



CAPITAL ENGINEERING COLLEGE BHUBANESWAR

MANDATORY DISCLOSURE

- 1 Name of the Institution:** Capital Engineering College
Mahatapalla, Bajapur, Khordha, Odisha, 752055
Tel. No: (06755) 243511, 611 (06755) 243611
E-mail: cecodisha@gmail.com
- 2 Name and address of the Trust:** Bidya Bharati Educational Trust
Block-3, 4/A, BMC Bhawani Enclave
Saheed Nagar, Bhubaneswar, 751007
- 3 Name and Address of the Principal:** Dr. Kailash Chandra Rout
Capital Engineering College
Ph: 9776235555
E-mail: principal@cecodisha.edu.in
- 4 Name of the affiliating University:** Biju Patnaik University of Technology, Odisha

5 Governance

❖ Governing Body

Sl.No	Name of the Member	Position in the GB
1	Sri Badri Narayan Sahoo, Chairman, Bidya Bharati Educational Trust,	Chairman
2	Dr. Kailash Chandra Rout, Principal, Capital Engineering College	Member Secretary (Ex-officio)
3	Sri Biranchi Narayan Sahoo, Secretary, Bidya Bharati Educational Trust,	Member
4	Sri Subha Narayan Sahoo, Trustee, Bidya Bharati Educational Trust,	Member
5	Prof. (Dr) Atal Harichandan Professor, KIIT, Bhubaneswar (Educationist)	Member
7	Nominee from ERO, AICTE, Kolkata (To be nominated) Request letter already sent	Member
8	Nominee from Biju Patnaik University of Technology (To be nominated) Request letter already sent	Member
9	Nominee from Govt. Of Odisha (Skill Development and Technical Education) (To be nominated) Request letter already sent	Member
10	Prof Goutam Mishra, Asso. Proff., Capital Engineering College (Staff representative – Male)	Member
11	Prof Minarva Harichandan, Asso. Proff., Capital Engineering College (Staff representative – Female)	Member

- ❖ Establishment of Online Grievance Redressal Mechanism:

<https://cms.cecodisha.edu.in/index.php?r=site%2Flogin>



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❖ Establishment of Anti Ragging Committee

SI No	Name of the Committee Member	Designation	Position
1	Dr. Kailash Chandra Rout	Principal	Chairman
2	Mr. Goutam Mishra	Associate Professor	Convenor
3	Mr. Subha Narayan Sahoo	Trustee	Member
4	Mr. Biranchi Narayan Sahoo	Trustee	Member
5	Miss Pranati Das	Asst. Proff.	Women Representative
6	Mr. Bipash Mohanty	Asst. Proff.	Member
7	Miss Aliva Sakhi Mishra	Asst. Proff.	Member
8	Mr. Saradendu Bhujbal	Asst. Proff.	Member
9	Mr. Arun Kumar Rout	Asst. Proff.	Member
10	Mr. Tapan Kumar Dalei	Journalist	Member
11	Mr. Babula Tading	Student representative	Member
12	Ms. Sushnti Tudu	Student representative	Women Representative
13	Mrs. Sunita Sahoo	IIC, Khordha	Member
14	Mr. Kedara Prusty	Sarpancha, Nandapur	Member

❖ Establishment of Grievance Redressal Committee

SI No	Name of the Committee Member	Designation	Position
1	Dr. Kailash Chandra Rout	Chairman	Principal
2	Mr. Sandeep Kumar Bala	Secretary	Asso. Proff.
3	Mrs. Purnyaprava Nayak	Member	Asst. Proff.
4	Miss Alivasakhi Mishra	Member	Asst. Proff.
5	Miss Swatishmita Jena	Member	Asst. Proff.
6	Mr. Ashis Kumar Acharya	Member	Asst. Proff.

❖ Establishment of Internal Complaint Committee (ICC)

SI No	Name of the Committee Member	Designation	Position
1	Mrs Purnya Prava Nayak	Chairperson	Asst. Proff.
2	Miss Sasmita Sahoo	Member	Teaching Faculty
3	Mr. Satyakam Acharya	Member	Teaching Faculty
4	Mrs. Sudipta Mohanty	Member	Non-Teaching Staff
5	Miss. Snehalata Sahu	Member	Non-Teaching Staff
6	Miss. Karina Ray	Student	Student
7	Miss. Sneha Bhoi	Student	Student
8	Mr. Rabindra Kumar Behera	Student	Student



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❖ Establishment of Committee for SC/ST

SI No	Name of the Committee Member	Designation	Position
1	Mr. Debananda Behera	Teaching	Chairman
2	Mr. Debasis Mohapatra	Teaching	Member
3	Mr. Sushree Subhrangi Behera	Teaching	Member
4	Mr. Gouttam Chandra Behera	Student	Member
5	Miss. Panina Sabar	Student	Member

❖ Internal Quality Assurance Cell

SI No	Name of the Committee Member	Designation	Position
1	Dr. Kailash Chandra Rout	Principal	Chairman
2	Dr. Yogamaya Mohapatra	Convenor	Representative, CSE
3	Mr. Rakesh Sahu	Member	Representative, ME
4	Miss. R. Krishnarani	Member	Representative, EE
5	Mr. Biswa Ranjan Pradhan	Member	Representative, CE
6	Miss. Pranati Dash	Member	Representative, EEE
7	Dr. Manoranjan Samal	Member	Representative, BSH
8	Mrs Sudeepta Mohanty	Member	Administrative Official
9	Mr. Venkat Raman Tripathy	Member	Assistant Manager, Megha Engineering & Infrastructure Limited.
10	Mr. Subasish Patnaik	Member	Sr. Designing Engineer, Refratechnik India Pvt. Ltd.

