prusty	Prof.	EE	06-10-2004	Ph.D	T171201811
45	Biswajit Parija	Asst.Prof	EE	29-11-2022	M.Tech	T230120109
46	Saroj Kumar Panigrahi	Asst.Prof	EE	31-01-2003	M.E	T081920104
47	Sasmita Pattanaik	Asst.Prof	EE	25-11-2022	M.Tech	T230520111
48	Dr. Ramakanta Jena	Prof.	EE	14-08-2005	Ph.D.	T091920102
49	Dr. Sanat Kumar Barik	Asst.Prof.	EE	30/072006	Ph.D.	T081920101
50	Dr. Asit Kumar Patra	Asst. Prof.	EE	14-08-2005	Ph.D.	T081920111
51	Dr. Biranchi Narayan Kar	Asst.Prof.	EE	08-08-2006	Ph.D.	T081920102
52	Bibhuti Bhusan Giri	Asst.Prof.	EE	01-12-2023	M.Tech	T230120119
53	Dr. Goutam Bairagi	Prof.	Civil	02-05-2024	Ph.D.	T240120103
54	Bhabatosh Behera	Asso. Prof.	Civil	19-08-1998	M.Tech	T171201804
55	Sulagna Das	Asst. Prof	Civil	11-12-2023	M.Tech	T230120125
56	Sushmita Naik	Asst. Prof	Civil	01-12-2023	M.Tech	T230120118
57	Subham Kumar Jena	Asst. Prof	Civil	01-12-2023	M.Tech	T230120123
58	Bidya Parija	Asst. Prof	Civil	01-08-2018	M.Tech	T171201819
59	Bikash Kumar Mohanta	Asst. Prof.	Civil	01-08-2017	M.Tech	T171201802
60	Satyajit Naik	Asst. Prof	Civil	01-08-2017	M.Tech	T171201803
61	Gayatri Nayak	Asst. Prof	Civil	24-11-2022	M.Tech	T230120104
62	Bhagan Hansdah	Asst. Prof	Civil	02-12-2024	M.Tech	T240120107
63	Abhilash Mohapatra	Asst. Prof	Civil	02-12-2024	M.Tech	T240120106
64	Dr. Manas Ranjan Pani	Prof.	MCA	08-06-2007	Ph.D	T176201801
65	Rajeeb Kar	Asst. Prof	MCA	06-08-2009	M.Tech	T100520101
66	Deepak Kumar Rath	Asst. Prof	MCA	25-11-2020	M.Tech	T230520105
67	Dr. Bishwamitra Rana	Asst. Prof	MCA	24-11-2020	Ph.D	T230520106
68	Somen Sahu	Asst. Prof	Phy	01-12-2023	M.Sc.	T230120122
69	Dr. Ajit Kumar Sahu	Prof.	Phy	01-01-1997	Ph.D.	T081020102
70	Dr. Goutam Das	Prof.	Phy	02-01-1962	Ph.D.	T081020101
71	Sk. Mahashin Ali	Asst.Prof	Phy	06-08-2007	M.Sc.	T081020103
72	Dr. Manoj Kumar Dash	Prof.	Chem	01-12-1997	Ph.D.	T081120101
73	Sourav Kumar Panda	Asst.Prof	Chem	17-02-2021	M.Sc.	T230120120
74	Chandra Sekhar Giri	Asst. Prof	Math	06-09-2008	M.Sc.	T111220101
75	Saumya Ranjan Das	Asst. Prof	Math	03-01-2020	M.Sc.	T202820101
76	Rashmi Behera	Asst. Prof	Math	24-11-2022	M.Sc	T230120103
77	Dr. Sasadhar Kalia	Prof.	English	22-11-1999	Ph.D.	T081320105
78	Dhiren Kumar Pradhan	Asst. Prof.	English	19-08-2008	MA in English	T179201802
79	Puspamitra Rout	Asst. Prof.	English	01-12-2022	MA in English	T230120110
80	Pujasmita Sahu	Asst. Prof.	English	10-09-2024	MA in English	T240120105
81	Ananda Sankar Mohapatra	Asso. Prof.	Management	01-09-2003	M.Com	T081320103

Faculty and Student Ratio:

Degree	Department	Specialization bei		No. of F	No. of faculty			
		offered by the departm ent (with AICTE/ BPUT)		the Dep	the Department on full-time basis			
		Specialization	Intake	Prof.	Assoc Prof.	Asst Prof.	7	
B.TECH	E&TC		60	1	2	10	13	
	CSE		60	1	0	9	10	
	EEE		30	0	2	3	5	
	ELE		60	1	2	4	7	
	CIVIL		60	1	1	9	11	
	ME		120	1	2	8	11	
M.TECH	ELE	POWER SYSTEM	18	1	1	1	3	
	ME	PRODUCTION	18	1	1	1	3	
MCA	MCA		60	1	1	3	5	
	MATH			0	0	3	3	
	ENG.			1	0	3	4	
	CHE.			1	0	1	2	
	PHY.			2	0	2	4	

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.

(A) Fees Structure for Engineering Colleges:

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

SI. 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.	Rs.70,000/-	Rs.70,000/- + Rs.4,000/- _(NAAC-'B')_ Rs.74,000/-
34	Trident Academy of Technology, Plot No.F-2A, In front of Infocity, Chandaka Industrial Estate, Chandrasekharpur, Bhubaneswar-751024.	M. Tech B.Tech.	Rs.77,000/- Rs.75,000/-	Rs.81,000/- 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,	B.Tech.	Rs.46,000/-	Rs.46,000/-
42	Cuttack. 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	МСА	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 2024-25

Extension of Approval (EoA)

F.No. Eastern/1-43659063856/2024/EOA

Date of Approval: 24-May-2024

To,

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

Ref. Online application of the Institution submitted for Extension of Approval for the Academic Year 2024-25 Sir/Madam

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

Permanent Id	1-10787922	Application Id	1-43659063856
Name of the Institution	SEEMANTA ENGINEERING COLLEGE, MAYURBHANJ	Name of the Society/Trust	SEEMANTA MAHAVIDYALAYA SAMITI
Institution Address	AT- MAYURVIHAR, VILLAGE- JAUNTI, POJHARPOKHARIA, MAYURBHANJ, PIN-757086., BARIPADA, MAYURBHANJ, Odisha, 757086	Society/Trust Address	AT-JHARPOKHARIA PO-JHARPOKHARIA DIST- MAYURBHANJ AT- JHARPOKHARIA,BARIPADA,MAY URBHANJ,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 2024-25

Application No:1-43659063856 ALL INDIA COUNCIL FOR TECHNICAL EDUCATION Note: This is a Computer generated Report. No signature is required. Printed By: ae7791381

Page **1** of **5**

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2023-24	Intake Approved for 2024-25	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
DIPLOMA	ENGINEERI NG AND TECHNOLO GY	CIVIL ENGINEERING	Directorate of Technical Education & Training, Odisha	60	60	No	No
DIPLOMA	ENGINEERI NG AND TECHNOLO GY	ELECTRICAL ENGINEERING	Directorate of Technical Education , Odisha	60	60	No	No
DIPLOMA	ENGINEERI NG AND TECHNOLO GY	MECHANICAL ENGINEERING	Directorate of Technical Education & Training, Odisha	60	60	No	No
UNDER GRADUATE	ENGINEERI NG AND TECHNOLO GY	CIVIL ENGINEERING	Biju Patnaik University of Technology, Bhubaneswar	60	60	No	No
UNDER GRADUATE	ENGINEERI NG AND TECHNOLO GY	COMPUTER SCIENCE AND ENGINEERING	Biju Patnaik University of Technology, Bhubaneswar	60	60	No	No
UNDER GRADUATE	ENGINEERI NG AND TECHNOLO GY	ELECTRICAL AND ELECTRONICS ENGINEERING	Biju Patnaik University of Technology, Bhubaneswar	30	30	No	No
UNDER GRADUATE	ENGINEERI NG AND TECHNOLO GY	ELECTRICAL ENGINEERING	Biju Patnaik University of Technology, Bhubaneswar	60	60	No	No
UNDER GRADUATE	ENGINEERI NG AND TECHNOLO GY	ELECTRONICS AND TELECOMMUNIC ATION ENGINEERING	Biju Patnaik University of Technology, Bhubaneswar	60	60	No	No
UNDER GRADUATE	ENGINEERI NG AND TECHNOLO GY	MECHANICAL ENGINEERING	Biju Patnaik University of Technology, Bhubaneswar	120	120	No	No
POST GRADUATE	COMPUTE R APPLICATI ONS	MASTERS IN COMPUTER APPLICATIONS	Biju Patnaik University of Technology, Bhubaneswar	30	30	No	No
POST GRADUATE	ENGINEERI NG AND TECHNOLO GY	ELECTRICAL ENGINEERING	Biju Patnaik University of Technology, Bhubaneswar	18	18	No	No

Application No:1-43659063856 ALL INDIA COUNCIL FOR TECHNICAL EDUCATION Note: This is a Computer generated Report. No signature is required. Printed By: ae7791381

Page **2** of **5**

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2023-24	Intake Approved for 2024-25	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
POST GRADUATE	ENGINEERI NG AND TECHNOLO GY	MECHANICAL ENGINEERING	Biju Patnaik University of Technology, Bhubaneswar	18	18	No	No

Approved New Course(s)

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

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

Application No:1-43659063856 ALL INDIA COUNCIL FOR TECHNICAL EDUCATION Note: This is a Computer generated Report. No signature is required. Printed By: ae7791381

Page 3 of 5

Important Instructions

- 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.
 - 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.
- 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.
- All AICTE institutions are highly encouraged to get NBA/NAAC accreditation. All eligible AICTE institutions are thoroughly encouraged to participate in NIRF ranking process.
- 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%
- Internship is mandatory for all admitted students.
- 9. AICTE Approved Institutes are encouraged to make efficient use of the flagship schemes like:
 - a. Parakh: Student Gap analysis portal bases services.
 - b. Students Scholarship schemes like Pragati, Saksham, Swanath, ADF, etc.
 - c. Course in Indian Languages.
 - d. ATAL FDPs: Faculty training for Emerging areas and cutting edge Technologies.
 - e. Augmenting Utilization of Research Assets (AURA).
 - f. Smart India Hackathon: World's largest Open Innovation Platform.

Prof.Rajive Kumar Member Secretary, AICTE

Copy to:

- 1. The Director Of Technical Education**, 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.,

Application No:1-43659063856 ALL INDIA COUNCIL FOR TECHNICAL EDUCATION Note: This is a Computer generated Report. No signature is required. Printed By: ae7791381

Page 4 of 5

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

Application No:1-43659063856 ALL INDIA COUNCIL FOR TECHNICAL EDUCATION Note: This is a Computer generated Report. No signature is required. Printed By: ae7791381

Letter Printed On:29 May 2024

Page 5 of 5



BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA, ROURKELA

(An Affiliating State University of Govt. of Odisha)

No. BPUT/ Affl./4406 Date :05-07-2024

From Registrar BPUT, Odisha

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 2024-25.

Sir.

I am to inform you that on the basis of your application for continuation of affiliation for the Year 2024-25 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 **2024-25**.

SI. No.	Courses VERS///	Approved Intake For 2024-25	Level
1.	Civil Engineering	60	UG
2.	Computer Science and Engineering	60	UG
3.	Electrical Engineering	60	UG
4.	Electrical and Electronics Engineering	30	UG
5.	Electronics and Telecommunication Engineering	60	UG
6.	Mechanical Engineering	120	UG
7.	Electrical Engineering	18	PG
8.	Mechanical Engineering	18	PG
9.	Master in Computer Applications	30	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. 4407 Date : 05-07-2024 Copy to

1. The Additional Secretary to Government, SD&TE, Government of Odisha for kind information.

2. The Chairman, JEE, Odisha for information and necessary action.

Registrar



Hd. Qrs. : BPUT Campus, Chhend, Rourkela-769 015, Ph. : (0661) 2482556,558,559,560,561,563,564 Fax : (0661) 2482562, website : www.bput.ac.in

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

SI.	Discipline	2024-28	2023-27	2022-26	2021-25	Total
No.	Discipline	202120	2023 27	2022 20	2021 23	Total
1	Civil Engineering	10	64	66	48	188
2	Computer Science & Engineering	63	70	66	59	258
3	Mechanical Engineering	19	129	115	93	356
4	Electrical Engineering	32	68	62	48	210
5	Electronics & Telecommunication Engineering	2	28	15	11	56
6	Electrical & Electronics Engineering	16	28	27	23	94
7	MCA	34	33			67
8	Electrical Engineering (M.Tech)	6	4			10
9	Mechanical Engineering (M.Tech)	2	1			3
10	Electrical Engineering (Diploma)	61	67	54		182
11	Mechanical Engineering (Diploma)	61	66	60		187
12	Civil Engineering (Diploma)	61	52	47		160
				G	rand Total	1771

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



Letter No. SEC 914 25

Date 10 06 2025

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.

Přínčípil Seemanta Engineering College Mayurbhani, Jharpokharia

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



Letter No. SEC 915 25

Date 10 06 2025

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.