6. Programmes Details:

❖ Course Details:

Programme Name	Branch Name	Duration (Years)	Number of Seats	Cut off marks for admission	Tuition Fees (Rs)	Avg. Placement in last 3 years
B-tech	CSE	4	60	As Per AICTE guidelines	59000.00	73.62%
B-tech	CIVIL	4	120		59000.00	75.05%
B-tech	EE	4	60		59000.00	77.80%
B-tech	EEE	4	60		59000.00	72.35%
B-tech	MECHANICAL	4	120		59000.00	83.25%
MCA	MCA	2	120		50000.00	NA



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❖ NBA Accreditation Status:

1	Name/ List of Programmes/ Courses Accredited	No
2	Applied for Accreditation	No
	A. Applied but Visit not happened	NA
	B. Visit happened but result awaited	NA
3	List of programmes/ courses Not Applied	NA

❖ NAAC Accreditation Status:

1	Name/ List of Programmes/ Courses Accredited	No
2	Applied for Accreditation	No
	A. Applied but Visit not happened	NA
	B. Visit happened but result awaited	NA
3	List of programmes/ courses Not Applied	NA

7. Faculty

SI No	Name of the Faculty	Designation	Qualification	Department	Date of Joining
1	Dr. Kailash Chandra Rout	Professor	M. Tech, Ph.D.	EEE	04-01-2018
2	Dr. Atul	Professor	M. Tech, Ph.D.	MECHANICAL	03-08-2019
3	Ashish Singh	Asso. Proff.	M. Tech	CSE	12-09-2019
4	Goutam Mishra	Asso. Proff.	M. Tech	MECHANICAL	16-05-2017
5	Manoranjan Sahoo	Asso. Proff.	M. Tech	ECE	16-08-2016
6	Dr. Manoranjan Samal	Asso. Proff.	M.Sc., Ph.D.	BSH	27-12-2021
7	Minerva Harichandan	Asso. Proff.	M. Tech	EE	12-04-2017
8	Salila Malla	Asso. Proff.	M. Tech	ECE	02-01-2019
9	Dr. Shubhangi Gopalrao Patil	Asso. Proff.	M.Sc., Ph.D.	BSH	01-12-2017
10	Sunita Baral	Asso. Proff.	M. Tech	EE	19-06-2017
11	Yogomaya Mohapatra	Asso. Proff.	M. Tech	CSE	12-02-2021
12	Abhisek Gantayat	Asst. Proff.	M. Tech	EEE	04-12-2017
13	Abinash Sahoo	Asst. Proff.	M. Tech	MECHANICAL	11-09-2017
14	Achyutananda Panda	Asst. Proff.	M. Tech	EE	30-11-2017
15	Alivasakhi Mishra	Asst. Proff.	M. Tech	CIVIL	03-01-2019
16	Amar Sathy	Asst. Proff.	M. Tech	MECHANICAL	03-03-2020
17	Anchal Paramguru	Asst. Proff.	M.Sc	BSH	22-08-2019
18	Anita Subudhi	Asst. Proff.	M. Tech	CSE	03-04-2017
19	Arabinda Dash	Asst. Proff.	M. Tech	CSE	01-03-2017
20	Aruna Kumar Rout	Asst. Proff.	M. Tech	EE	12-07-2015
21	Arunima Panda	Asst. Proff.	M.Sc	BSH	06-09-2016
22	Ashis Kumar Acharya	Asst. Proff.	M. Tech	CSE	31-08-2014