Principal
Principal
Principal
Seemanta Engineering College
Mayurbhanj, Jharpokharia

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

COMPUTER SCIENCE & ENGINEERING

SI.	Name of the	List of Major	Facilities in each Laboratory/Workshop	No. of
No.	Laboratory	Equipment		Equipment(s)
1.	LAB - 01	PC [HDD 360 Gb/500 GB, RAM 2 Gb, Monitor 19", Keyboard, Mouse, DUAL CORE Processor, USB 2	Software: 1. Operating System – [Linux] 2. C Compilers & IDEs:	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.
2.			Projector	1 no.
3.	Lab - 02	PC [HDD 360 Gb/500 GB, RAM 2 Gb, Monitor 19", Keyboard, Mouse, DUAL CORE Processor, USB 2	Software: 1. Operating System – [Linux] 2. C Compilers & IDEs: GCC (GNU Compiler Collection) Turbo C++ (for legacy support) Code::Blocks Dev-C++ Microsoft Visual Studio Code 3. Debugging Tools – GDB (GNU Debugger) 4. Version Control – Git, GitHub (for project collaboration) 5. 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

	1	200		
4.	LAB 04	PC [HDD 360	Software:	26 nos
		Gb/500 GB,	6. Operating System – [Linux]	
		RAM 2 Gb,	7. C Compilers & IDEs:	
		Monitor 19",	o GCC (GNU Compiler	
		Keyboard,	Collection)	
		Mouse, DUAL	 Turbo C++ (for legacy 	
		CORE	support)	
		Processor, USB	o Code::Blocks	
		2	o Dev-C++	
			 Microsoft Visual Studio 	
			Code	
			8. Debugging Tools – GDB (GNU	
			Debugger)	
			9. Version Control – Git, GitHub (for	
			project collaboration)	
			10. Other Utilities – Notepad++,	
			Sublime Text, Terminal/Command	
			Prompt	
			AC (1 TONN)	3 nos
			FAN	2 nos
			Internet- 100 mbps	
			UPS -15 KVs	01 nos
5.	LAB0 5	PC [HDD 360	Software:	30 nos
		Gb/500 GB,	11. Operating System – [Linux]	
		RAM 2 Gb,	12. C Compilers & IDEs:	
		Monitor 19",	o GCC (GNU Compiler	
		Keyboard,	Collection)	
		Mouse, DUAL	Turbo C++ (for legacy	
		CORE	support)	
		Processor, USB	Code::Blocks	
		2	o Dev-C++	
			 Microsoft Visual Studio 	
			Code	
			13. Debugging Tools – GDB (GNU	
			Debugger)	
			14. Version Control – Git, GitHub (for	
			project collaboration)	
			15. Other Utilities – Notepad++,	
			Sublime Text, Terminal/Command	
			Prompt Proxity Prompt	
			AC (1 TONN)	3 nos
			FAN	4 nos
			Internet- 100 mbps	7 1103
			UPS -15 KVs	1 no

ELECTRICAL ENGINEERING

SI.	Name of the Laboratory	List of Major Equipment and Facilities in each	No. of
No.		Laboratory/Workshop	Equipment(s)
1	BASIC ELECTRICAL	DC series motor (3HP) with control panel.	01
2	ENGINEERING	DC Shunt Motor (3HP) with control Panel.	01
3	LABORATORY	DC M/G set (Motor- 3HP) (Gen – 2kw) with control Panel.	01
4		Single Phase, 1HP Induction Motor (CSCR).	01
5		AC universal Motor (0.25KW	01
6		3 point starter (DC)	02

7	Filed Regulator	02
8	Single Phase 2KVA Transformer	01
9	1 O Variac (Autotransformer)	03
11	Inductive Load (1 0)	01
12	Capacitive Load (V)	01
13	Resistive Load (1 0)	02
14	Single Phase Energy Meter	01
15	D.O.L starter.	01
16	Double Tube Rheostat (750Ω, 2A)	01
17	Double Tube Rheostat (50Ω, 10A)	01
18	Single Tube Rheostat (200Ω, 2A)	01
19	10 House Wiring Demo Board.	01
20	Double Tube Rheostat (100Ω, 5A)	01
21	1 O AC voltmeter (0-600V)	01
22	1 O AC voltmeter (0-300V)	01
23	1 O AC ammeter (0-30A)	01
24	1 O AC ammeter (0-02A)	01
25	1 O watt meter (0-3000w)	02
26	Sq. Cage induction motor 30, 1HP.	01
27	Electric Heter 1500 watt	01
28	PVC Chair	13
29	'S' Chair	05
30	Sitting Desk	03
31	Ply Table	01

SI.	Name of the	List of Major Equipment	Facilities in each	No. of
No.	Laboratory		Laboratory/Workshop	Equipment(s)
1	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	AC (1.5 Ton)-2 No	67
		MULTIMETER-2		
		VOLTMETER-1		
		AMMETER-1		
		ENERGY METER-1		
		PATCH CHORD-50		
		POWER CHORD- 10		

SI. No.	Name of Lhe Laboratory	List of Experimental Setup in each Laboratory

1	method an SI. No 1	1 THREE PHASE SYNCHRONOUS GENERATOR 3KVA, 415V, 4 amp.50 .Hz SPEED1500rpm					
	AITANATO	IS REQUIRED ME OF APPARATUS	TYPE	RANGE	QUANTI TY		
		meter	A.C/MI	(0-10A)	1		
	2 Am	meter	D.C	(0-2A)	1		
	3 Vol	tmeter	A.C	(0-300)V	1		
	4 Tac	hometer	digital	1			
	Thr. 5 load	ee phase variac(inductive	A.C	(0-415V/470),28A 1KVA	1		
	6 Thr	ee point starter			1		
	7 Rhe	eostat		100ohm,5A	1		
	8 Fiel	d regulator		100 ohm,5A	1		
	n.o	meter tmeter meter meter meter d regulator	A.C/MI A.C/MI D.C D.C	(0-10A),) (0-600)V, (0-5A) (0-300)V	QUANTITY 1 1 1 1 1		
	6 M.C	C.B		3Ø,440V,10A	1		
		ver factor meter			1		
	8 D.O	.L starter			1		
	9 Tac	hometer	Digital contact	type	1		
3- do	AIM-Speed SI. No 1	NAME OF MACHINE AND	SPECIFICATON				
	2	SPEED1500rpm	HP 220\/	1800 A, 1500 rpm	50 III <u>E</u>		

	. APPARATUS RI	EQUIRED						
		APPARATUS	TYPE	RANGE	QUANTIT			
					Υ			
	0							
	1 Ammeter		A.C/MI	(0-5A),(0-15A)	2			
	2 Voltmete 3 Three ph		A.C A.C	(0-300)V,(0-50V) (0-415V/470),28A	1+1			
	3 Wattmet	ase variac	A.C	2.5A,10A,1500W	2			
	4 Tester,cu		A.C	2.37,107,1300**	1each			
	5 Connecti			3/22 S.W.G	Teach			
	6 Frequenc			3/22 3.44.0				
4-	<u>'</u>	•	rs of synchrono	us machine (a) Positive se	nuence reactance (b)			
		nce reactance (c)			4(0)			
	MACHINE I.			/A, 415V, 4 amp.				
	No	50 .Hz SPEED:	•					
		D.C DHUNT MO 1500 rpm	TOR (USED AS P	RIEMOVER 5 HP , 22	20V , 1800 A,			
	APPARATUS RE	· ·						
	s.l NAME O	F APPARATUS	TYPE	RANGE	QUANTITY			
	0		A C / B A I	(0.404)				
	1 Ammete		A.C/MI	(0-10A),	1			
	2 Voltmete 3 Ammete		A.C/MI D.C	(0-600)V,	1			
		int starter	D.C	(0-2A)	1			
	5 Field reg	ulator		1000hm,5A	1			
	6 Rheostat			1000hm,5A	1			
	7 Tachome	ter	Digital cor type	ntact				
	8 Connecti	ng wires	1,60	3/22 S.W.G,Cu				
	9 Tester,cu	itter,plier			1 each			
5	AIM-Determination of parameter of a Capacitor start single phase induction motor							
	Sl.no NA	ME OF MACHIN	E WITH SPECIFI	CATON				
	1 sir	gle phase inducti	on motori)capa	citor start motor ii) capaci	tor start capacitor			
	rui	run motor I H.P,220V ,6A ,1440RPM						
	ADDADATUS DE	OLUBED						
	s.I NAME OF	APPARATUS	TYPE	RANGE	QUANTITY			
	n.	ALLAMATUS	' ' ' '	NANGE	QUANTITI			
	0							
	1 Ammeter	-	A.C	(0-5)A,(0-10A)	1			
	2 Voltmete	r	A.C	(0-300)V	1			
	3 wattmete	er	A.C	(0-300W)	1			
	3 Millimete	er	A.C		1			
	4 Digital ta	chometer			1			
	5 Single ph	ase variac	A.C	260V,20A	1			

	6	Cutter , plier				1 each	
	7	Connecting wires				As per required	
6 A	M-S	tudy of parallel operation of tw	vo alternators				
	SI. No 1	ALTERNATOR 3KVA, 415V, 4 amp.50 .Hz SPEED1500rpm			SED AS PRI	EMOVER	5 HP
	PPAR	RATUS REQUIRED					
	s.l n.o	NAME OF APPARATUS	TYPE		RANGE		QUANTIT
	1	Ammeter	A.C/MI		(0-10A),(0-	5A),(0-5A)	1+1+1
	2	Voltmeter	A.C/MI		(0-600)V,		1+1
	3	Ammeter	D.C		(0-2A)		1+1
	4	Three point starter					1+1
	5	Field regulator			100Ohm,5/	4	1+1
	6	Rheostat			100Ohm,5/	4	1+1
	7	Three phase load box					1
	8	Synchronizing penal board	HZ,PHA,S	Y -scope			1
	9	T.P.S.T					1
	10	Tachometer	Digital co type	ntact			
	11	Connecting wires			3/22 S.W.G	i,Cu	
	12	Tester,cutter,plier					1 each
n	nachii	Measurement of direct and qua ne by Slip test INE SPECIFICATION	adrature axis rea	ctance of a	salient pole	e synchrono	us
		NAME OF MACHINE SPEC	CIFICATON				
	1	THREE PHASE SYNCHRO	NOUS GENERAT	OR 3KVA,	415V, 4 am	np.50 .Hz	
	2	SPEED1500rpm D.C DHUNT MOTOR 5	HP, 220V,	1800 A, 15	:00 rpm		
		RATUS REQUIRED	TIP, 220V,	1000 A, 13	оо грпі		
	s.l	NAME OF APPARATUS	TYPE	RANGE			QUAN
	n.						TITY
 	0 1	Ammeter	A.C/MI	(0-10A)			1
	2	Voltmeter	A.C/MI	(0-600)V	(0-150\/)		1+1
	3	Three phase variac	A.C	<u> </u>	470),28A,1I	KVA	1
	3	Three point starter			., 0,,200,11		1
	4	Field regulator		1000hm,	.5A		1
	4	Tachometer	Digital contact	= 300			
	·		type				
	5	Connecting wires		3/22 S.W	.G,Cu		
	6	Tester,cutter,plier					1 each

	NAME OF MACHINE SPECIFICATO		ctance of a salient pole alternator			
1 Three phase		15V, 4 amp. 50 .Hz SPEED	1500rpm			
synchronous ger			-000. p			
2 D.C DHUNT MOT	FOR 5 HP ,	220V , 1800 A, 1500 ı	pm			
APPARATUS REQUIRED						
s.l NAME OF APPARATUS	TYPE	RANGE	QUANTITY			
1 Ammeter	A.C/MI	(0-10A)	1			
2 Voltmeter	A.C/MI	(0-600)V,(0-150V)	1			
3 Three phase variac	A.C	(0-415V/470),28A,1KVA	1			
3 Three point starter			1			
4 Field regulator		1000hm,5A	1			
4 Tachometer	Digital contact type					
5 Connecting wires	,,	3/22 S.W.G,Cu				
6 Tester,cutter,plier			1 each			
Determination of parameters of three phase induction motor from No Load Test and Blocked Rotor Test						
SI. NO NAME OF MACH	IINE	SPECIFICATON				
1 Three phase Inc	duction motor	5HP.,415V,6A, 3-PHAS &SON	SE RAM SON			
APPARATUS REQUIRED						
s.l NAME OF APPARATUS n. o	TYPE	RANGE	QUANTITY			
1 Ammeter	A.C/MI	(0-5A),(0-15A)	2			
2 Voltmeter	A.C	(0-300)V,(0-50V)	1+1			
3 Three phase variac	A.C	(0-415V/470),28A	1			
3 Wattmeter	A.C	2.5A,10A,1500W	2			
4 Tester,cutter,plier			1each			
5 Connecting wires		3/22 S.W.G				

SI.	Topic as per BPUT syllabus	List of Major Equipment	Facilities in electrical machine	No. of
No.			1 Laboratory	Equipment(s)
1	Determination of	SINGLEPHASE	Experimental Setup FOR THE	
	Efficiency and Voltage	TRANSFORMER	EXPERIMENT WITH PANAL	
	Regulation by Open Circuit	1KVA 110/220V	BOARD AND MEASURING	1
	and Short Circuit test on		INSTIMENYS	
	single phase transformer.			
2	Parallel operation of two	SINGLE PHASE	DO	
	single phase transformers	TRANSFORMER		2
		1KVA		2
		110/220V		
3	Back-to Back test on two	SINGLE PHASE	DO	
	single phase transformers	TRANSFORMER		2
		1KVA		

4	Study of open delta and Scott connection of two single phase transformers	SINGLE PHASE TRANSFORMER 1KVA 110/220V	DO	2
5	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	DO	1+1
6	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	DO	1+1
7	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	DO	1
8	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	DO	1+1

SI. No.	Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/Workshop	No. of Equipment(s
1	EEPC2201 ELECTRICAL CIRCUIT ANALYSIS LAB	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	1
and band pass filters	
study trainer	
7 .R-L-C series and	1
parallel resonanc study	
trainer	
8 . for R-L, R-C & R-L-C	1
ckt. Transients	
response study trainer	
9. Tuned coupled ckt.	1
study trainer	
10. Regulated dc power	2
supply	
11 . Digital multimeter	4
12. Function Generator	2

SI.	Name of the	List of Major Equipment	Facilities in each	No. of
No.	Laboratory		Laboratory/Works	Equipment(s)
			hop	
1	Electric	1.AC DISTRIBUTION SIMULATOR		1.AUTOTRANSFOR
	Power	MODULE		MER-01
	Transmission	2.IMPROVEMENT OF POWER FACTOR		2.MULTIMETER-03
	and	USING SWITCHED CAPACITOR KIT		3.PATCH CHORDS
	Distribution	3. Determination of String efficiency		
	Laboratory	MODULE		
	Course Code:	4.MEGGER KIT		
	REL5C201			

SI.	Name of the	List of Major Equipment and Facilities in each	No. of Equipment(s)
No.	Laboratory	Laboratory/Workshop	
No. 1	Power electronics lab Sub code: REL4C203	1. VI characteristic of SCR & AC to DC.Converter module01 2. Buck Converter Module-01 Boost Converter Module-01 3. Phase Diode Bridge Module-01 4. VI characteristics of Traiac & AC voltage regulator01 5. Single Phase Inverter Module01 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 kit01 10. Series Inverter Kit01 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 kit01 15.3 half & fully controlled converter, AC Regulator Module-01	01. Regulator DC power supply.02 02.Analog Oscilloscope-02 03.Capacitor Module01 05.Rheostat (50Ω, 4A)-03 06.Rheostat (100Ω, 5A)-01 07.Single Phase Transformer02 08.3⊕ Transformer -01 09.150VA Isolation transformer02 10.Digital Multi Meter-06 11.Patch chord/ Power Chord 12.Single Phase Auto Transformer-01

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SL.NO.	Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/Workshop	No. of Equipment(s)
		Digital Storage Oscilloscope (25MHz)	,,	08
		Universal Electronics Trainer (Microlab-II)		23
	DACIC ELECTRONICS	Function Generator(Scientific 3MHz,Scientech 2MHz, Falcon 2MHz		12
	BASIC ELECTRONICS	Digital Multimeter		10
	LAB/ ANALOG ELECTRONIC CIRCUIT	Class A, B power amplifier Trainer Kit		01
	LABORATORY/	RC phase shift oscillator Trainer Kit		01
	DIGITAL	IC(7408,7432,7404,7400,7402,7486)		50 EACH
	ELECTRONICS	IC 7447		30
	LABORATORY/	LT542(Display Device)		30
	DIGITAL SYSTEM	IC 74151		15
	DESIGN	IC 74153		15
	LABORATORY	IC 7411		15
		IC 74138		20
		IC 7476		20
		IC 7474		20
		IC 7495		10
		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
	PRINCIPLES OF	FM modulation and Demodulation Kit (ACL 03 and ACL 04)		04 EACH
	COMMUNICATION	PCM Kit (DCL 03 and DCL 04)		04 EACH
	SYSTEMS LAB/	DM Trainer Kit ST 2105		03
	ANALOG AND DIGITAL COMMUNICATION	Modulator and Demodulator Trainer Kit-ST2106,		03 EACH
	LABORATORY/ COMMUNICATION ENGINEERING LAB	ST2107(ASK,FSK,PSK) Satellite Uplink transmitter, Satellite downlink receiver and satellite link emulator, RHCP &LHCP axial mode helix antennas, Antenna stands with connecting cables reflecting sheet		O1 SET
		8086 Trainer Kit		06
	MICROPROCESSORS	DAC Kit		04
	AND	ADC Kit		01
	MICROCONTROLLERS	8255 PPI		02
	LABORATORY	8051 Microcontroller Kit		02
		8251 Kit		02
	MICROWAVE	Microwave Test Bench		01

ENGINEERING LAB		
	DSP kit TMS 320C5X	07
DIGITAL SIGNAL	MATLAB 7	07
PROCESSING	PC(Dual Core,1GB RAM,320GB HDD)	
LABORATORY/		
SIGNALS AND		
SYSTEMS		
LABORATORY		

ELECTRICAL AND ELECTRONICS ENGINEERING

Sl. No.	Name of the Laboratory	List of major Equipment	Facilities in each laboratory	No. of Equipments
1	DIGITAL ELECTRONICS LAB.	CRO		18
		FUNCTION GENERATOR		10
		UNIVERSAL TRAINER KIT		24
		PROGRAMABLE DIGITAL MULTIMETER		1
		DIGITAL MULTIMETER		16
			AIR BLOWER	1
2	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
3	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
4	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 UP	2
		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

T	1
HIGH CURRENT LINEAR VARRIABLE DC POWER SUPPLY	2
TRAINER	
MAXWELL BRIDGE TRAINER	1
SCHERING BRIDGE TRAINER	1
SPECTRUM ANALYZER USING	1
BANK OF FILTERS	_
WATER LAVEL GAGE	2
CALIBRATION OF VOLTMETER & AMMETER BY DC	1
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

Sl. No.	Name of the	List of Major Equipment	Facilities in each	No. of
	Laboratory		Laboratory/	Equipment(s)
			Workshop	
1		UTM(Universal Sand	Working	01
		Testing Machine)		
2		Sand Mixture Machine	Working	01
3		Green Compression	Working	01
		Strength Machine		
4		Rapid Sand/Clay washer	Working	01
5	Production Lab	Sand Rammer	Working	01
6	(Foundry)	Moisture meter	Working	01
7		Permeability meter	Working	01
8		Hardness tester	Working	01
9		Sieve shaker with set of	Working	01
		sieve		
10		Crucible furnace	Working	01
11		Cupola furnace	Working	01

12		Black Silica Sand Bed	Working	01
13		Bentonite Power	Working	01
	·			
Sl. No.	Name of the	List of Major Equipment	Facilities in each	No. of
31. 140.	Laboratory	List of Major Equipment	Laboratory/	Equipment(s)
	Laboratory			Equipment(s)
4	Danis a CM a drive	Don to Bread	Workshop	60
1	Design of Machine	Drawing Board	Working	60
	Elements Lab			
2	Design of Machine	Drawing Pins	Working	240
	Elements Lab			
3	Design of Machine	Table	Working	60
	Elements Lab			
4	Design of Machine	HCL Computer Systems:	Working	15
	Elements Lab	AUTOCAD Software		
	-	I		
Sl. No.	Name of the	List of Major Equipment	Facilities in each	No. of
31. INU.		List of Major Equipment		
	Laboratory		Laboratory/	Equipment(s)
			Workshop	
1	Design of Machine	Drawing Board	Working	60
	Elements Lab			
2	Design of Machine	Drawing Pins	Working	240
	Elements Lab			
3	Design of Machine	Table	Working	60
	Elements Lab			
			•	•
Sl. No.	Name of the Laboratory	List of Major Equipment	Facilities in each	No. of
	,	, , , ,	Laboratory/ Workshop	Equipment(s)
1	Fluid Mechanics	Reciprocating Pump	Working	01
	&Hydraulic Machinery			
2	Fluid Mechanics	Centrifugal Pump	Working	01
	&Hydraulic Machinery			
3	Fluid Mechanics	Pelton Wheel Turbine	Working	01
	&Hydraulic Machinery			
4	Fluid Mechanics	Francis Turbine	Working	01
	&Hydraulic Machinery			
5	Fluid Mechanics	Orifice meter	Working	01
	&Hydraulic Machinery			
6	Fluid Mechanics	Bernoullis Apparatus	Working	01
	&Hydraulic Machinery			
7	Fluid Mechanics	Metacentric Height	Working	01
	&Hydraulic Machinery	Apparatus		
8	Fluid Mechanics	Impact of Jet Apparatus	Working	01
	&Hydraulic Machinery			
9	Fluid Mechanics	Weir and Notches	Working	01
	&Hydraulic Machinery	Apparatus		
10	Fluid Mechanics	Pipe Friction Apparatus	Not Working	01
	&Hydraulic Machinery			
Sl. No.	Name of the Laboratory	List of Major Equipment	Facilities in each	No. of
	<u> </u>		Laboratory/ Workshop	Equipment(s)
1	Heat transfer	Heat Transfer from pin-fin	Working	01
	Lab(RME5C2003)			
2	Heat transfer	Heat Transfer through	Working	01
_	Lab(RME5C2003)	Metalic Rod		
3	Heat transfer	Stefan Boltzman's	Working	01
	Lab(RME5C2003)	Apparatous	VVOINIIB	
	Lab(MVIL3C2003)	Apparatous	1]

4	Heat transfer	Emisivity measurement	Working	01
	Lab(RME5C2003)	Apparatous		
5	Heat transfer	Shell &Tube Heat	Not Working	01
	Lab(RME5C2003)	Exchanger		
6	Heat transfer	Parallel Flow &Counter	Not Working	01
	Lab(RME5C2003)	Flow Heat Exchanger		

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

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

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

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

Sl. No.	Name of the	List of Major Equipment	Facilities in each	No. of
	Laboratory		Laboratory/	Equipment(s)
			Workshop	
1	Material Testing	Universal Testing Machine	Working	01
	Lab	[Tensile+ Compressive+		
		Shear+ Bending]		
2	Material Testing	Fatigue Testing Machine	Working	01
	Lab			
3	Material Testing	Tensile & Compressive Spring	Working	01
	Lab	Testing Machine		

4	Material Testing	Hardness Testing Machine	Working	01
	Lab			
5	Material Testing	Impact Testing Machine	Working	01
	Lab			
6	Material Testing	Rigidity Modulus Testing	Working	01
	Lab	Machine		
7	Material Testing	Strain measurement	Working	01
	Lab			
8	Material Testing	Stress measurement	Working	01
	Lab			

Sl. No.	Name of the Laboratory	List of Major Equipment	Facilities in each Laboratory/ Workshop	No. of Equipment(s)
1	Thermal Engineering Lab	4-stroke petrol engine (multi cylinder)	Not Working	01
2	Thermal Engineering Lab	4-stroke diesel engine (multi cylinder)	Working	01
3	Thermal Engineering Lab	Refrigeration System	Working	01
4	Thermal Engineering Lab	Reciprocating Air Compressor (2 stage)	Working	01
5	Thermal Engineering Lab	2- stroke petrol engine (single cylinder)	Working	01
6	Thermal Engineering Lab	Cut-section-4 stroke diesel engine (single cylinder)	Working	01
7	Thermal Engineering Lab	2- stroke diesel engine model (single cylinder)	Working	01
8	Thermal Engineering Lab	2- stroke petrol engine model (single cylinder)	Working	01
9	Thermal Engineering Lab	4- stroke diesel engine model (single cylinder)	Working	01
10	Thermal Engineering Lab	4- stroke petrol engine model (single cylinder)	Working	01

CIVIL ENGINEERING

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

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

SI.	Name of the	List of Major Equipment	Facilities in each	No. of
No.	Laboratory		Laboratory/Workshop	Equipment(s)
1	GEOTECHNICAL	Pycnometer		04
	ENGINEERING			
	LABORATORY			

2	GEOTECHNICAL ENGINEERING	IS sieve	02 sets
	LABORATORY		
3	GEOTECHNICAL	Casagrande apparatus	02
	ENGINEERING	Plastic limit apparatus	02
	LABORATORY	Shrinkage limit apparatus	02
4	GEOTECHNICAL	Core cutter	03
	ENGINEERING		
	LABORATORY		
5	GEOTECHNICAL	Standard compaction apparatus	01
	ENGINEERING		
	LABORATORY		
6	GEOTECHNICAL	Relative density apparatus	01
	ENGINEERING		
	LABORATORY		
7	GEOTECHNICAL	CBR test apparatus	01
	ENGINEERING		
	LABORATORY		

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

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

SI.	Name of the Laboratory	List of Major Equipment	Facilities in each	No. of
No.			Laboratory/Workshop	Equipment(s)
1	WATER SUPPLY &	Digital water analysis kit		01
	SANITARY ENGINEERING			
	LABORATORY			
2	WATER SUPPLY &	Chemical kit test		01

	SANITARY ENGINEERING		
	LABORATORY		
3	WATER SUPPLY &	Chemicals	01
	SANITARY ENGINEERING		
	LABORATORY		
4	WATER SUPPLY &	COD test of water	01
	SANITARY ENGINEERING		
	LABORATORY		
5	WATER SUPPLY &	DO TEST OF WATER	01
	SANITARY ENGINEERING		
	LABORATORY		
6	WATER SUPPLY &	Ph test of water	01
	SANITARY ENGINEERING		
	LABORATORY		
7	WATER SUPPLY &	Chloride test of water	01
	SANITARY ENGINEERING		
	LABORATORY		

SI.	Name of the Laboratory	List of Major Equipment	Facilities in each	No. of
No.			Laboratory/Workshop	Equipment(s)
1	Design of Concrete	SLUMP CONE		08
	Structures Lab	COMPACTION FACTOR		01
		APPARATUS		01
		FLOW TABLE APPARATUS		
2	Design of Concrete	CUBE MOULD		05
	Structures Lab			

SI.	Name of the Laboratory	List of Major Equipment	Facilities in each	No. of
No.			Laboratory/Workshop	Equipment(s)
1	Steel Structures Lab	NO EQUIPMENT		

COMPUTER SCIENCE & ENGINEERING

Sl. No.	Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
1.	Lab no 1 (Project / CN Lab)	 Desktop Computers Linux Platform Internet & Networking Setup Compilers (C, Java, Python) IDEs (Visual Studio Code, NetBeans) Projector & Whiteboard
2.	Lab no 2 (Programming Lab)	 Desktop Computers Linux Platform Internet & Networking Setup Compilers (C, Java, Python) Whiteboard
3.	Lab no 4 (Database / DAA Lab)	 Desktop Computers Linux Platform Internet & Networking Setup Compilers (C, Java, Python) Whiteboard
4.	Lab no 5 (OS / COA Lab)	 Desktop Computers Linux Platform Internet & Networking Setup Compilers (C, Java, Python) IDEs (Visual Studio Code, NetBeans) Whiteboard
5.	Lab no 6 (Evaluation Center / Lab)	 Desktop Computers Linux Platform Internet & Networking Setup Compilers (C, Java, Python) Whiteboard
6.	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

SI. No.	Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop				
1	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			
2	BASIC ELECTRICAL ENGG.LAB.	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			

3	BASIC ELECTRICAL ENGG.LAB.	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
4	BASIC ELECTRICAL ENGG.LAB.	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
5		Study of BH Curve of ferromagnetic core.	B-H curve apparatus ME566 CRO Connecting probes
6		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
7		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
8		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
9		Measurement of earth resistance and insulation resistance.	Meggar Insulation testor(0-200)megaohm
10		Verification of Thevenin and Norton's theorem	Thevenin and Norton's trainer KIT Multimeter digital type Patch chords

SI.	Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop					
No.							
1	Power System Lab.	To study the IDMT over-	IDMT OC relay kit.				
		current relay with different	Multimeter				

	PSM & TSM and plot its time-	Patch chords
	current characteristics.	
2	To study the IDMT over-	IDMT over voltage relay kit.
	voltage relay with different	Multimeter-1
	PSM & TSM and plot its time	Patch chords-6
	 voltage characteristics. 	
3	To study the IDMT under-	IDMT under voltage relay kit.
	voltage relay with different	Multimeter-1
	PSM and TSM and plot its	Patch chords-6
	time – current characteristics.	
4	To study the negative	Negative sequence relay kit
	sequence relay.	Multimeter-1
		Patch chords-6
5	To study the operating	%Biased differential relay kit
	characteristics of % biased	Rheostat-2
	differential relay.	Multimeter-1
		Patch chords-6

-		I 6=	
SI.	Name of the Laboratory	List of Experimental Setup in each L	aboratory/Workshop
No.	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		Tes Mu Vol Am	rgy Meter- 1 No. ter-1no Itimeter- 1 No tmeter-1 No meter- 1 No d Box- 1kW	
		function using t	on of a sys transfer fu	e transfer tem (network) nction	Pate	nsfer Function Analyze ch Chord- 10 Nos ltimeter- 1 Nos	r Kit- 1No
		charac		ature voltage J type	Mu	rmocouple Kit-1 Nos Itimeter-1No ch chord-10 Nos	
Sl. No.	Name of the Laborator y	Topic as per BPUT	syllabus	List of Major Equipment		Facilities in each Laboratory	No. of Equipme nt(s)
1	electrical machine 2	Determination of the voltage regulation of alternator by synch impedance method zero power factor (alternation)	of an ronous l and	3-PHASE ALTERNATOR COUPLED WITH MOTOR 3KVA,3 PHASE 413V,4A, EX-160V 1500RP + 5 HP, 220V, 1800 A, 1500 rpm		Experimental Setup FOR THE EXPERIMENT WITH PANAL BOARD AND MEASURING INSTIMENYS	1+1
2	electrical machine 2	Determination of the inverted V curve synchronous motor	es of a	1-SYNCHRONOU MOTOR 3 phase Power H.P 415 V 6 A 50 .Hz	5 - RPM cted	DO	1
3	electrical machine 2	Speed control of phase induction using variable from drives.	motor	1-THREE PHASE SYNCHRONOUS GENE3KVA,3 PHASE 413V,4A, EX-160V 1500RP RATOR 2-D.C SHUNT MOTO5 HP, 220V, 1800 A, 1500 rpm R 3-THREE PHASE INDUCTION MOTOR5HP,,415 6A, 3-PHASE	·M	DO	1+1+1

		T	T		
4	electrical machine 2	Determination of parameters of synchronous machine (a) Positive sequence reactance (b)	1-THREE-PHASE SYNCHRONOUS GENERATOR	DO	
		Negative sequence reactance (c) Zero sequence reactanc	2-D.C SHUNT MOTOR 5 HP , 220V , 1800 A, 1500 rpm		1
5	electrical machine 2	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	
6	electrical machine 2	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
7	electrical machine 2	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
8	electrical machine 2	Measurement of direct and quadrature axis reactance of a salient pole synchronous machine by Slip test.	THREE PHASE SYNCHRONOUS GENERATOR	DO	1
9	electrical machine 2	Measurement of transient and sub transient reactance of a salient pole alternator	THREE PHASE SYNCHRONOUS GENERATOR	DO	1
10	electrical machine 2	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	1
11	electrical machine 2	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