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23	Balabhadra Dehury	Asst. Proff.	M. Tech	CIVIL	04-11-2019
24	Bhawesh Kumar	Asst. Proff.	M. Tech	EEE	08-08-2017
25	Bibekananda Biswal	Asst. Proff.	M.Sc	BSH	23-12-2017
26	Bibhuti Bhusan Sabat	Asst. Proff.	M. Tech	MECHANICAL	31-01-2016
27	Bijayalaxmi Behera	Asst. Proff.	M. Tech	CIVIL	17-01-2019
28	Bipash Mohanty	Asst. Proff.	M. Tech	CIVIL	01-09-2016
29	Biraja Prasad Nayak	Asst. Proff.	M. Tech	CSE	27-11-2017
30	Biswa Pradhan	Asst. Proff.	M. Tech	CIVIL	12-01-2019
31	Biswajit Mohapatra	Asst. Proff.	M. Tech	MECHANICAL	28-05-2017
32	Debabratta Biswal	Asst. Proff.	M. Tech	EE	10-12-2019
33	Debananda Behera	Asst. Proff.	M. Tech	MECHANICAL	04-12-2017
34	Debasis Mohapatra	Asst. Proff.	M. Tech	CSE	08-12-2021
35	Dheeraj Kumar	Asst. Proff.	M. Tech	EEE	01-11-2016
36	Gopal Behera	Asst. Proff.	M. Tech	EE	10-02-2020
37	Ipsit Joshi	Asst. Proff.	M. Tech	CSE	04-01-2019
38	Jagruti Jagatanandini Swain	Asst. Proff.	M. Tech	CIVIL	01-08-2016
39	Kabi Sahoo	Asst. Proff.	M. Tech	MECHANICAL	12-08-2019
40	Kankan Mandal	Asst. Proff.	M. Tech	CIVIL	03-01-2019
41	Manas Ranjan Pal	Asst. Proff.	M. Tech	MECHANICAL	11-12-2017
42	Manoj Kumar Mohanta	Asst. Proff.	M. Tech	EEE	24-11-2016
43	Dr. Minushree Pattnaik	Asst. Proff.	M.A., Ph.D.	BSH	26-08-2019
44	Mitali Pattanaik	Asst. Proff.	M. Tech	CIVIL	15-12-2019
45	Nalinikanta Swain	Asst. Proff.	M. Tech	MECHANICAL	31-03-2017
46	Nayan Kishore Giri	Asst. Proff.	M. Tech	CIVIL	09-11-2017
47	Poonam Tripathy	Asst. Proff.	M. Tech	EEE	10-08-2017
48	Pranati Das	Asst. Proff.	M. Tech	EE	16-07-2019
49	Pranaya Rout	Asst. Proff.	M. Tech	EE	10-01-2019
50	Prangya Parimita Padhi	Asst. Proff.	M. Tech	ECE	12-07-2017
51	Pritish Mohanty	Asst. Proff.	M. Tech	EE	10-01-2019
52	Priyabrata Jena	Asst. Proff.	M. Tech	MECHANICAL	26-12-2017
53	Priyadarshini Das	Asst. Proff.	M.Sc	BSH	16-01-2019
54	Purnya Prava Nayak	Asst. Proff.	M. Tech	CSE	20-11-2017
55	Rajesh Kumar Swain	Asst. Proff.	M. Tech	CIVIL	08-07-2019
56	Rakesh Sahu	Asst. Proff.	M. Tech	MECHANICAL	03-01-2020
57	Rashmi Rabindra Sahoo	Asst. Proff.	MBA	BSH	10-04-2017
58	Rashmiprava Mishra	Asst. Proff.	M. Tech	ECE	09-01-2019
59	Rasmi Krishnarani	Asst. Proff.	M. Tech	EE	19-07-2019
60	Rasmi Sarangi	Asst. Proff.	M. Tech	CSE	28-12-2017
61	Raushan Gupta	Asst. Proff.	M. Tech	CIVIL	02-01-2019
62	Reshma Swain	Asst. Proff.	MBA	BSH	16-09-2016



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63	Romeo Jena	Asst. Proff.	M. Tech	EEE	22-08-2012
64	Sairukmini Sahu	Asst. Proff.	M. Tech	ECE	02-06-2017
65	Sandip Kumar Bala	Asst. Proff.	M. Tech	CSE	16-11-2021
66	Sanghamitra Rout	Asst. Proff.	M. Tech	ECE	15-06-2017
67	Sangita Pani	Asst. Proff.	M.Sc	BSH	25-03-2021
68	Sanjib Kumar Das	Asst. Proff.	M. Tech	MECHANICAL	04-12-2019
69	Saradendu Bhujabal	Asst. Proff.	M. Tech	MECHANICAL	05-08-2011
70	Saswati Nayak	Asst. Proff.	M. Tech	MECHANICAL	08-11-2017
71	Satyaprakash Mishra	Asst. Proff.	M. Tech	CIVIL	18-09-2017
72	Shradha Jena	Asst. Proff.	M. Tech	CIVIL	12-07-2017
73	Siba Prasad Senapati	Asst. Proff.	M. Tech	EE	03-05-2017
74	Sidharth Pradhan	Asst. Proff.	M. Tech	MECHANICAL	13-11-2017
75	Smitasree Jena	Asst. Proff.	M. Tech	EE	09-02-2015
76	Smruti Samantray	Asst. Proff.	M. Tech	ECE	13-11-2017
77	Smrutiranjana Pradhan	Asst. Proff.	M. Tech	CIVIL	12-12-2019
78	Soumya Mohanty	Asst. Proff.	M. Tech	EE	15-01-2019
79	Sourav Prakash Pradhan	Asst. Proff.	M. Tech	MECHANICAL	07-10-2019
80	Subhankar Shibajyoti Puan	Asst. Proff.	M. Tech	CIVIL	13-01-2020
81	Subhrajit Sahoo	Asst. Proff.	M. Tech	EE	03-08-2015
82	Subrat Kumar Biswal	Asst. Proff.	M.Sc	BSH	23-11-2017
83	Subrat Kumar Dash	Asst. Proff.	M. Tech	CSE	02-01-2015
84	Suchismita Sarangi	Asst. Proff.	M.Sc	BSH	25-07-2017
85	Sudipt Kumar Mandal	Asst. Proff.	M. Tech	EEE	15-12-2017
86	Sushree Subhrangi Behera	Asst. Proff.	M.Sc	BSH	19-12-2019
87	Swagatika Das	Asst. Proff.	M.Sc	BSH	10-01-2019
88	Swapnarani Pradhan	Asst. Proff.	M. Tech	CIVIL	05-08-2019
89	Swarup Ranjan Sahoo	Asst. Proff.	M. Tech	CIVIL	07-09-2015
90	Swatishmita Jena	Asst. Proff.	M. Tech	CSE	25-11-2021

8. Profile of Principal

Name : Dr. Kailash Chandra Rout

Date of Birth : 17th June, 1980

Education Qualifications : B.tech, M.Tech, Ph.D.