Sl. No	Name of Lhe Laborator		List of Experimental Setup in machine -1 Laboratory							
1	_	Deter	Determination of Efficiency and Voltage Regulation by Open Circuit and Short Circuit test on single							
	LEC:		transfo		-					
	R	Sl.no)	NAME OF M			(ED	SPECIFICATON		
	₽	1	D	SINGLE PHA		NSFORM	1EK	1KVA110/220V		
	₹	APPA s.l	RATUS NAME	S REQUIRED E OF APPARA	TUS	TYPI	7.	RANGE	QUANTITY	
	Ę	n.o	1 1/2 11/11	70171111101	105	1111	_	RETUGE	QOZIIVIIII	
	Z	1	Amme	ter		A.C/I	MI	(0-2A),(0-10A)	2	
	1 La	2	Voltme	eter		A.C		(0-300)V,(0-50)V	2+1	
	bor	3	Single	phase variac		A.C		(0-260V),20A	1	
	ELECTRICAL MACHINE 1 Laboratory	3	Wattm			A.C		2.5A,250V/10A,50V	1	
	₹					71.0		2.571,250 171011,50 1		
		4	Tester,	cutter,plier					1each	
		5	Connec	cting wires				3/22 S.W.G		
2		THEO test. E		Transformer	paramete	ers and l	osses can b	L be found by using the op	en and short circ	cuit
		Sl.ne	o Na	ame of mach	ine			SPECIFICATON		
		1		NGLE PHA		NSFOR	MER(T1)		•	
				ND T2)						
		APPA		US REQUIR	ED					
		s.l	NAM		TYPE		RANGE	QUANTITY		
		n.	APPA	RATUS						
		О								
		1	Amm	eter	A.C		(0-5A)		2	
		2	Voltm	neter	A.C		(0-300V)	(0-500V)	2	
		3	Single	phase	A.C		(0-260)V	(0-260)V,20A		
			variac	-			, , ,	0 200/1/20/1		
		3	Wattr	meter	A.C		(0-600W),250V,15A	3	
		4	Amm	eter	A.C		(0-10)A		1	
		5	Load	box			1KW		1	
		allel o	peratio	on of two sing	 e phase t	transfori	mers			
3		1		test on two s		se trans		TON		
		Sl.no		ame of machin	e		SPECIFICA			
		1		NGLE PHASE RANSFORMER(T1)and (T2))	1KVA 110/	220V		
			"	IN HADE ORIVIER(. 2 / 0110 (12	-,				
			 ^ R	JS REQUIR	FD		<u> </u>			
		s.l		OF APPARATUS		TYPE		RANGE	QUANTITY	
		n.	. */ \II */	J. 7.11 7.11/A103	-				20/11111	
		0								
		1	Ammet	ter		A.C		(0-2A) (0-10A)	2+1	

	2	Voltmete	r	A.C		(0-5	0V),(0-600V)		2	
	3	Wattmet	er	A.C		(0-300W),			2	
4	Stud	y of open	delta and Scott con	nection	of two s	ingle pha	ase transforme	ers		
	Sl.r	·	me of machine			IFICAT				
	1		GLE PHASE		1KVA 1:	10/220V				
		TRA	NSFORMER(T1) AN	D T2)						
	APP	ARATUS	S REQUIRED							
	s.l	NAME		TYF	PE		RANGE		QUANTIT	
	$ _{n}$	APPAR			_		Tu ii vo ii		Y	
	l o									
	1	Ammet	er	A.C			(0-10A)		5	
	2	Voltme	ter	A.C			(0-300V),		1	
	3		hase auto	A.C			(0-260)V,2	0A	1	
		transfor								
	5	Load bo	ΟX	resis	stive		1KW		2	
5	gene	erator.	n of Critical resist	ance an	d critica	ıl speed	from No load	d test o	f D.C shunt	
	Sl.n		ne of machine		SDECIE	FICATO	N			
	1		SHUNT MOTOR	2			V FIELD CURENN	T -2A		
	2	D.C	SHUNT GENERA	ATOR	2KW DC	GENERATO)R			
	APP		REQUIRED							
	s.l n.o	NAME (OF APPARATUS	T	YPE		RANGE		QUANTITY	
	1	Ammete	er	D	.C		(0-1)A		1	
	2	Voltme	ter	D	0.C		(0-300)V		1	
	3	Variable	e field rheostat				100ohm,5A		1	
	3	3point s	tarter				-		1	
	4		tachometer						1	
	5	Field re	gulator				100ohm,5A,3	3kva	1	
	6	Connec	ting wires	C	u		3/22S.W.G,		12	
	7	tester							1	
	8	Cutter,p	lier						1 each	
6			of d.c motor by usir		ture con	trol and	field control r	nethod		
			PECIFICATION							
	Sl.r	10	Name of machin				SPECIFICA			
			D.C SHUNT M	OTOR			3HP,18A,220	OV.1500	RPMp.m	
	ΔPP	ARATIIS	S REQUIRED							
	s.l		E OF APPARATU	JS T	TYPE	RANG	ЭE	QUAN	JTITY	
	n.o								-	
	1	Amme	eter	I	D.C	(0-2)A	1	1		
	2	Voltm	eter	Ι	D.C	(0-300	0)V	1		
	3	Field 1	heostat			100 ol	hm,5A	1		
	3	3point	stator	-				1		

	4	Tachometer					1		
	5	Field regulator			100 0	hm,5A	1		
	6	Connecting wires,	-		-		1 eac	h	
		cutter,plier							
7		nination of parameters of three	pha	se induc	tion mo	otor from No L	oad Te	st and Blocked	
	Rotor T								
8		est of d.c shunt generator							
	Sl.no	Name of machine		SPECII					
	1	D.C SHUNT MOTOR		3 HP DC	MOTOR 2	220V			
	2	D.C SHUNT GENERATOR	R	2KW DC	GENERA	ΓOR			
		APPARATUS REQUIRED							
		NAME OF APPARATUS	TY	PE		RANGE		QUANTITY	
	n.o	A	D			(0.1) A		1	
	1	Ammeter	D.			(0-1)A		1	
	2	Voltmeter	D.	C		(0-300)V		1	
	3	Variable field rheostat				100ohm,5A		1	
	3	3point starter				-		1	
	4	Digital tachometer						1	
	5	Field regulator				100ohm,5A,3	kva	1	
	6	Connecting wires	Cu			3/22S.W.G,		12	
	7	tester						1	
	8	Cutter,plier						1 each	

SI. No.	Name of the Laboratory	List of Experimental Setup	in each Laboratory/Workshop
1	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
2	EEPC2201 ELECTRICAL CIRCUIT ANALYSIS LAB	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
3	EEPC2201 ELECTRICAL CIRCUIT ANALYSIS LAB	Determination of two port network parameters (open circuit and short circuit parameters)	Study trainer kit Digital multimeter Patch chords
4	EEPC2201 ELECTRICAL CIRCUIT ANALYSIS LAB	Determination of two port network parameters(hybrid and transmission parameters).	Study trainer kit Digital multimeter Patch chords
5	EEPC2201 ELECTRICAL CIRCUIT ANALYSIS LAB	Frequency response of low pass and high pass filters.	Passiv filter trainer kit Function Generator Patch chords Digital multimeter Digital storage oscilloscope.

6	EEPC2201 ELECTRICAL	Frequency response of	
	CIRCUIT ANALYSIS LAB	band pass and band	Passiv filter trainer kit
	CINCOTT ANALISIS LAB	elimination filters	Function Generator
		eminiation inters	Patch chords
			1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
			Digital multimeter
			Digital storage oscilloscope
7	EEPC2201 ELECTRICAL	Determination of self-	1 phase two winding T/F / (1KVA, 230/230 V
	CIRCUIT ANALYSIS LAB	inductance, mutual-	Transformer
		inductance and coupling	Connecting wirE
		coefficient of a single-	Voltmeter (0- 300 v)
		phase two winding	Ammeter (0 – 10 A) /
		transformer	Study trainer kit
		representing a coupled	Digital multimeter
		circuit.	Patch chords
8	EEPC2201 ELECTRICAL	Study of series and	Study trainer kit
	CIRCUIT ANALYSIS LAB	parallel connected	AC Signal Generator
		magnetically coupled	Voltmeter
		circuits	Ammeter
			Digital multimeter
			Patch chords
9	EEPC2201 ELECTRICAL	Study of resonance in R-	Study trainer kit
	CIRCUIT ANALYSIS LAB	L-C series circuit using	Function Generator
		oscilloscope.	Digital storage oscilloscope.
			Patch chords
10	EEPC2201 ELECTRICAL	Study of resonance in R-	Study trainer kit
	CIRCUIT ANALYSIS LAB	L-C parallel circuit using	Function Generator
		oscilloscope	Digital storage oscilloscope
		,	Patch chords
			Patch chords

SI.	Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop	
No.			
1	Electric Power	1.Study and Ferranti Effect	
	Transmission and	2 Determination of ABCD Paramet	er using kit.
	Distribution Laboratory	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 co	mputation in transmission line
		9.Determination of ABCD paramet	ers using MATLAB

SI.	Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
No.		
1	POWER ELECTRONICS	Study of the V-I characteristics of SCR, TRIAC, IGBT and MOSFET
	LABORATORY	
2		Study of the cosine controlled triggering circuit
3		To measure the latching and holding current of a SCR
4		Study of the single phase half wave controlled rectifier and semiconverter with R and R-L Load

5	Study of single phase full wave controlled rectifier circuits (Bridge type)R, R-L Load with freewheeling diode
6	Study of the Buck converter
7	Study of the boost converter
8	Study and operate the series inverter and observe the output waveform across resistive load.
9	Study of three phase full wave controlled rectifier circuits (Bridge type)R, R-L Load
10.	Study of UJT triggering and determine V-I characteristics.

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

		UNICATION ENGINEERING		
SI.	Name of the	List of Experimental Setup in each Laboratory/Workshop		
No.	Laboratory			
1.	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.	
		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, EXOR)	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	Microlab Trainer Kit, DSO, Diode1N4007,Resistor,Capacitor	
		value. 10. Implementation of digital circuit using Universal gates.	Microlab Trainer Kit, IC(7400,7402)	
2.	ANALOG ELECTRONIC CIRCUIT LABORATORY	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 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
3.	SIGNALS AND SYSTEMS	1.	Introduction to MATLAB and its	MATLAB 7
	LABORATORY		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.	
		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

		T	
		5. Computation of convolution of	MATLAB 7
		discrete-time aperiodic signals in	
		MATLAB using program logic and inbuilt function.	
		6. Implementation of a difference	MATLAB 7
		equation in MATLAB.	WATLAD /
		7. Generation of frequency response	MATLAB 7
		of an LTI system from its impulse	WATERS 7
		response in MATLAB.	
		8. Computation of discrete-time	MATLAB 7
		Fourier series (DTFS) of	
		fundamental signals in MATLAB.	
		9. Computation of discrete-time	MATLAB 7
		Fourier transform (DTFT) of	
		fundamental signals in MATLAB.	
		10. Frequency domain analysis of	MATLAB 7
		decimation and interpolation of	
		signals in MATLAB.	
	DIGITAL ELECTRONICS	Digital Logic Gates: Investigate	Microlab Trainer Kit,
	LABORATORY	logic behavior of AND, OR, NAND,	IC(7408,7432,7404,7400,7402,7486)
		NOR, EX-OR, EX-NOR, Invert and	
		Buffer gates, use of Universal NAND Gate.	
		NAND Gate.	
		2. Gate-level minimization: Two	Microlab Trainer Kit, IC 7408 &
		level and multi level	7432
		implementation of Boolean	
		functions.	
		3.Combinational Circuits: design,	Microlab Trainer Kit, IC 7408,7486
		assemble and test: adders and	,7432,7404
		subtractors, comparators	
		subtractors, comparators 4.Design and Implementation of code	Microlab Trainer Kit, IC 7486 ,
			Microlab Trainer Kit, IC 7486 , 7447,LT542(Display Device)
		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display	7447,LT542(Display Device)
		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151,
		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411
		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX 6.Design of functions using encoder,	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411 Microlab Trainer Kit, IC 74138,
		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411
		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX 6.Design of functions using encoder, decoder	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411 Microlab Trainer Kit, IC 74138, 7408,7404,7432
		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX 6.Design of functions using encoder, decoder 7.Flip-Flop: assemble, test and	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411 Microlab Trainer Kit, IC 74138, 7408,7404,7432 Microlab Trainer Kit, IC 7400,
		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX 6.Design of functions using encoder, decoder 7.Flip-Flop: assemble, test and investigate operation of SR, D & J-K	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411 Microlab Trainer Kit, IC 74138, 7408,7404,7432
		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX 6.Design of functions using encoder, decoder 7.Flip-Flop: assemble, test and	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411 Microlab Trainer Kit, IC 74138, 7408,7404,7432 Microlab Trainer Kit, IC 7400,
		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX 6.Design of functions using encoder, decoder 7.Flip-Flop: assemble, test and investigate operation of SR, D & J-K flip-flops.	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411 Microlab Trainer Kit, IC 74138, 7408,7404,7432 Microlab Trainer Kit, IC 7400, 7476,7474
		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX 6.Design of functions using encoder, decoder 7.Flip-Flop: assemble, test and investigate operation of SR, D & J-K flip-flops. 8.Shift Registers: Design and	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411 Microlab Trainer Kit, IC 74138, 7408,7404,7432 Microlab Trainer Kit, IC 7400, 7476,7474 Microlab Trainer Kit, IC 7408, 7404,
		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX 6.Design of functions using encoder, decoder 7.Flip-Flop: assemble, test and investigate operation of SR, D & J-K flip-flops. 8.Shift Registers: Design and investigate the operation of all types	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411 Microlab Trainer Kit, IC 74138, 7408,7404,7432 Microlab Trainer Kit, IC 7400, 7476,7474 Microlab Trainer Kit, IC 7408, 7404,
		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX 6.Design of functions using encoder, decoder 7.Flip-Flop: assemble, test and investigate operation of SR, D & J-K flip-flops. 8.Shift Registers: Design and investigate the operation of all types of shift registers with parallel load. 9. Counters: Design, assemble and test various ripple and synchronous	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411 Microlab Trainer Kit, IC 74138, 7408,7404,7432 Microlab Trainer Kit, IC 7400, 7476,7474 Microlab Trainer Kit, IC 7408, 7404, 7432, 7495
		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX 6.Design of functions using encoder, decoder 7.Flip-Flop: assemble, test and investigate operation of SR, D & J-K flip-flops. 8.Shift Registers: Design and investigate the operation of all types of shift registers with parallel load. 9. Counters: Design, assemble and test various ripple and synchronous counters - decimal counter, Binary	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411 Microlab Trainer Kit, IC 74138, 7408,7404,7432 Microlab Trainer Kit, IC 7400, 7476,7474 Microlab Trainer Kit, IC 7408, 7404, 7432, 7495 Microlab Trainer Kit, IC 7476, 7408,
		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX 6.Design of functions using encoder, decoder 7.Flip-Flop: assemble, test and investigate operation of SR, D & J-K flip-flops. 8.Shift Registers: Design and investigate the operation of all types of shift registers with parallel load. 9. Counters: Design, assemble and test various ripple and synchronous counters - decimal counter, Binary counter with parallel load.	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411 Microlab Trainer Kit, IC 74138, 7408,7404,7432 Microlab Trainer Kit, IC 7400, 7476,7474 Microlab Trainer Kit, IC 7408, 7404, 7432, 7495 Microlab Trainer Kit, IC 7476, 7408, 7432
		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX 6.Design of functions using encoder, decoder 7.Flip-Flop: assemble, test and investigate operation of SR, D & J-K flip-flops. 8.Shift Registers: Design and investigate the operation of all types of shift registers with parallel load. 9. Counters: Design, assemble and test various ripple and synchronous counters - decimal counter, Binary counter with parallel load. 10.Design of Binary Multiplier	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411 Microlab Trainer Kit, IC 74138, 7408,7404,7432 Microlab Trainer Kit, IC 7400, 7476,7474 Microlab Trainer Kit, IC 7408, 7404, 7432, 7495 Microlab Trainer Kit, IC 7476, 7408, 7432 Microlab Trainer Kit, IC 7476, 7408,
4.	DIGITAL SYSTEM	4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX 6.Design of functions using encoder, decoder 7.Flip-Flop: assemble, test and investigate operation of SR, D & J-K flip-flops. 8.Shift Registers: Design and investigate the operation of all types of shift registers with parallel load. 9. Counters: Design, assemble and test various ripple and synchronous counters - decimal counter, Binary counter with parallel load. 10.Design of Binary Multiplier Digital Logic Gates: Investigate the	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411 Microlab Trainer Kit, IC 74138, 7408,7404,7432 Microlab Trainer Kit, IC 7400, 7476,7474 Microlab Trainer Kit, IC 7408, 7404, 7432, 7495 Microlab Trainer Kit, IC 7476, 7408, 7432 Microlab Trainer Kit, IC 7408, 7486 Microlab Trainer Kit, IC 7408, 7486 Microlab Trainer Kit,
4.	DIGITAL SYSTEM DESIGN	4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX 6.Design of functions using encoder, decoder 7.Flip-Flop: assemble, test and investigate operation of SR, D & J-K flip-flops. 8.Shift Registers: Design and investigate the operation of all types of shift registers with parallel load. 9. Counters: Design, assemble and test various ripple and synchronous counters - decimal counter, Binary counter with parallel load. 10.Design of Binary Multiplier Digital Logic Gates: Investigate the logic behavior of AND, OR, NAND,	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411 Microlab Trainer Kit, IC 74138, 7408,7404,7432 Microlab Trainer Kit, IC 7400, 7476,7474 Microlab Trainer Kit, IC 7408, 7404, 7432, 7495 Microlab Trainer Kit, IC 7476, 7408, 7432 Microlab Trainer Kit, IC 7476, 7408, 7432
4.		4.Design and Implementation of code converters, gray code to binary and BCD to seven segment display 5.Design and Implementation of a function using MLTX/ DEMUX 6.Design of functions using encoder, decoder 7.Flip-Flop: assemble, test and investigate operation of SR, D & J-K flip-flops. 8.Shift Registers: Design and investigate the operation of all types of shift registers with parallel load. 9. Counters: Design, assemble and test various ripple and synchronous counters - decimal counter, Binary counter with parallel load. 10.Design of Binary Multiplier Digital Logic Gates: Investigate the	7447,LT542(Display Device) Microlab Trainer Kit, IC 74151, 74153, 7408, 7404, 7432,7411 Microlab Trainer Kit, IC 74138, 7408,7404,7432 Microlab Trainer Kit, IC 7400, 7476,7474 Microlab Trainer Kit, IC 7408, 7404, 7432, 7495 Microlab Trainer Kit, IC 7476, 7408, 7432 Microlab Trainer Kit, IC 7408, 7486 Microlab Trainer Kit, IC 7408, 7486 Microlab Trainer Kit,