Work Experience

Teaching : 18

Research : 2

Industry : 1

others : 3

Area of Specialization : Electronics & Communication Engineering

Courses taught at : Diploma/ Under Graduate/ Post Graduate



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Research guidance(Number of Students)

No. of papers published	: 26
Master	: Completed
Ph.D.	: Completed
Projects Carried out	: 12
Patents (Filed & Granted)	: 4
Technology Transfer	: 2
No. of Books published with details	: 6

9. Fee

Sl No	Programme	Branch	Tuition Fees/Year	Time schedule for payment of Fee
1	B-tech	CSE	59000.00	At the starting of Academic year
2	B-tech	CIVIL	59000.00	
3	B-tech	EE	59000.00	
4	B-tech	EEE	59000.00	
5	B-tech	MECHANICAL	59000.00	
6	MCA	MCA	50000.00	

10. Admission

Sl No	Programme	Branch	Seats Sanctioned	Year of approval	Admission in			Admission under Management Quota
					2021-22	2020-21	2019-20	
1	B-tech	CSE	60	2010	49	54	52	No admissions are done under Management Quota
2	B-tech	CIVIL	120	2015	77	99	97	
3	B-tech	EE	60	2010	54	52	52	
4	B-tech	EEE	60	2011	43	48	41	
5	B-tech	MECHANICAL	120	2010	96	103	108	
6	MCA	MCA	120	2021	63	NA	NA	

11. Admission Procedure: Admission in to various programmes of Capital Engineering College is controlled by Odisha Joint Entrance Examination (OJEE) and as per the rules and regulations formed by Government of Odisha. The students are admitted through the entrance examination and counselling conducted by OJEE. For more details about the admission procedure OJEE website can be referred <https://ojee.nic.in>.

12. Criteria and Weightages for Admission: The criteria and eligibility for admission are governed by Odisha Joint Entrance Examination (OJEE) and as per the rules and regulations formed by Government of Odisha in consonant with AICTE guidelines.



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13. List of Applicants: Capital Engineering College do not receive any application for admission.

The students choose the programme and course through Odisha Joint Entrance Examination (OJEE) and allotted to Capital Engineering College for admission through the counselling process.

14. Results of Admission Under Management seats/Vacant seats: No management seats are available in Capital Engineering College as per guidelines of Government of Odisha. The vacant seats are filled as per the guidelines formed by OJEE from time to time.

11. Information of Infrastructure and Other Resources Available

Sl No	Type of Infrastructure	Total Numbers available	Total Area (Sq Mtr)
1	Class room	34	2203.9
2	Tutorial room	10	366.66
3	Laboratory	47	3450.8
4	Additional Workshop	1	230.9
5	Board Room	1	37.88
6	Boys Common Room	1	100.32
7	Cafeteria	1	200
8	Central Store	1	30
9	Computer Centre	1	153.73
10	Drawing Hall	1	133.35
11	Exam Control Office	1	37.88
12	First Aid cum Sick Room	1	17.4
13	Girl's Common Room	1	101.39
14	House Keeping	1	10
15	Language Lab	1	66
16	Library Cum Reading Hall	1	557.14
17	Maintenance Room	1	10.17
18	Pantry For Staff	1	10.17
19	Principal Office	1	52.65
20	Reception Area	1	30
21	Security	1	10
22	Stationary Store	1	10
23	Training & Placement Office	1	70.66
24	Workshop	1	309
25	Seminar Hall	3	495.84



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26	Department Office	7	226.53
27	Faculty Room	7	152.95
28	HOD Room	7	86.89
29	Office	2	506.39
30	Toilet	14	479.03
31	Toilet for Disabled	3	10
32	Other Built up areas		7210

Barrier Free Built Environment for disabled and elderly persons : Available in each building
 Occupancy Certificate : Obtained from competent authority
 Fire and Safety Certificate : Obtained from competent authority
 Hostel Facilities : Not Available

❖ Library

• Library Book details:

Total No of Titles :3435
 Total No of Volumes :18674

• Journal Details:

Total No of National Journals :38
 Total No of International Journals :27
 E-journals available :60

• Other Details:

No of Computers available in E-Library :30
 Library Automation software name : SOFTLIB
 • National Digital Library (NDL) subscription details : INORNC3R5GUMDVH (NDL Club registration Id)

❖ Laboratory and Workshop

- List of Major Equipment/Facilities in each Laboratory/Workshop
- List of Experimental Setup in each Laboratory/Workshop

Laboratory Name	Equipment Particulars
Basic mechanical engineering lab	Water tube and fire tube boiler
	Coplanar force system
	Moment of inertia of flywheel
CNC lab	CNC lathe trainer
	CNC milling trainer
Engineering thermodynamics lab	Centrifugal/Axial flow compressor
	Joule-Thomson apparatus
	Cut section of single cylinder four stroke petrol engine
	Cut section of single cylinder four stroke diesel engine



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	Cut section of single cylinder two stroke petrol engine
	Cut section of single cylinder two stroke diesel engine
Fluid mechanics & Hydraulic machines	Metacentric Height Apparatus
	Burdon tube pressure gauge with U-tube Manometer
	Kaplan turbine test rig
	Coefficient of discharge V notch apparatus
	Impact of jet with all accessories
	Reciprocating pump test rig
	Centrifugal pump test rig
	Pelton wheel turbine
	Francis turbine test rig
	Bernoulli's theorem apparatus
	Flow through orifice apparatus
Heat transfer lab	Composite slab apparatus
	Natural and forced convection heat transfer apparatus
	Parallel flow and counter flow heat exchanger
	Emissivity apparatus
	Heat transfer by fins apparatus
	Critical heat flux apparatus
	Steffen Boltzmann apparatus
IC Engine lab	4-stroke single cylinder C.I. Engine
	valve timing diagram of IC engine
	Morse test on IC engine
	Load test and heat balance on 2 stroke S.I. Engine
	Exhaust gas analysis apparatus
	Study of different cooling system in automobile
	Study of lubrication system of automobile
Machine dynamics lab	Hartnell Governor
	Static and dynamic balancing apparatus
	Damped vibration apparatus
Mechanics of Solid	Universal testing machine (40 T capacity)
	Fatigue testing Machine
	Impact testing machine
	Brinnell & Rockwell hardness testing machine
	Spring testing machine
	Torsion testing machine
Refrigeration & Air conditioning lab	Vapour compression refrigeration test rig
	Vapour absorption refrigeration test rig
	Window type air conditioning test rig
	Duct type air conditioning test rig