		of the Universal NAND gate	
		of the Universal NAND gate. Gate-Level Minimization: Implement	Microlah Trainer Kit IC 7409 9
			Microlab Trainer Kit, IC 7408 &
		and verify two-level and multi-level	7432
		Boolean functions.	Main and a late Table 2 (19) 16 7400 7406
		Combinational Circuits: Design,	Microlab Trainer Kit, IC 7408,7486
		assemble, and test adders and	,7432,7404, 7486 ,
		subtractors, code converters, gray	7447,LT542(Display Device)
		code to binary converters, and 7-	
		segment displays.	
		Minimal Gate Designs: Design,	Microlab Trainer Kit, IC 7408 &
		implement, and test a given example	7432
		using (i) NAND gates only, (ii) NOR	
		gates only, and (iii) the minimum	
		number of gates.	
		Multiplexers and De-Multiplexers:	Microlab Trainer Kit, IC 74151,
		Design circuits using multiplexers and	74153, 7408, 7404, 7432,7411
		de-multiplexers.	
		Flip-Flops: Assemble, test, and	Microlab Trainer Kit, IC 7400,
		investigate the operation of SR, D, and	7476,7474
		J-K flip-flops.	
		Shift Registers: Design and analyze the	Microlab Trainer Kit, IC 7408, 7404,
		operation of various types of shift	7432, 7495
		registers with parallel load.	
		Verilog/VHDL Simulation and	Xilinx 8.2
		Implementation : adders and	
		subtractors	
		Verilog/VHDL Simulation and	Xilinx 8.2
		Implementation: SR, D, and J-K flip-	-
		flops	
		Verilog/VHDL Simulation and	Xilinx 8.2
		Implementation: shift registers with	,
		parallel load.	
5.	PRINCIPLES OF	1. Analyse and plot the spectrum of	spectrum analyzer ST 2653, 8010TG,
3.	COMMUNICATION	following signals with aid of spectrum	Digital Storage Oscilloscope,
	SYSTEMS LAB	analyzer: Sine wave, square wave,	Function Generator
	31312IVI3 EAD	triangle wave, saw-tooth wave of	T direction deficiation
		frequencies 1 KHz, 10 KHz, 50 KHz,	
		100KKz and 1 MHz.	
		2. Analyze the process of frequency	FDM Kit ACL 06, Digital Storage
		division multiplexing and frequency	Oscilloscope
		division demultiplexing.	
		3. Study and design of AM modulator	AM modulator and demodulator Kit
		and demodulator. (Full AM, SSB,	
	t contract the contract to the	rana ueniouulatoi. TEUN AIVI. 330.	
1		,	(ACL 01 and ACL 02), Digital Storage
		DSBSC, SSBSC).	Oscilloscope
		DSBSC, SSBSC). 4. Study of FM modulation and	Oscilloscope FM modulation and Demodulation
		DSBSC, SSBSC).	Oscilloscope FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital
		DSBSC, SSBSC). 4. Study of FM modulation and Demodulation Techniques.	Oscilloscope FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital Storage Oscilloscope
		DSBSC, SSBSC). 4. Study of FM modulation and Demodulation Techniques. 5. Study the functioning of PCM and	Oscilloscope FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital Storage Oscilloscope PCM Kit (DCL 03 and DCL 04), DM
		DSBSC, SSBSC). 4. Study of FM modulation and Demodulation Techniques. 5. Study the functioning of PCM and Delta modulator; Demonstrate the	Oscilloscope FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital Storage Oscilloscope PCM Kit (DCL 03 and DCL 04), DM Trainer Kit ST 2105, Digital Storage
		DSBSC, SSBSC). 4. Study of FM modulation and Demodulation Techniques. 5. Study the functioning of PCM and Delta modulator; Demonstrate the process of PCM modulation and Delta	Oscilloscope FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital Storage Oscilloscope PCM Kit (DCL 03 and DCL 04), DM
		DSBSC, SSBSC). 4. Study of FM modulation and Demodulation Techniques. 5. Study the functioning of PCM and Delta modulator; Demonstrate the process of PCM modulation and Delta modulation.	Oscilloscope FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital Storage Oscilloscope PCM Kit (DCL 03 and DCL 04), DM Trainer Kit ST 2105, Digital Storage Oscilloscope
		DSBSC, SSBSC). 4. Study of FM modulation and Demodulation Techniques. 5. Study the functioning of PCM and Delta modulator; Demonstrate the process of PCM modulation and Delta	Oscilloscope FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital Storage Oscilloscope PCM Kit (DCL 03 and DCL 04), DM Trainer Kit ST 2105, Digital Storage Oscilloscope FM modulation and Demodulation
		DSBSC, SSBSC). 4. Study of FM modulation and Demodulation Techniques. 5. Study the functioning of PCM and Delta modulator; Demonstrate the process of PCM modulation and Delta modulation.	Oscilloscope FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital Storage Oscilloscope PCM Kit (DCL 03 and DCL 04), DM Trainer Kit ST 2105, Digital Storage Oscilloscope FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital
		DSBSC, SSBSC). 4. Study of FM modulation and Demodulation Techniques. 5. Study the functioning of PCM and Delta modulator; Demonstrate the process of PCM modulation and Delta modulation. 6. Study of PLL as FM demodulator.	Oscilloscope FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital Storage Oscilloscope PCM Kit (DCL 03 and DCL 04), DM Trainer Kit ST 2105, Digital Storage Oscilloscope FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital Storage Oscilloscope
		DSBSC, SSBSC). 4. Study of FM modulation and Demodulation Techniques. 5. Study the functioning of PCM and Delta modulator; Demonstrate the process of PCM modulation and Delta modulation.	Oscilloscope FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital Storage Oscilloscope PCM Kit (DCL 03 and DCL 04), DM Trainer Kit ST 2105, Digital Storage Oscilloscope FM modulation and Demodulation Kit (ACL 03 and ACL 04), Digital

	I	T	
		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.	
		8. Using MATLAB/ LABVIEW generate	MATLAB 7
		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.	
		9. Using MATLAB/LABVIEW study the	MATLAB 7
		pre-emphasis and de-emphasis.	, , , , , , , , , , , , , , , , , , , ,
		pre emphasis and de emphasis.	
		10. Using MATLAB.LABVIEW study the	MATLAB 7
		Spectrum Analysis of Modulated	WINTERD /
		Signal Using Spectrum Analyzer.	
6.	Microprocessors and	1.Programs for 16-bit arithmetic	8086 Trainer Kit
0.	Microcontrollers	operations using 8086.	SOOD ITAILIEI KIL
	Laboratory	2.Programs for Sorting and Searching	8086 Trainer Kit
	Laboratory	(Using 8086).	3000 Trainer Rit
		3.Programs for String manipulation	8086 Trainer Kit
		operations (Using 8086).	3000 Trainer Kit
		4.Programs for Digital clock and Stop	8086 Trainer Kit
		watch (Using 8086).	
		5.Interfacing ADC and DAC.	8086 Trainer Kit, DAC Kit, ADC Kit
		6.Parallel Communication between	8086 Trainer Kit, 8255 PPI
		two MP Kits using Mode 1 and Mode	·
		2 of 8255.	
		7.Programming and verifying Timer,	8051 Microcontroller Kit
		Interrupts and UART operations in	
		8051	
		8.Serial Communication between two	8086 Microprocessor Kit, 8251 Kit
		MP Kits using 8251.	•
		9.Programming using Arithmetic,	8051 Microcontroller Kit
		Logical and Bit Manipulation	
		instructions of 8051microcontroller.	
		10.Communication between 8051	8051 microcontroller Kit
		10.Communication between 8051 Microcontroller kit and PC.	8051 microcontroller Kit
	Analog and Digital		8051 microcontroller Kit spectrum analyzer ST 2653, 8010TG,
	Analog and Digital Communication	Microcontroller kit and PC.	
		Microcontroller kit and PC. 1.Analyze and plot the spectrum of	spectrum analyzer ST 2653, 8010TG,
	Communication	Microcontroller kit and PC. 1.Analyze and plot the spectrum of following signals with aid of spectrum	spectrum analyzer ST 2653, 8010TG, Digital Storage Oscilloscope,
	Communication	Microcontroller kit and PC. 1.Analyze and plot the spectrum of following signals with aid of spectrum analyzer:	spectrum analyzer ST 2653, 8010TG, Digital Storage Oscilloscope,
	Communication	Microcontroller kit and PC. 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	spectrum analyzer ST 2653, 8010TG, Digital Storage Oscilloscope,
	Communication	Microcontroller kit and PC. 1.Analyze and plot the spectrum of following signals with aid of spectrum analyzer: Sine wave, square wave, triangle	spectrum analyzer ST 2653, 8010TG, Digital Storage Oscilloscope,
	Communication	Microcontroller kit and PC. 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
	Communication	Microcontroller kit and PC. 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. 2.Analyze the process of frequency	spectrum analyzer ST 2653, 8010TG, Digital Storage Oscilloscope, Function Generator FDM Kit ACL 06, Digital Storage
	Communication	Microcontroller kit and PC. 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. 2.Analyze the process of frequency division multiplexing and frequency	spectrum analyzer ST 2653, 8010TG, Digital Storage Oscilloscope, Function Generator
	Communication	Microcontroller kit and PC. 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. 2.Analyze the process of frequency division multiplexing and frequency division demultiplexing.	spectrum analyzer ST 2653, 8010TG, Digital Storage Oscilloscope, Function Generator FDM Kit ACL 06, Digital Storage
	Communication	Microcontroller kit and PC. 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. 2. Analyze the process of frequency division multiplexing and frequency division demultiplexing. 3. Study and design of AM modulator	spectrum analyzer ST 2653, 8010TG, Digital Storage Oscilloscope, Function Generator FDM Kit ACL 06, Digital Storage Oscilloscope AM modulator and demodulator Kit
	Communication	Microcontroller kit and PC. 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. 2.Analyze the process of frequency division multiplexing and frequency division demultiplexing. 3.Study and design of AM modulator and demodulator. (Full AM, SSB,	spectrum analyzer ST 2653, 8010TG, Digital Storage Oscilloscope, Function Generator FDM Kit ACL 06, Digital Storage Oscilloscope AM modulator and demodulator Kit (ACL 01 and ACL 02), Digital Storage
	Communication	Microcontroller kit and PC. 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. 2. Analyze the process of frequency division multiplexing and frequency division demultiplexing. 3. Study and design of AM modulator	spectrum analyzer ST 2653, 8010TG, Digital Storage Oscilloscope, Function Generator FDM Kit ACL 06, Digital Storage Oscilloscope AM modulator and demodulator Kit

	Demodulation Techniques.	Kit (ACL 03 and ACL 04), Digital
	Bernodulation recrimques.	Storage Oscilloscope
	5. Using MATLAB/ LABVIEW generate	MATLAB 7
	a carrier and a modulating signal.	With the F
	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.	
	6. Using MATLAB/ LABVIEW generate	MATLAB 7
	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.	
	7. Study the functioning of PCM and	PCM Kit (DCL 03 and DCL 04), DM
	Delta modulator; Demonstrate the	Trainer Kit ST 2105, Digital Storage
	process of PCM modulation and Delta	Oscilloscope
	modulation.	
	8.Generation and reception of	Modulator and Demodulator
	different types of signals like ASK, PSK,	Trainer Kit-ST2106, ST2107, Digital
	FSK.	Storage Oscilloscope
	9. Experimentally compare different	Modulator and Demodulator
	forms of BPSK, QPSK, and OQPSK and	Trainer Kit-ST2106, ST2107, Digital
	analyze their Spectrum with spectrum	Storage Oscilloscope
	analyzer.	
	10. To transmit PC data through	Satellite Uplink transmitter, satellite
	satellite link using a satellite	downlink receiver and satellite link
	communication demonstration unit.	emulator,RHCP &LHCP axial mode
		helix antennas, Antenna stands with
		connecting cables reflecting sheet
Digital Signal	1.Familiarization with the architecture	DSP kit TMS 320C5X, VI
Processing Laboratory	of a standard DSP kit (Preferably TMS	Microsystem Private LTD.
	, , ,	Which osystem Fill ate Lib.
	320C6XXX DSP kit of Texas	
	Instruments)	
	2.Generation of various types of	MATLAB 7, DSP kit TMS 320C5X, VI
	waveforms (sine, cosine, square,	MIcrosystem Private LTD.
	triangular etc.) using	
	MATLAB and DSP kit.	
	3.Linear convolution of sequences	MATLAB 7, DSP kit TMS 320C5X, VI
	(without using the inbuilt conv.	MIcrosystem Private LTD.
	function in	
	MATLAB) and verification of linear	
	convolution using DSP kit.	
	4. Circular convolution of two	MATLAB 7, DSP kit TMS 320C5X, VI
	sequences and comparison of the	MIcrosystem Private LTD.
	result with the result	
	obtained from linear convolution	
	using MATLAB and DSP kit.	
	5. (i) Computation of autocorrelation	MATLAB 7, DSP kit TMS 320C5X, VI
	of a sequence, cross correlation of	MIcrosystem Private LTD.
	two sequences using MATLAB.	
	the sequences using MIATEAD.	

	(ii) Computation of the power spectral	
	density of a sequence using MATLAB also implementing the same in a DSP	
	kit.	
	6. Finding the convolution of a	MATLAB 7, DSP kit TMS 320C5X, VI
	periodic sequence using DFT and IDFT	MIcrosystem Private LTD.
	in MATLAB.	
	7. (i) Implementation of FFT algorithm	MATLAB 7, DSP kit TMS 320C5X, VI
	by decimation in time and decimation	MIcrosystem Private LTD.
	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.	
	9.Design and implementation of IIR	MATLAB 7, DSP kit TMS 320C5X, VI
	(lowpass and highpass) Filters	Microsystem Private LTD.
	(Butterworth and Chebyshev) in	who osystem i mate 215.
	MATLAB and DSP kit.	
	10. (i) Convolution of long duration	MATLAB 7, DSP kit TMS 320C5X, VI
	sequences using overlap add, overlap	MIcrosystem Private LTD.
	save using MATLAB.	
	(ii) Implementation of noise	
	cancellation using adaptive filters on a	
	DSP kit.	
Microwave	1.Reflex Klystron Characteristics	Microwave Test Bench
IVIICIOWAVC		Wherewave rest belief
Engineering Lab	2. Gun Diode Characteristics	Microwave Test Bench
	Gun Diode Characteristics Directional Coupler Characteristics Measurement of Voltage Standing	Microwave Test Bench
	Gun Diode Characteristics Directional Coupler Characteristics Measurement of Voltage Standing Wave Ratio.	Microwave Test Bench Microwave Test Bench Microwave Test Bench
	 Gun Diode Characteristics Directional Coupler Characteristics Measurement of Voltage Standing Wave Ratio. Radiation Pattern Measurement of 	Microwave Test Bench Microwave Test Bench
	2. Gun Diode Characteristics 3. Directional Coupler Characteristics 4. Measurement of Voltage Standing Wave Ratio. 5. Radiation Pattern Measurement of a Horn Antenna	Microwave Test Bench Microwave Test Bench Microwave Test Bench Microwave Test Bench
	 Gun Diode Characteristics Directional Coupler Characteristics Measurement of Voltage Standing Wave Ratio. Radiation Pattern Measurement of a Horn Antenna Impedance, Wavelength and 	Microwave Test Bench Microwave Test Bench Microwave Test Bench
	 Gun Diode Characteristics Directional Coupler Characteristics Measurement of Voltage Standing Wave Ratio. Radiation Pattern Measurement of a Horn Antenna Impedance, Wavelength and Frequency Measurement. 	Microwave Test Bench
	 Gun Diode Characteristics Directional Coupler Characteristics Measurement of Voltage Standing Wave Ratio. Radiation Pattern Measurement of a Horn Antenna Impedance, Wavelength and 	Microwave Test Bench Microwave Test Bench Microwave Test Bench Microwave Test Bench
	2. Gun Diode Characteristics 3. Directional Coupler Characteristics 4. Measurement of Voltage Standing Wave Ratio. 5. Radiation Pattern Measurement of a Horn Antenna 6. Impedance, Wavelength and Frequency Measurement. 7. Determination of Polarization of	Microwave Test Bench
	 Gun Diode Characteristics Directional Coupler Characteristics Measurement of Voltage Standing Wave Ratio. Radiation Pattern Measurement of a Horn Antenna Impedance, Wavelength and Frequency Measurement. Determination of Polarization of Horn antenna. 	Microwave Test Bench
	 Gun Diode Characteristics Directional Coupler Characteristics Measurement of Voltage Standing Wave Ratio. Radiation Pattern Measurement of a Horn Antenna Impedance, Wavelength and Frequency Measurement. Determination of Polarization of Horn antenna. Measurement of Scattering Parameters. Coupling Measurement of H-plane, 	Microwave Test Bench
	 Gun Diode Characteristics Directional Coupler Characteristics Measurement of Voltage Standing Wave Ratio. Radiation Pattern Measurement of a Horn Antenna Impedance, Wavelength and Frequency Measurement. Determination of Polarization of Horn antenna. Measurement of Scattering Parameters. Coupling Measurement of H-plane, E-Plane and Magic Tee junctions. 	Microwave Test Bench
	 Gun Diode Characteristics Directional Coupler Characteristics Measurement of Voltage Standing Wave Ratio. Radiation Pattern Measurement of a Horn Antenna Impedance, Wavelength and Frequency Measurement. Determination of Polarization of Horn antenna. Measurement of Scattering Parameters. Coupling Measurement of H-plane, E-Plane and Magic Tee junctions. Measurement of Dielectric 	Microwave Test Bench
Engineering Lab	 2. Gun Diode Characteristics 3. Directional Coupler Characteristics 4. Measurement of Voltage Standing Wave Ratio. 5. Radiation Pattern Measurement of a Horn Antenna 6. Impedance, Wavelength and Frequency Measurement. 7. Determination of Polarization of Horn antenna. 8. Measurement of Scattering Parameters. 9. Coupling Measurement of H-plane, E-Plane and Magic Tee junctions. 10. Measurement of Dielectric Constant. 	Microwave Test Bench
Engineering Lab Wireless	 Gun Diode Characteristics Directional Coupler Characteristics Measurement of Voltage Standing Wave Ratio. Radiation Pattern Measurement of a Horn Antenna Impedance, Wavelength and Frequency Measurement. Determination of Polarization of Horn antenna. Measurement of Scattering Parameters. Coupling Measurement of H-plane, E-Plane and Magic Tee junctions. Measurement of Dielectric Constant. Evaluate the impact of path loss 	Microwave Test Bench
Engineering Lab	 2. Gun Diode Characteristics 3. Directional Coupler Characteristics 4. Measurement of Voltage Standing Wave Ratio. 5. Radiation Pattern Measurement of a Horn Antenna 6. Impedance, Wavelength and Frequency Measurement. 7. Determination of Polarization of Horn antenna. 8. Measurement of Scattering Parameters. 9. Coupling Measurement of H-plane, E-Plane and Magic Tee junctions. 10. Measurement of Dielectric Constant. 1. Evaluate the impact of path loss and shadowing in estimation of 	Microwave Test Bench
Engineering Lab Wireless	 2. Gun Diode Characteristics 3. Directional Coupler Characteristics 4. Measurement of Voltage Standing Wave Ratio. 5. Radiation Pattern Measurement of a Horn Antenna 6. Impedance, Wavelength and Frequency Measurement. 7. Determination of Polarization of Horn antenna. 8. Measurement of Scattering Parameters. 9. Coupling Measurement of H-plane, E-Plane and Magic Tee junctions. 10. Measurement of Dielectric Constant. 1. Evaluate the impact of path loss and shadowing in estimation of received signal 	Microwave Test Bench
Engineering Lab Wireless	 2. Gun Diode Characteristics 3. Directional Coupler Characteristics 4. Measurement of Voltage Standing Wave Ratio. 5. Radiation Pattern Measurement of a Horn Antenna 6. Impedance, Wavelength and Frequency Measurement. 7. Determination of Polarization of Horn antenna. 8. Measurement of Scattering Parameters. 9. Coupling Measurement of H-plane, E-Plane and Magic Tee junctions. 10. Measurement of Dielectric Constant. 1. Evaluate the impact of path loss and shadowing in estimation of received signal power in mobile cellular 	Microwave Test Bench
Engineering Lab Wireless	 2. Gun Diode Characteristics 3. Directional Coupler Characteristics 4. Measurement of Voltage Standing Wave Ratio. 5. Radiation Pattern Measurement of a Horn Antenna 6. Impedance, Wavelength and Frequency Measurement. 7. Determination of Polarization of Horn antenna. 8. Measurement of Scattering Parameters. 9. Coupling Measurement of H-plane, E-Plane and Magic Tee junctions. 10. Measurement of Dielectric Constant. 1. Evaluate the impact of path loss and shadowing in estimation of received signal 	Microwave Test Bench
Engineering Lab Wireless	 2. Gun Diode Characteristics 3. Directional Coupler Characteristics 4. Measurement of Voltage Standing Wave Ratio. 5. Radiation Pattern Measurement of a Horn Antenna 6. Impedance, Wavelength and Frequency Measurement. 7. Determination of Polarization of Horn antenna. 8. Measurement of Scattering Parameters. 9. Coupling Measurement of H-plane, E-Plane and Magic Tee junctions. 10. Measurement of Dielectric Constant. 1. Evaluate the impact of path loss and shadowing in estimation of received signal power in mobile cellular communication using fading channel 	Microwave Test Bench
Engineering Lab Wireless	 2. Gun Diode Characteristics 3. Directional Coupler Characteristics 4. Measurement of Voltage Standing Wave Ratio. 5. Radiation Pattern Measurement of a Horn Antenna 6. Impedance, Wavelength and Frequency Measurement. 7. Determination of Polarization of Horn antenna. 8. Measurement of Scattering Parameters. 9. Coupling Measurement of H-plane, E-Plane and Magic Tee junctions. 10. Measurement of Dielectric Constant. 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. 2. Calculate the boundary coverage 	Microwave Test Bench
Engineering Lab Wireless	 2. Gun Diode Characteristics 3. Directional Coupler Characteristics 4. Measurement of Voltage Standing Wave Ratio. 5. Radiation Pattern Measurement of a Horn Antenna 6. Impedance, Wavelength and Frequency Measurement. 7. Determination of Polarization of Horn antenna. 8. Measurement of Scattering Parameters. 9. Coupling Measurement of H-plane, E-Plane and Magic Tee junctions. 10. Measurement of Dielectric Constant. 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. 	Microwave Test Bench Virtual Lab

communication 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. 4. Estimate the impact of sectoring in increasing cellular system capacity using fading channel mobile communication virtual lab. 5. Examine the impact of co-channel interference on the value of SIR in mobile cellular communication using fading channel mobile communication using fading channel mobile communication virtual lab. 6. Setting up of LTE 2x2 MIMO system Virtual Lab	
received power levels for hand-off in case of mobile cellular communication using fading channel mobile communication virtual lab. 4. Estimate the impact of sectoring in increasing cellular system capacity using fading channel mobile communication 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.	
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communication virtual lab. 4. Estimate the impact of sectoring in increasing cellular system capacity using fading channel mobile communication 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.	
4. Estimate the impact of sectoring in increasing cellular system capacity using fading channel mobile communication 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.	
increasing cellular system capacity using fading channel mobile communication 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.	
using fading channel mobile communication 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.	
communication 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.	
5. Examine the impact of co-channel interference on the value of SIR in mobile cellular communication using fading channel mobile communication virtual lab.	
interference on the value of SIR in mobile cellular communication using fading channel mobile communication virtual lab.	
mobile cellular communication using fading channel mobile communication virtual lab.	
fading channel mobile communication virtual lab.	
fading channel mobile communication virtual lab.	
virtual lab.	
0. Setting up of LTL 2x2 ivinio system Virtual Lab	
for establishing two way	
for establishing two way	
communication.	
7.Study of pure ALOHA and slotted Virtual Lab	
ALOHA protocols for WLAN System.	
8. Configure ZigBee module as an end Virtual Lab	
device and, set up a communication	
link with two ZigBee modules.	
9. Study of RFID system and its Virtual Lab	
applications.	
applications.	
10. Using IE3D. design a rectangular Virtual Lab	
micro strip patch antenna for inset	
feed for operating frequency of 1.88	
GHz, relative permittivity of 4.4 and	
length of 31 mils.	
COMMUNICATION 1.Analyse and plot the spectrum of spectrum analyzer ST 2653, 801	.0TG,
ENGINEERING LAB following signals with aid of spectrum Digital Storage Oscilloscope,	
analyser:Sine wave, square wave, Function Generator	
triangle wave, saw-tooth wave of	
frequencies 1 KHz, 10 KHz, 50 KHz,	
100KKz and 1 MHz.	
2. Analyse the process of frequency FDM Kit ACL 06, Digital Storage	
division multiplexing and frequency Oscilloscope	
division demultiplexing.	
3. Study and design of AM modulator AM modulator and demodulator	r Kit
and demodulator. (Full AM, SSB, (ACL 01 and ACL 02), Digital Sto	
DSBSC, SBSC) Oscilloscope	0-
4. Study of FM modulation and FM modulation and Demodulat	ion
Demodulation Techniques. Kit (ACL 03 and ACL 04), Digital	.5.1
Storage Oscilloscope	
5. Observer the process of PAM, Kit DCL 06, Digital Storage	
quantization and determination of Oscilloscope	
quantization noise. Multiplex 2-4	
PAM/ PPM and PWM signals.	
6. Using MATLAB/ LABVIEW generate MATLAB 7	
a carrier and a modulating signal.	
Modulate thecarrier using AM. Show	
the waveform in time domain and	
analyze its frequencyspectrum.	

Barran Harris Latin Commeditation	
Repeat the simulation for modulating	
signal being square, triangular and	
other forms waveform.	
7. Using MATLAB/ LABVIEW generate	MATLAB 7
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.	
8. Design a receiver to demodulate	Microlab Trainer Kit
and receive the signal from AM radio	
station.	
9. Design a receiver to demodulate	Microlab Trainer Kit
and receive the signal from the local	
FM radio	
station.	