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	Ice plant apparatus
	Heat pump apparatus
Workshop	Welding machine 260 Amp 1 Phase
	1" Drilling machine
	12" shaping machine
	200 mm hydraulic hacksaw
	Bench Grinder
	Universal milling machine with other accessories
	1/2' lathe machine with other accessories
	1/2' lathe machine with other accessories
	4.5' bed Lathe machine
	4.5' bed Lathe machine
	4.5' bed Lathe machine
	4.5' bed Lathe machine
	4.5' bed Lathe machine
	Drilling machine
	Hydraulic hacksaw
	Bench grinder
	Fitting tools
	Sheet metal work tools
Highway & traffic engineering	Crushing value of aggregate apparatus
	Impact value of aggregate test apparatus
	Ductility value of bitumen test apparatus
	Flankness index & elongation index test apparatus
	Flash & fire point test of bitumen test apparatus
	Loss angles abrasion value of aggregate apparatus
	Marshall stability test apparatus
	Penetration test of bitumen test apparatus
	softening point of bitumen test apparatus
Stripping value of aggregate test apparatus	
Structural engineering Lab	Column buckling apparatus
	Elastic properties of deflected beam apparatus
	Truss apparatus
	Clark maxwell reciprocal apparatus
	Moment area theorem apparatus
	three hinged arch apparatus
	two hinged arch apparatus
	Rebound hammer
	Ultrasonic pulse velocity tester
Portal frame apparatus	



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Water Supply and Sanitary Engineering Lab	BOD apparatus
	COD apparatus
	Jar test apparatus
	DO Meter
	PH Meter
	Turbidity Meter
Surveying Lab	Chain(30mt)
	Ranging rod (heavy)
	Ranging rod (lite)
	Prismatic compass with Tripod stand
	Plane table with all accessories
	Leveling staff in five folds (5mt)
	Transit theodolite with tripod stand
	Dumpy level
Design of concrete structure and material testing Lab	Slump cone
	Metal plate
	Trowel
	Tamping rod
	Compaction factor apparatus
	Flow table apparatus
	Mould
	cube mould
	Concrete mixer
	Compression testing machine
	Cylindrical mould
	Split tensile strength testing machine
	Flexural strength testing machine
	steel prism mould (100*100*500mm)
	Steel prism mould
	Air permeability apparatus
Vicat test apparatus	
Sieves	
Geo Technical Engineering & Advanced Geo Technical Engineering LAB	Motorized sieve shaker
	Liquid limit Device
	plastic limit device
	shrinkage limit device
	core cutter with dolly
	sand pouring cylinder
	Proctor compaction test device
	Relative density apparatus



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	Direct shear test apparatus
	Triaxial compression test apparatus
	Unconfined compression test apparatus
	Vane shear test device
	Consolidation test apparatus
	Cbr test apparatus
	Soil permeability test apparatus
	Electric stirrer
	Sieves
	Water bath
	Augur
	Standard penetration test
	Cone penetration test
	Swelling pressure
Analogue Communication Technique	Am Transmitter Trainer(ACL-01)
	AM Receiver Trainer(ACL-02)
	FM Transmitter Trainer(ACL-03)
	FM Receiver Trainer(ACL-04)
	Filter/ Noise(ACL-05)
	Sampling & Reconstruction Kit(DCL-01)
	PCM KIT
	30 MHZ Dual Channel Analog Oscilloscope(OSO30)
	FDM(VCT-59)
	PAM,PPM,PWM Modulation & Demodulation(VCT-01)
	Spectrum Analyzer(SA-1080TG)
Digital Communication Technique	Ask Modulation & Demodulation Trainer(Vct-17)
	FSK Modulation & Demodulation Trainer(VCT-18)
	PSK Modulation & Demodulation Trainer(VCT-21)
	QPSK Modulation & Demodulation Trainer(VCT-29)
	Noise Signal Generator(VCT-38)
	DPSK Modulation & Demodulation Trainer(VCT-39)
	Level Converter(VCT-40)
	MSK Modulation & Demodulation Trainer(VCT-46)
	Quadrature Amplitude Modulation & Demodulation Trainer(VCT-49)
	Delta,Adaptive Delta , Sigma Delta Modulation (VCT-50)
	PCM/ delta /adaptive delta modulation(VCT-07)
	TDM modulation & demodulation kit(VCT-02)
	channel coding & decoding kit(VCT-14 A,B)
	spectrum analyzer(9KHZ TO 3 GHZ)