ELECTRICAL AND ELECTRONICS ENGINEERING

SI.	Name of the	List of Experimental Setup in each Laboratory/Workshop		
No.	Laboratory			
1.	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)	
2.	ANALOG & DIGITAL ELECTRONIC CIRCUIT	Design and simulate voltage divider biasing circuits using BJT-CE configuration and compare the results.	Microlab Trainer Kit, BJT 547, Digital Multimeter	
	LABORATORY	Design and simulate of voltage divider	Microlab Trainer Kit, FET BFW10,	

	(EOPC2202)	biasing circuits using JFET-CS configuration.	Digital Multimeter
	(201 02202)	Design and simulate of Self-biasing circuits	Microlab Trainer Kit, MOSFET
		of MOSFET.	2N7000, Digital Multimeter
		Determine the frequency response of BJT	Microlab Trainer Kit, Function
		CE- amplifier: low frequency, Mid-	Generator, DSO, Digital
		frequency and high frequency response.	Multimeter, BJT 547
		Determine the frequency response of JFET	Microlab Trainer Kit, Function
		CS- amplifier Circuit.	Generator, DSO, Digital
			Multimeter, FET BFW10
		Design of Binary Multiplier.	Microlab Trainer Kit, IC 7408, 7486
		Design and implementation of code	Microlab Trainer Kit, IC 7486,
		converters gray to binary and BCD to seven segment display.	7447, LT542(Display Device)
		Design and implementation of a function	Microlab Trainer Kit, IC 74151,
		using Multiplexer (MUX) and De-	74153, 7408, 7404, 7432,7411
		multiplexer (DEMUX).	, 1133, 7 163, 7 16 1, 7 132, 7 111
		Design of function using decoder and	Microlab Trainer Kit, IC 74138,
		encoders.	7408,7404,7432
		Flip-Flop: assemble, test and investigate	Microlab Trainer Kit, IC 7400,
		operations of S-R, D and J-K flip-flops.	7476,7474.
3.	SIGNALS AND	Introduction to MATLAB and its basic	PC with windows (XP/ 98/2000),
	SYSTEMS	toolboxes required for the analysis of	MATLAB 7,
	LABORATORY	signals and systems. To study use variables,	
	(EOPC2203)	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.	
		Generation of basic continuous-time	PC with windows (XP/ 98/2000),
		periodic signals, i.e., sine, cosine, square,	MATLAB 7
		etc. and plot its results in MATLAB.	
		Generation of basic continuous-time	PC with windows (XP/ 98/2000),
		aperiodic signals, i.e., ramp, exponential,	MATLAB 7
		rectangular pulse, step, impulse, etc. and	WWW.E.G.
		plot its results in MATLAB.	
		Computation of convolution of discrete-	PC with windows (XP/ 98/2000),
		time periodic signals in MATLAB using	MATLAB 7
		program logic and inbuilt function.	IVIATEAD /
		Computation of convolution of discrete-	PC with windows (XP/ 98/2000),
		time aperiodic signals in MATLAB using	MATLAB 7
		program logic and inbuilt function.	WATERD /
			PC with windows (XP/ 98/2000),
		Computation of auto correlation of	, , , , , , , , , , , , , , , , , , , ,
		sequence x(n) and y(n) verify the property	MATLAB 7
		in MATLAB.	DC with winds at AVD (00 (000)
		Computation of Cross correlation of	PC with windows (XP/ 98/2000),
		sequence x(n) and y(n) verify the property	MATLAB 7
		in MATLAB.	DC with windows (VD / 09 /2000)
		Generation of frequency response of an LTI	PC with windows (XP/ 98/2000),
		system from its impulse response in	MATLAB 7
		MATLAB.	DC with windows (VD / 00 /2000)
		Implementation of a difference equation in MATLAB.	PC with windows (XP/ 98/2000), MATLAB 7
		Computation of discrete-time Fourier	PC with windows (XP/ 98/2000),
		transform (DTFT) of fundamental signals in	MATLAB 7
		transform (DTFT) of fundamental signals in	IVII (I LAD /

		MATLAB.	
4.	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

1		Determination of grain size.	Working
2		Determination of clay content, and permeability.	Working
3		Preparation of pattern and foundry practices.	Working
4		Practice and preparation of jobs through arc welding.	Working
5		Practice and preparation of jobs through oxyacetylene welding.	Working
6	Basic Manufacturing	Determination of strength of brazed and solder joints	Not-working
7	Process (BMP)/ Workshop	Practice and preparation of jobs using sheet metal forming processes like forming and deep drawing.	Not-working
8		Demonstration of different rolling mills.	Working
9		Demonstration of Extrusion processes.	Working

Sl. No.	Name of the Laboratory	List of Experimental Setup in each Laboratory / Workshop
1	Design of Machine	Design Of Riveted Joint
	Elements Lab	
2	Design of Machine	Design Of Welded Joint.
	Elements Lab	
3	Design of Machine	Design Of Cotter Joint.
	Elements Lab	
4	Design of Machine	Design Of Knuckle Joint.
	Elements Lab	
5	Design of Machine	Design Of Shaft.
	Elements Lab	
6	Design of Machine	Design Of Flange Coupling.
	Elements Lab	
7	Design of Machine	Design Of Helical Spring.

	Elements Lab		
8	Design of Machine	Design Of Roller Bearing.	
	Elements Lab		
1	Design of Machine	Design of riveted joint	
	Elements Lab		
2	Design of Machine	Design of welded joint.	
	Elements Lab		
3	Design of Machine	Design of cotter joint.	
	Elements Lab		
4	Design of Machine	Design of knuckle joint.	
	Elements Lab		
5	Design of Machine	Design of shaft.	
	Elements Lab		
6	Design of Machine	Design of flexible coupling.	
	Elements Lab		
7	Design of Machine	Design of rigid coupling.	
	Elements Lab		
8	Design of Machine	Design of helical spring.	
	Elements Lab		
9	Design of Machine	Design of journal bearing.	
	Elements Lab		
10	Design of Machine	Design of elements of roller bearing.	
	Elements Lab		

Sl. No.	Name of the Laboratory	List of Experimental Setup in each Laboratory / Workshop	
1	Fluid Mechanics &Fluid Machinery	Calibration of venturimeter	Working
2	Fluid Mechanics &Fluid Machinery	Verification of Bernoulli's theorem	Working
3	Fluid Mechanics &Fluid Machinery	Performance test on centrifugal pumps	Working
4	Fluid Mechanics &Fluid Machinery	Performance test on reciprocating pumps	Working
5	Fluid Mechanics &Fluid Machinery	Determination of pipe flow losses.	Virtual Testing
6	Fluid Mechanics &Fluid Machinery	Pressure measurement with pitot static tube	Virtual Testing
7	Fluid Mechanics &Fluid Machinery	Flow visualization by Heleshaw apparatus	Virtual Testing
8	Fluid Mechanics &Fluid Machinery	Determination of Viscosity of a Fluid	Virtual Testing

Sl. No.	Name of the Laboratory	List of Experimental Setup in each Laboratory / Workshop	
1	Heat transfer	Determination of Thermal conductivity of	Working
	Lab(RME5C2003)	composite slab	
2	Heat transfer	Determination of heat transfer	Not Working
	Lab(RME5C2003)	coefficient in natural/forced convention	
3	Heat transfer	Determination of surface emissivity	Working
	Lab(RME5C2003)		
4	Heat transfer	Performance test on parallel flow and	Working
	Lab(RME5C2003)	counter flow heat exchanger	
5	Heat transfer	Efficiency and effectiveness of fins	Working
	Lab(RME5C2003)	(Natural / Forced convection)	
6	Heat transfer	Determination of Critical heat flux	Not Working
	Lab(RME5C2003)		

	1	1 1 1 1 1 1 1	
		during boiling heat transfer.	
7	Heat transfer	Verification of Stefan Boltzman's law.	Working
	Lab(RME5C2003)		
Sl. No.	Name of the Laboratory	, , , , , , , , , , , , , , , , , , , ,	Workshop
1	Machine Drawing and Solid Modelling Lab	Sketcher workbench	Virtual
2	Machine Drawing and Solid Modelling Lab	Basic Solid part modelling	Virtual
3	Machine Drawing and Solid Modelling Lab	Advance Solid Part Modeling	Virtual
4	Machine Drawing and Solid Modelling Lab	Assembly design	Virtual
5	Machine Drawing and Solid Modelling Lab	Drafting workbench	Virtual
	Solid Wodelling Edb		
Sl. No.	Name of the Laboratory	List of Experimental Setup in each Laboratory /	Workshop
1	MACHINES AND	Determination of gyroscopic couple	Not Working
1	MECHANISMS LAB	using gyroscopic test rig	NOT WORKING
	(MEPC2207)	using gyroscopic test rig	
2	MACHINES AND	Experiment on static and dynamic	Working
2	MECHANISMS LAB	balancing apparatus	VVOIKING
	(MEPC2207)		
3	MACHINES AND	EXPERIMENT ON SCREW JACK	Working
3	MECHANISMS LAB	EXILEMINENT ON SCHEW SACK	Working
	(MEPC2207)		
4	MACHINES AND	DETERMINATION OF MOMENT OF INERTIA	Morking
4		OF A FLY WHEEL	Working
	MECHANISMS LAB	OF ATEL WHELE	
	(MEPC2207)		
61. 11		I 65	· · · · · · · · · · · · · · · · · · ·
Sl. No.	Name of the Laboratory	List of Experimental Setup in each Laboratory /	
1	MM Laboratory	Design of any one working model	Virtual Testing
		related to Kinematics & Dynamics	
		of Machines, Module I &II.	
2	MM Laboratory	Design of any one working model	Virtual Testing
		related to Kinematics & Dynamics	
		of Machines, Module III,IV& V.	
3	MM Laboratory	Study of interference and	Virtual Testing
		undercutting for gear drives.	
4	MM Laboratory	Determination of Moment of	Working
		Inertia of a fly wheel.	
5	MM Laboratory	Performance characteristics of a	Virtual Testing
		spring loaded governor.	
6	MM Laboratory	Experiment/Study on clutches.	Virtual Testing
7		Experiment on static and dynamic	Working
•	IVIIVI Laboratory		110.11116
	MM Laboratory	balancing apparatus.	
8	MM Laboratory		Working
8	·	balancing apparatus.	Working
8 Sl. No.	·	balancing apparatus. Experiment/Study on Screw Jack.	Working
	MM Laboratory	balancing apparatus. Experiment/Study on Screw Jack. List of Experimental Setup in each Laboratory /	
Sl. No.	MM Laboratory Name of the Laboratory	balancing apparatus. Experiment/Study on Screw Jack. List of Experimental Setup in each Laboratory / Job on lathe with tapper turning,	Workshop
Sl. No.	MM Laboratory Name of the Laboratory	balancing apparatus. Experiment/Study on Screw Jack. List of Experimental Setup in each Laboratory / Job on lathe with tapper turning, thread cutting, knurling and groove	Workshop
Sl. No.	MM Laboratory Name of the Laboratory	balancing apparatus. Experiment/Study on Screw Jack. List of Experimental Setup in each Laboratory / Job on lathe with tapper turning, thread cutting, knurling and groove cutting (3 experiments).	Workshop
Sl. No.	MM Laboratory Name of the Laboratory MST Laboratory	balancing apparatus. Experiment/Study on Screw Jack. List of Experimental Setup in each Laboratory / Job on lathe with tapper turning, thread cutting, knurling and groove	Workshop Working

		slotting machine.	
4	MST Laboratory	Working with surface and cylindrical	Working
		grinding. (Only surface grinding)	
5	MST Laboratory	Determination of cutting force using	Working
		Lathe tool dynamometer.	
6	MST Laboratory	Determination of cutting force in	Working
		drilling using drill tool dynamometer.	
7	MST Laboratory	Study of Non-traditional machining	Virtual Testing
		processes.(USM, AJM, EDM, ECM)	

Sl. No.	Name of the Laboratory	List of Experimental Setup in each Laboratory /	Workshop
1	Material Testing Lab	Tensile Strength of materials by Universal	Working
		Testing Machine	
2	Material Testing Lab	Compressive Strength of materials by	Working
		Universal Testing Machine	
3	Material Testing Lab	Bending Strength of materials by Universal	Working
		Testing Machine	
4	Material Testing Lab	Shear Test in Universal Testing Machine	Working
5	Material Testing Lab	Rigidity Modulus of material	Working
6	Material Testing Lab	Fatigue Strength of material	Working
7	Material Testing Lab	Spring Constant under Tension And	Working
		Compression	
8	Material Testing Lab	Load measurement using load indicator, Load	Virtual Testing
		Cells	
9	Material Testing Lab	Strain measurement using strain gauge	Working
10	Material Testing Lab	Stress measurement using strain rosette	Working

Sl. No.	Name of the Laboratory	List of Experimental Setup in each Laboratory /	Workshop
1	Thermal Engineering Lab	Study of Cut-Sections of 2 stroke and 4 stroke Diesel Engine/Petrol engine.	Working
2	Thermal Engineering Lab	Study of steam power plant.	Virtual Testing
3	Thermal Engineering Lab	Study of refrigeration system.	Working
4	Thermal Engineering Lab	Study of gas turbine power plant.	Virtual Testing
5	Thermal Engineering Lab	Performance analysis of reciprocating air-compressor.	Working
6	Thermal Engineering Lab	Performance analysis of Centrifugal / Axial Flow compressor.	Virtual Testing
7	Thermal Engineering Lab	Determination of performance characteristics of gear pump.	Virtual Testing
8	Thermal Engineering Lab	Load test on 4-stroke single cylinder C.I. engine.	Working
9	Thermal Engineering Lab	Load test on 4-stroke single cylinder S.I. engine.	Virtual Testing
10	Thermal Engineering Lab	Morse Test on multi-cylinder S.I. or C.I. engine	Virtual Testing

CIVIL ENGINEERING

SI.	Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
No.		
01	BUILDING DRAWING PRACTICE	Understanding drawing requirements and symbols in building drawing as per IS 962:1967
02	BUILDING DRAWING	Detailing of different building components: footing, masonry, stair case,

	PRACTICE	and arches, etc
03	BUILDING DRAWING	Development of plan, elevation, side view of 2/3 bed room
	PRACTICE	residential/office building.
04	BUILDING DRAWING	Detailing RCC beams, columns and slabs, and preparing bar bending
	PRACTICE	schedule.
05	BUILDING DRAWING	Detailing of steel roof trusses and connections.
	PRACTICE	
06	BUILDING DRAWING	Any live project on drawing and detailing of Residential/Institutional
	PRACTICE	building.

SI.	Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
No.		
01	COMPUTER AIDED DESIGN	Introduction to MATLAB and Excel
02	COMPUTER AIDED DESIGN	Plotting of Shear force and bending moment diagram of beam using
		MATLAB
03	COMPUTER AIDED DESIGN	Drawing of Shear force and bending moment diagram of frames
		using MATLAB
04	COMPUTER AIDED DESIGN	Plotting of Shear force and bending moment diagram of arches
		using MATLAB
05	COMPUTER AIDED DESIGN	Calculation and plotting of ILDsof beam using MATLAB
06	COMPUTER AIDED DESIGN	Calculation and plotting of ILDs of frames using MATLAB
07	COMPUTER AIDED DESIGN	Calculation and plotting of ILDs of arches using MATLAB
08	COMPUTER AIDED DESIGN	Plotting of stress contours using MATLAB
09	COMPUTER AIDED DESIGN	Introduction to Graphic Software: Basic commands, plotting of
		graphs and data analysis.