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	ISDN
	CDMA trainer
Digital Signal Processing	Tms320c6713 Based DSP Trainer , SI-644
	TMS320C6713 Based DSP Trainer , SI-6713
	TMS320C6713 Based DSP Trainer , Vsk-6748 ,SI-3
	TMS 320C6748 Based DSP Trainer, SI No-4
	TMS 320C6748 Based DSP Trainer, SI No-5
	TMS 320C6748 Based DSP Trainer, SI No-6
	TMS 320C6748 Based DSP Trainer, SI No-8
	TMS 320C6748 Based DSP Trainer, SI No-8
Communication Engineering	Antenna Trainer Kit , Model-St 2262
	Fiber Optics Trainer Kit
	Satellite Communication , Mod-ST 2272
	Noise Figure Of An Amplifier, Mod-2205
	Dopler Radar Transceiver And Radar Data Acquisition Software
	Colour TV Receiver
	Laser Trainer , Mod-2506
	Digital Storage Oscilloscope
Microwave Engineering	Klystron Power Supply, Microwave Test Bench-NV 9002
	Microwave Test Bench-NV 9000
	Microwave Test Bench, Model-NV 9002
	Gun Oscillator Based, Microwave Test Bench,
	Klystron Based , Microwave Test Bench
	Klystron Source Based Antenna Microwave Test Bench
	MeasurementOf Scattering Parameter
	Scattering Parameters
Basic Electronics	Diode Trainer (Tdt-04)
	Rectifier Study Trainer Module [TRT-05]
	BJT Transistor Module [TTT-01]
	Integrator & Differentiator [TDIT-24]
	Digital/Logic IC Trainer
	(A) Micro Ampere-Meter (0-100 Micro Ampere) (DC)
	(B) Milli Ampere-Meter (0-30ma) (DC)
	Feed Back Amplifier (TFAT-27)
	BJT Transistor Module [TTT-01]
	Diode Study Module
	Rectifier Study Trainer Module [TRT-05]
	BJT Transistor Module [TTT-01]
	Integrator & Differentiator [TDIT-24]
	Digital/Logic IC Trainer



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	Universal Bread Board Trainer [VBBT- 01]
	Aplab20mhz Dual Trace Oscilloscope, Sl. No-DI030SL0,708247-52
	AplabDigital Hand Held Multimeter
	Aplab 2Mhz Function Generator, Sl. No-H003fge0608271,72,78,79,80
	Differential Amplifier Trainer
	Universal Bread Board Trainer (Analog Cum Digital) Lab,Sl.No-09121513,09121514,09121515,09121516,09121517
	30mhz Oscilloscope with Component Tester, Sl. No-09121333,09121334
	DC Current Meter (Digital)
Micro Processor & Micro Controller	8085 Microprocessor Trainer [Micro-85-Lc] Led, Sl. No-915,914,916,899,864,917,904
	Channel DAC Interface Board [VBMB-002],SL.NO-3250,3259
	Stepper Motor Controller With [VBMB-013A], SL. NO-2790,2626
	Generator Square Wave On All Line Of 8255 With Different Frequencies
	8085 Microprocessor Trainer Kit Model (MICRO-85 LCD) MICRO85EBLCD, SL.NO-674,673,677,77,678,676
	Study Of Stepper Motor & Its Operation (Stepper Motor Controller) [VBMB-013A],SL NO-2624,2793
	Study Of Traffic Light Controller (Traffic Light Control System) [TRAF], SL.NO-2805,2811,2809
	Elevator Simulator Interface[VBMB-022],SL NO-395,398,390
	8051 Microcontroller CMCS Family Microcontroller Trainer (MICRO-51EB), SL. NO-209,204,207,208,200,201
	8086 Microprocessor Trainer KIT, SL NO-3055,3057,3824,3061,3062,3063
	ADC Converter Trainer Kit [VSTM-03],SL NO-435,442
DAA Trainer Kit [VSTM-02], SL. NO-447,467	
Analogue Electronic Circuit	Bjt Biasing Ckt Trainer
	Transistor Amplifier Trainer
	Feedback Amplifier Trainer
	JFET Biasing Ckt
	Square Wave Generator Using Opamp
	Measurement Of Opamp Parameters
	Square Wave Generator Using Opamp
	BJT Biasing CktTrainer
Transister Amplifier Trainer	



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	Feed Back Amplifier Trainer
	JFET Biasing Ckt
	Universal Bread Board Trainer
	30MHZ Dual Channel Analog Oscilloscope [Oso 30]
	2MHZ Function Generator With Frequency Counter [FG-02]
	3 ³ / ₄ Digital Low Cost Hand Held Multimeter [DMM-10]
	DSO-025C1-0316,0390,25MHZ 100Mb/S Colour Digital Storage Oscilloscope With USB Interface & Software
	CRO
	Function Generator
	Multimeter[Vc-97], Sl. No-82,83,86,79,58,88
	DC Current Meter (Digital)
Digital Electronic Circuit	Binary Adder/Substractor [Db-08]
	Multiplexer Demultiplexer[DB-10]
	Flip Flop [DB-11]
	SHIFT REGISTER [DB-12]
	4 Bit Synchronous Binary Counter [DB-13]
	4 Bit Binary Ripple Counter [DB-14]
	BNC TO BNC Cable
	BNC TO CROCODILE Cable
	Universal Bread Board
	30MHZ Oscilloscope With Component Tester
VLSI	FPGA TRAINER KIT [ST-103]
Basic Electrical Engineering Lab	AC Ammeter (1A-2A)
	AC Ammeter (10A-20A)
	AC Voltmeter(0-300 V)
	AC Wattmeter(75/150/300V, 0.5 A)
	Capacitive Load Box,1-ph
	Resitive Load Box,1-phase,3kW
	Cutter
	Energy Meter Panel
	Tester
	Fuse Box
	Fluorescent Lamp Trainer Kit
	Single phase fan motor
	Rheostats 200 ohm,5A
	Inductive Load Box -1-Phase,5A
	LPF Wattmeter 2.5/5 A
	Megger 500V
	Single phase Variac 20 A



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	Single phase Variac 10 A
	Plier
	Single Phase Transformer 230v/115 , 1 kVA
Network Theory Lab	Active filter Trainer NV-6504
	Digital Multimeter
	Digital Multimeter
	DSO 25 MHz NB 102C
	Determination of self inductance and mutual inductance trainer kit
	Norton Theorem Trainer Kit-
	Oscilloscope-08113253
	Norton's theorem trainer kit
	Maximum power transfer theorem trainer kit
	Series parallel resonance trainer kit
	DC/AC transient trainer kit
	ABCD and h- parameter trainer kit
	Low pass high pass trainer kit
	Two Port Network AB-90
	RLC Circuit trainer kit, NV-6515
	RC/RL circuit trainer kit 65CA
	Reciprocity and Superposition Trainer Kit AB-83
	Z & Y parameter kit
	RLC Series and Parallel Resonance trainer kit AB-80
	Thevenin's theorem trainer kit
	superposition theorem trainer kit
	Band pass, band stop filter trainer kit
	Kirchhoff's Law Trainer Kit, AB-59
Electrical & Electronics Measurement Lab	AC Wattmeter(75/150/300V, 0.5 A)
	Ballistic Galvanometer NV-6107
	Calibration Of Ammeter By Potentiometer NV 6032
	Digital Multimeter
	Energy Meter Trainer NV 7025
	Kelvine Double Bridge AB-60
	Schering bridge trainer kit AB-13
	Schmih Trigger Comparator AB-45
	LPF Wattmeter 2.5/5 A
	LCR meter caddo 9302
	Maxwell capacitance bridge AB-11
	Maxwell Inductance bridge AB-59
	Magnetic Hyteresis Curve Tracer NV-6108
Oscilloscope-08113272	



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	Power Measurement by two wattmeter method Trainer Kit NV-7005
	Spectrum Analyser with Track Generator 0811143,8010TG
Electrical Machine-I Lab	AC Ammeter (1A-2A)
	AC Ammeter (10A-20A)
	AC Ammeter (15A-30A)
	AC Voltmeter(0-600 V)
	AC Voltmeter(75/150/300V)
	AC Wattmeter(150/300/600V, 2-5A)
	AC/DC Distribution Panel
	DC Ammeter (2-5 A)
	DC Voltmeter (0-300V)
	Digital Tachometer
	DC Compound Motor 3HP,12A,220V
	Four point startor
	Three point startor
	DC Shunt Motor 3HP,12A,220V
	DOL Starter
	single phase 1KVA,230v Transformer
	single phase 1KVA,230v Transformer
	single phase 1KVA,230v Transformer
	DC Shunt Generator Motor set 10A ,2.2 kW
	Three point startor
	3-Phase AC SQ Cage Induction Motor 3HP(4-5A)
	Star delta stator
	LPF Wattmeter 1/2A
	UPF Wattmeter 2.5/5A
	Analog Tachometer
	Field Regulator For DC motor - generator set
	Field Regulator For DC motor - generator set
	Loading arrangement compound and squirrel cage induction motor
	1-Phase Induction Motor Trainer Kit-1HP
	Slip ring IM trainer kit with 5HP
	3-phase synchronous generator,440V,1500 rpm
	3-phase synchronous motor,440V,1500 rpm
	Single phase Variac 10 A
	Plier
Rheostat 1200 ohm,0.9 A	
Rheostat 50ohm, 10A	



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Electrical Machine-II Lab & EMPD Lab	AC Ammeter (10A-20A)
	AC Ammeter (15A-30A)
	AC Voltmeter(0-600 V)
	AC Voltmeter(150-300 V)
	AC Wattmeter(150/300/600V, 2-5A)
	DC Ammeter (15-30 A)
	DOL Starter
	Power factor Meter 1/2 A
	1-Phase Induction Motor Trainer Kit-1HP
	3-phase,440v salient pole alternator
	3-phase,440v salient pole synchronous motor
	3-phase, 3HP IM with mechanical load
	Plier
	Rheostat 750 ohm,1.2 A
	single phase 1KVA,230v Transformer
	single phase 1KVA,230v Transformer
	single phase 1KVA,230v Transformer
	Rheostat 100ohm,2A
	3-phase, 3HP IM with variable frequency drive trainer kit
	4KVA,220v DC generator motor set
	3-phase, 3HP IM with brake load
	3KW, 440 V ,1500 rpm Alternator
	3KW, 440 V ,1500 rpm Alternator
	3-phase , 440V 1500 rpm IM with mechanical load
	3-phase , 440V 1500 rpm IM with mechanical load
	3-phase , 440V 1500 rpm IM with mechanical load
3-phase , 440V 1500 rpm IM with mechanical load	
Power Electronics Lab	Digital Multimeter
	Digital Multimeter
	DSO 25 MHz NB 102C
	Oscilloscope-08113274
	single phase full wave AC to DC converter trainer kit
	VI characteristics of SCR
	VI characteristics of TRIAC
	VI characteristics of MOSFET
	VI characteristics of IGBT
	single phase half wave AC to DC converter trainer kit
	single phase AC to DC semiconverter trainer kit
	three phase AC to DC semiconverter trainer kit
single phase PWM inverter trainer kit	