SI. No.	Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
01	GEOTECHNICAL ENGINEERING LABORATORY	Determination of specific gravity of soil grains
02	GEOTECHNICAL ENGINEERING LABORATORY	Determination of grain size distribution of soil: (a) sieve analysis; (b) Hydrometer/pipette test
03	GEOTECHNICAL ENGINEERING LABORATORY	Determination of Atterberg limits of soil: (a) liquid limit, (b) plastic limit, (c) shrinkage limit
04	GEOTECHNICAL ENGINEERING LABORATORY	Measurement of unit weight of soil in the field: (a) Core cutter method, (b) Sand replacement method
05	GEOTECHNICAL ENGINEERING LABORATORY	Determination of Density-water content relationship of soil: Proctor compaction tests
06	GEOTECHNICAL ENGINEERING LABORATORY	Determination of relative density of granular soil
07	GEOTECHNICAL ENGINEERING LABORATORY	Determination of shear strength of soil: (a) Direct shear test (b) Tri-axial shear test, (c) Unconfined compression test (d) Vane shear test
08	GEOTECHNICAL ENGINEERING LABORATORY	Determination of consolidation characteristics of soil using fixed ring Oedometer
09	GEOTECHNICAL	Determination of California Bearing Ratio (CBR) of soaked and un-soaked

	ENGINEERING LABORATORY	soil samples
10	GEOTECHNICAL ENGINEERING	Determination of coefficient of permeability of soil: (a) Constant head Permeameter (b) Falling Head Permeameter
	LABORATORY	

SI.	Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
No.		
01	MATERIAL TESTING	Determination of Fineness modulus by sieve analysis and/or by air
	LABORATORY	permeability method
02	MATERIAL TESTING	standard consistency
	LABORATORY	
03	MATERIAL TESTING	setting times, soundness, specific gravity, compressive strength
	LABORATORY	
04	MATERIAL TESTING	Sieve analysis of fine aggregate and coarse aggregates for determination
	LABORATORY	of fineness modulus and grain size distribution
05	MATERIAL TESTING	determination of water absorption and specific gravity of fine aggregate
	LABORATORY	and coarse aggregates
06	MATERIAL TESTING	bulking of sand, crushing value of coarse aggregates
	LABORATORY	
07	MATERIAL TESTING	Tensile strength of mild steel and HYSD Bars
	LABORATORY	
08	MATERIAL TESTING	Determination of shape, size and Water absorption of Bricks
	LABORATORY	
09	MATERIAL TESTING	Compressive strength, flexural strength and split tensile strength of
	LABORATORY	concrete
		Condicte

SI.	Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
No.		
01	SURVEY FIELD WORK	Testing of chain and measurement of correct length of the line and chain
		traversing
02	SURVEY FIELD WORK	Traversing by Compass
03	SURVEY FIELD WORK	Horizontal and vertical angle measurement by theodolite
04	SURVEY FIELD WORK	Traversing by theodolite
05	SURVEY FIELD WORK	Use of dumpy level and automatic level for fly levelling.
06	SURVEY FIELD WORK	Contouring of an area
07	SURVEY FIELD WORK	Measurement of distance, horizontal and vertical angle by Total Station
08	SURVEY FIELD WORK	Contouring by Total Station

SI.	Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
No.		
01	WATER SUPPLY & SANITARY	Determination of Taste, Odour and Colour of water/wastewater
	ENGINEERING LABORATORY	sample
02	WATER SUPPLY & SANITARY	Determination of pH, Temperature, E. Conductivity and D.O. of
	ENGINEERING LABORATORY	water/wastewater sample
03	WATER SUPPLY & SANITARY	Determination of TS, TDS and SS of water/wastewater sample
	ENGINEERING LABORATORY	
04	WATER SUPPLY & SANITARY	Determination of hardness & alkalinity of water sample
	ENGINEERING LABORATORY	
05	WATER SUPPLY & SANITARY	Determination of Turbidity and SO ₄ -2 of water sample

	ENGINEERING LABORATORY	
06	WATER SUPPLY & SANITARY	Determination of Ca ⁺² , Na ⁺ and K ⁺ of water sample
	ENGINEERING LABORATORY	
07	WATER SUPPLY & SANITARY	Determination of residual chlorine and Cl of water sample
	ENGINEERING LABORATORY	
08	WATER SUPPLY & SANITARY	Determination of BOD of water/wastewater sample
	ENGINEERING LABORATORY	
09	WATER SUPPLY & SANITARY	Determination of COD of water/wastewater sample
	ENGINEERING LABORATORY	
10	WATER SUPPLY & SANITARY	Microbiological analysis of water/wastewater sample
	ENGINEERING LABORATORY	

Sl. No.	Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
01	Design of Concrete Structures	Workability test of concrete:Slump test, compaction factor test and
	Lab	flow table test
02	Design of Concrete Structures	2. Cube Test of Concrete(Nominal Mix)
	Lab	
03	Design of Concrete Structures	3. Cylinder Test for Concrete (Nominal Mix): Determination of axial
	Lab	stress, longitudinal strain, lateral strain and Poision's ratio. Plotting
		of stress-strain curve and determination of modulus of elasticity.
04	Design of Concrete Structures	Split Tensile Strength Test of Concrete
	Lab	
05	Design of Concrete Structures	5. Prism test for determining modulus of rupture of concrete
	Lab	
06	Design of Concrete Structures	6. Design of Concrete Mix (As per Indian Standard Method)
	Lab	
07	Design of Concrete Structures	7. Failure of RC beam in bending and shear (two point and one point
	Lab	loading)
08	Design of Concrete Structures	8.Complete design of a simple load bearing residential building
	Lab	comprising of beams, slab,

SI.	Name of the Laboratory	List of Experimental Setup in each Laboratory/Workshop
No.		
01	Steel Structures Lab	Design and detailing of steel roof trusses/industrial buildings
02	Steel Structures Lab	Design of columns(with lacing and battening) and column bases
03	Steel Structures Lab	Design of plate girders and gantry girder
04	Steel Structures Lab	Detailing of structural steel connections, seated and framed
		connections

INNOVATION CELL











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Letter No. SEC/1477 24

Date 18 11 2024

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	Role
1	Prof.(Dr.) Prasanta Nayak	Principal	Chairperson
2	Prof. M.N.Mohanta	Dean, Admin	Member
3	Prof.(Dr.) A.K.Sahu	Dean, Academic	Member
4	Prof.(Dr.) S.D.Kalia	Head,Humanities	Member
5	Prof. Sarojini Sethi	Head, ETC Engg.	Member

Principal
Seemanta Engineering College
Mayurbhang Pharpokharia

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 11484 24

Date 18/11/2024

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.

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

Enrolment and placement details of students in the last 3 years $\,$

Academic Year: 2022-23

	IIIC 16a1. 2022-23				
SI. No.	Discipline	Students Enrolment	Number of Students selected for Placement	Name of Organization/Company	Package
1	Civil Engineering	32	8	Bhaskar Engineering Degn	1.6 lakhsto 2.4 lakhs
2	Computer Science & Engineering	48	2	Dhoot Transmission (P)Ltd	1.8 lakhsto 2.4 lakhs
3	Mechanical Engineering	36	7	Dhoot Transmission (P)Ltd	1.8 lakhsto 2.4 lakhs
4	Electrical Engineering				
5	Electronics & Telecommunication Engineering	8	1	Dhoot Transmission (P)Ltd	1.8 lakhsto 2.4 lakhs
6	Electrical & Electronics Engineering	12	5	Dhoot Transmission (P)Ltd	1.8 lakhsto 2.4 lakhs
7	MCA				
8	Electrical Engineering (M.Tech)				
9	Mechanical Engineering (M.Tech)				
10	Electrical Engineering (Diploma)	0	0		
11	Mechanical Engineering (Diploma)	47	41	TAFE , Bengaluru L & T , Amritsar	2 lakhs to 3.4 lakhs
12	Civil Engineering (Diploma)	44	5	Trigeo pvt Ltd , Bangalore	2 lakhs to 3.2 lakhs

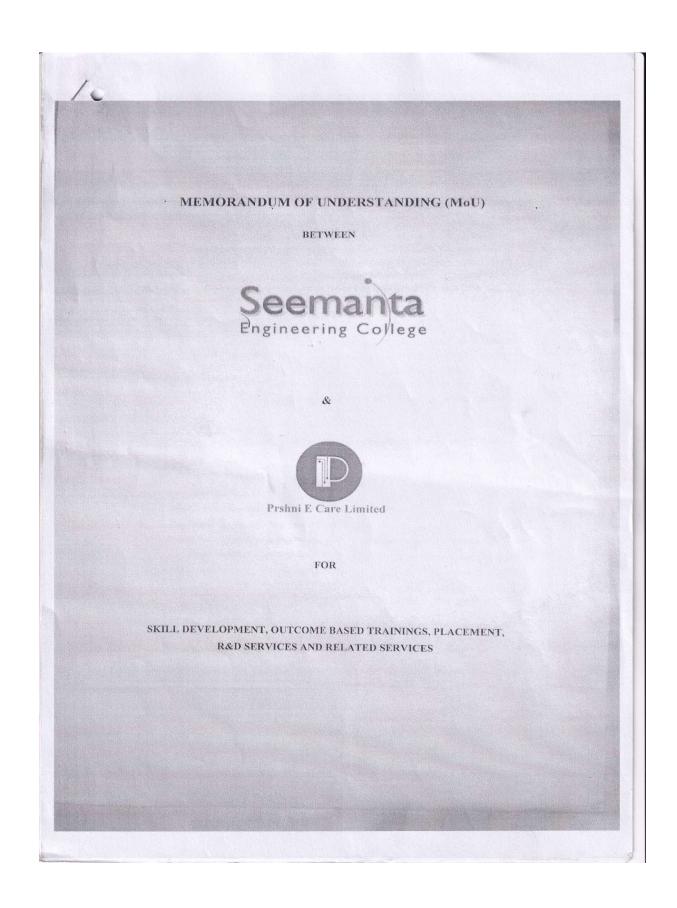
Academic Year: 2023-24

	THE TEUT. 2023 24				
SI. No	Discipline	Students Enrolment	Number of Students selected for Placement	Name of Organization/Compan y	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 Hitachi Astemo Gurugram Powertrain Syatem Pvt. Ltd	1.78Lakhs to 2.2 Lakhs
12	Civil Engineering (Diploma)				

Academic Year: 2024-25

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SI. 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	44	MRF Tayare, Flash Electronices	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 Tayare, Flash Electronices	1.8 lakhs to 2.6 lakhs
11	Mechanical Engineering (Diploma)	42	18	MRF Tayare, Flash Electronices	1.8 lakhs to 2.6 lakhs
12	Civil Engineering (Diploma)	45	2	MRF Tayare, Flash Electronices	1.8 lakhs to 2.6 lakhs



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:

- 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.
- 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.
- 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 M_0U , THE PARTIES HERE TO AGREE AS FOLLOWS:

CLAUSE I 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 upgradation, 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

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

malaga Rout Authorized Signatory

Anthori Principalitory Seemanta Engineering College Mayurbhani, Jharpokharia

Seemanta Engineering College Prshni E Care Ltd Mayur Vihar, Jharpokharia, Mayurbghanj-757086 Station Bazar, Baripada- 757001 9040076101 7381244960

E-mails: principal à seemantaengg ac in E-mails: prshniecareltd@gmail.com Web: prshni.in Web: seemantaengg.ac.in

Witness 1: Mohandownth Nahal Witness 2: Kehirod Ku Rtat
Witness 3: Sibabada Salalu Witness 4: Ryth Kuman mandal.

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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:

ESTD:199

- 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.
- 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 relatedfields

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

Seemanta Engineering College Mayurshani, Jharpotheria

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 upgradation, 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.
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Principa) Seemanta Engineering Cellege Mayurbhani, Jharpokharis Chitta Ranjon Shirt Sorman.

- 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.
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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

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

ESTD:1997 CONTRACTOR C

Principal
Seemanta Engineering College
Mayurbhani, Jharpotharia

Page **90** of **102**

CLAUSE 5 RELATIONSHIP BETWEEN THE PARTIES

It is expressly agreed that First Party and Second Party are acting under this MoU 5.1 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

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:

INEER

ESTD:19 201

For Seemanta Engineering College

For Allay Software Solutions

Authorized Signatory

Seemanta Engineering College	Allay Software Solutions
Mayur Vihar, Jharpokharia, Mayurbhanj-757086	Plot No. B-140, 1 st 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: 'Lymbo Mahalm
Witness 3: Debonish Behera

Witness 2: Bhaleam' Chin Sahr Witness 4: Chata Cayon Mahark



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

PANDA MOTORS

Sanjit Kumar Panda

Proprietor Panda Motors



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.

Proprietor M/s. Sun Honda

Baripada, Mayurbhanj

Sun Honda

Station Road, Baripada-757001, Tel: 06792-256999/257899

MEMORANDUM OF UNDERSTANDING (MoU) BETWEEN Engineering College TechLand Systems Pvt. Ltd.

Uniting Resources Of All Lands, Enabling Technology.
(An ISO 9901:2015 Certified Company) FOR SKILL DEVELOPMENT, OUTCOME BASED TRAININGS, PLACEMENT, **R&D SERVICES AND RELATED SERVICES** For TECHLAND SYSTEMS PVT. LTD. DIRECTOR

MEMORANDUM OF UNDERSTANDING

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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:

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- 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.
- 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 relatedfields

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

ESTD:1997

Principal
Principal
Geomenta Engineering College
Mayurbhani, Jharpekharia

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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CLAUSE 2 SCOPE OF THE MoU

- 2.1 The budding graduates from the institutions could play a key role in technological upgradation, 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.



Principal Seemanta Engineering College Mayurbhani, Jharpownaria

- 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

- 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



Principal
Seemanta Engineering College
Mayurbhani, Jharpokharia

CLAUSE 5 RELATIONSHIP BETWEEN THE PARTIES

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First Party

Second Party

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ESTD:199

AGREED:

Seemanta Engineering College Mayurbhanj, Jharpokharia

Authorized Signatory

For TECHLAND SYSTEMS PVT, LTD2

For Tech Land Systems

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: Chètharconjour Moharta Witness 3: Pravois Kumar Serapati

Witness 2 Parkono Charles &

Witness 4: Crobê Mar Jena

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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).

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WHEREAS:

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Seemanta Engineering College, Mayurbhanj

ta Engineerin**g College** bhani, Jharpokharia

- 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.
- 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 M₀U, THE PARTIES HERE TO AGREE AS FOLLOWS:

GLORY ENGINEERING CONCERN

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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Engineering Colle

GLORY ENGINEERING CONCERN

Proprietor

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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 **Glory Engineering Concern**, the Second Party, as the case may be, will take effective steps for implementation of this MoU. Any act on the part of **Glory Engineering Concern**, 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

emanta Engineerin**g College** Mayurbhanj, Jharpokharia GLORY ENGINEERING CONCERN

Arigit Ghosh Proprieto

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:199 201

OKHA

Mayurbhanj, Jharpokharia

For Glory Engineering Concern GLORY ENGINEERING CONCERN

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: Crobendu Jena
Witness 3: Rabindhamohanta

Witness 2: Fravas Kunger Sepapat Witness 4: Phaleane Chil-Sh