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	Buck converter
	Boost Converter
	Phase shift Oscillator
	single phase full wave AC to DC converter trainer kit
Electrical Drives Lab	Plier
	Oscilloscope-08113275
	Single phase fully controlled AC to Dc Converter trainer kit with Dc shunt motor
	Four quadrant chopper trainer kit with dc shunt motor
	Dual converter trainer kit with dc shunt motor
	Three phase AC to Dc converter with DC shunt motor
	Three phase Inverter trainer kit with 3 hp Induction motor
	Digital Multimeter
	Digital Multimeter
	Three phase AC to DcC convertor trainer kit with DC shunt Motor
	Three phase AC to DcC convertor trainer kit with DC shunt Motor
	Slip ring Induction motor trainer kit with 5HP IM
Power System Lab & EPTD Lab	Transformer oil Test trainer kit
	Three phase transmission line Model trainer kit
	Three phase transmission line Model trainer kit
	UG cable fault locator trainer kit
	ABCD Parameter trainer kit
C LAB	30 Numbers of computer systems (hp). Hardware Specification: Dual core,2gb ram,320 gb hard disk. Software Specification: Windows7,c++
CG LAB	24 Numbers of computer systems .(DELL/ZEBRONIC) Hardware Specification: Dual core/i3,4gb ram,500 gb hard disk.Software Specification: WINDOWS 10,JDK,JFLAP,C++
IWT LAB	24 Numbers of computer systems . (DELL) Hardware Specification: Dual core,4gb ram,1 Tb hard disk Software Specification: WINDOWS 10,C++,ORACLE 10G WINDOWS10
ADVANCE LAB	6 Numbers of computer systems .(DELL) Hardware Specification: Dual core,4gb ram,1 Tb hard disk Software Specification:
NETWORK LAB	30 Numbers of computer systems . Hardware Specification: Dual core,2gb ram,500 Gb hard disk Software Specification: WINDOWS7,CISCO TRACER
DAA LAB	30 Numbers of computer systems . (hp) Hardware Specification: I3,4GB,1TB Software Specification: WINDOWS7,C++



CAPITAL ENGINEERING COLLEGE BHUBANESWAR

OS LAB	10 Numbers of computer systems .(Dell) Hardware Specification: DUAL CORE,4GB,1TB Software Specification: WINDOWS 10,UBUNTU16
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❖ Computing Facilities

- Internet Bandwidth : 300 Mbps
- Number and configuration of System : 453 Nos
- Total number of systems connected by LAN : 336 Nos
- Total number of systems connected by WAN : 117 Nos
- Major software packages available: : 62 Nos
- Special purpose facilities available (Conduct of online Meetings/Webinars/Workshops, etc.) : Available
- Facilities for conduct of classes/courses in online mode (Theory & Practical) : Available
- Innovation Cell : Available
- Social Media Cell : Available
- Compliance of the National Academic Depository (NAD), applicable to PGCM/ PGDM Institutions and University Departments : Available

❖ List of facilities available

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

❖ Teaching Learning Process

- Curricula and syllabus for each of the Programmes as approved by the University <http://www.bput.ac.in/syllabus.html>
- Academic Calendar of the University <http://www.bput.ac.in/academic-calendar.html>
- Academic Time Table with the name of the Faculty members handling the Course <https://cms.cecodisha.edu.in/index.php?r=academics%2Fmytimetable%2Findex>
- Teaching Load of each Faculty <https://cms.cecodisha.edu.in/index.php?r=academics%2Facademicperformancereport%2Findex>
- Internal Continuous Evaluation System and place <https://cms.cecodisha.edu.in/index.php?r=academics%2Fexamination%2Findex>

16. Enrolment and placement details of students in the last 3years

Academic Year	No of students Enrolled	No of students placed
2021-22	382	337
2020-21	376	340
2019-20	352	334

17. List of Research Projects/ Consultancy Works

- Number of Projects carried out, funding agency, Grant received



CAPITAL ENGINEERING COLLEGE BHUBANESWAR

- Publications (if any) out of research in last three years out of masters projects 6
- Industry Linkage 7
- MoUs with Industries (minimum 3(10)) 5

18. LoA and subsequent EoA till the current Academic Year: <https://cecodisha.edu.in/aicte-approval.pdf>

19. Accounted audited statement for the last three years:

https://cecodisha.edu.in/Audited%20account%20Statement_compressed.pdf

20. Best Practices adopted, if any

Objectives of the practice:

1. For building healthy academic and personal relationship between the students and teachers.
2. Enforcing more discipline, more involvement and heart to heart connections with the students.

The Context:

Under this scheme, the students are divided into several small groups (Not more than 15 students in a group) and each group is headed by a teaching staff known as the proctor. The students meet the proctor on scheduled date, time and at places and put forth their difficulties for advice. The proctor looks into the general interest of the students placed under him/her. The proctor remains in frequent touch with the students of his/her group and try to solve their problems both academic and others.

The Practice:

1. The students of the proctorial group shall meet the proctors attest once in a week or as many times as is necessary to sort out the academic problems.
2. The students shall furnish such information to the proctors as required for the maintenance of the proctorial record.
3. No. student should leave headquarters without informing the proctor.
4. No. student can ordinarily meet the principal on official business without the prior permission of the proctor nor can submit any application without his/her recommendation.
5. Any adverse report against a student by the proctor will be seriously viewed.
6. The promotion of the college exam. and issue of the final conduct / T.C/ from the college will be reflected on proctorial records of the student during the period of study in the college.

Evidence of Success:

1. The teacher-student bond became stronger and students felt a home away from home environment at college.
2. Graduate students could able to receive guidance from highly experienced teachers at the crucial period of life.
3. Student attendance improved.
4. Parent-Institute relation strengthened.
5. More discipline observed in the campus.
