



# 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. Chinmaya Ranjan Pattanaik  
Capital Engineering College  
Ph: 9337013247  
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	<b>Sri Badri Narayan Sahoo,</b> Chairman, Bidya Bharati Educational Trust,	Chairman
2	<b>Dr. Chinmaya Ranjan Pattanaik,</b> Principal, Capital Engineering College	Member Secretary (Ex-officio)
3	<b>Sri Biranchi Narayan Sahoo,</b> Secretary, Bidya Bharati Educational Trust,	Member
4	<b>Sri Subha Narayan Sahoo,</b> Trustee, Bidya Bharati Educational Trust,	Member
5	<b>Prof. (Dr) Kali Charan Rath</b> Associate Professor, GIET University (Educationist)	Member
6	<b>Mr. Subhasish Pattanaik</b> Manager (Design), RHE Magnesita	Member
7	<b>Nominee from ERO, AICTE, Kolkata</b> (To be nominated) Request letter already sent	Member
8	<b>Nominee from Biju Patnaik University of Technology</b> (To be nominated) Request letter already sent	Member
9	<b>Nominee from Govt. Of Odisha (Skill Development and Technical Education)</b> (To be nominated) Request letter already sent	Member
10	<b>Prof Achyutananda Mishra,</b> Asso. Proff., Capital Engineering College (Staff representative – Male)	Member
11	<b>Prof Anita Subudhi,</b> Asso. Proff., Capital Engineering College (Staff representative – Female)	Member



# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

❖ **Establishment of Online Grievance Redressal Mechanism:**

<https://docs.google.com/forms/d/e/1FAIpQLSdR17aB989py>

[6kWhsV8nxfmbuAQu5DD9RVo2VIBITiAujThOw/viewform?pli=1](https://6kWhsV8nxfmbuAQu5DD9RVo2VIBITiAujThOw/viewform?pli=1)

❖ **Establishment of Anti Ragging Committee**

<https://cecodisha.edu.in/pdf/antiragging1.pdf>

❖ **Establishment of Grievance Redressal Committee**

<https://cecodisha.edu.in/pdf/grc.pdf>

❖ **Establishment of Internal Complaint Committee (ICC)**

<https://cecodisha.edu.in/pdf/icc.pdf>

❖ **Establishment of Committee for SC/ST**

<https://cecodisha.edu.in/pdf/scst.pdf>

❖ **Internal Quality Assurance Cell**

<https://cecodisha.edu.in/pdf/IQAC.pdf>

## 6. Programmes Details:

❖ **Course Details: (2023-24)**

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	180	As Per AICTE guidelines	59000.00	43.62%
B-tech	CIVIL	4	90		59000.00	35.05%
B-tech	EE	4	120		59000.00	47.80%
B-tech	MECHANICAL	4	120		59000.00	53.25%
B-tech	Mining	4	60		59000.00	NA
MCA	MCA	2	120		40000.00	35.64%
MBA	MBA	2	180		40000.00	42.36%
MBA	GM	2	180		40000.00	38.20%
DIPLOMA	CSE	3	60		26500.00	64.25%
DIPLOMA	CIVIL	3	60		26500.00	46.75%
DIPLOMA	EE	3	120		26500.00	82.36%
DIPLOMA	MECHANICAL	3	120		26500.00	91.40%

❖ **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



# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

## ❖ 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

## 8. Profile of Principal

Name : Dr. Chinmaya Ranjan Pattanaik

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

### Work Experience

Teaching : 25

Research : 2

Industry : 1

others : 3

Area of Specialization : Computer Science Engineering

Courses taught at : Diploma/ Under Graduate/ Post Graduate

### Research guidance(Number of Students)

No. of papers published : 52

Master : Completed

Ph.D. : Completed

Projects Carried out : 12

Patents (Filed & Granted) : 4

Technology Transfer : 2

No. of Books published with details : 6

**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.

**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



# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

(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 Area (Sq Mtr)
1	Office all inclusive	379.89
2	Principal Room	52.60
3	Training & Placement Cell	100.53
4	Security	13.56
5	Housekeeping	14.00
6	Maintenance Room	18.02
7	Central Store	32.41
8	Exam Control Room	37.71
9	Board Room	38.25
10	Course Coordinator Room	14.88
11	Dean Office	32.60
12	Department Office	32.78
13	Department Office	22.91
14	Department Office	24.34
15	Department Office	25.07
16	Department Office	23.26
17	Faculty Room	181.44
18	Faculty Room	32.99
19	Faculty Room	17.41
20	Faculty Room	29.19
21	Faculty Room	48.32
22	Faculty Room	29.19
23	Faculty Room	14.88
24	HOD Room	34.47
25	HOD Room	10.94
26	HOD Room	11.19
27	HOD Room	22.55
28	HOD Room	11.19
29	HOD Room	22.55
Amenity Area		
30	Pantry for Staff	18.02
31	Cafeteria/Canteen	233.98
32	Boy's Toilet	23.76
33	Boy's Toilet	23.76



# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

34	Boy's Toilet	23.76
35	Disabled Toilet	20.00
36	Disabled Toilet	20.00
37	Gent's Toilet	31.40
38	Gent's Toilet	31.40
39	Gent's Toilet	31.40
40	Girl's Toilet	40.00
41	Ladies Toilet	31.40
42	Ladies Toilet	31.40
43	Ladies Toilet	31.40
44	Toilet	40.00
45	Toilet	30.00
46	Toilet	40.00
47	Toilet	30.00
48	Toilet	40.00
49	Toilet	20.00
50	Toilet	15.02
51	Toilet	40.00
52	Toilet	20.00
53	Toilet	40.00
54	Toilet	20.00
55	Statonary Store	14.00
56	First Aid Cum Sick Room	20.60
57	Girl's Coomon Room	101.54
58	Boy's Common Room	100.37
<b>Instructional Area</b>		
<b>UG- Engineering &amp; Technology</b>		
59	Classroom	82.28
60	Classroom	66.09
61	Classroom	66.09
62	Classroom	66.09
63	Classroom	66.09
64	Classroom	66.09
65	Classroom	66.09
66	Classroom	66.09
67	Classroom	66.09
68	Classroom	66.09
69	Classroom	66.09
70	Classroom	66.09
71	Classroom	66.09
72	Classroom	66.09
73	Classroom	66.09
74	Classroom	66.09



# CAPITAL ENGINEERING COLLEGE

## BHUBANESWAR

75	Classroom	66.09
76	Classroom	66.09
77	Tutorial	33.00
78	Tutorial	38.64
79	Tutorial	41.99
80	Tutorial	41.99
81	Tutorial	41.99
82	Tutorial	41.99
83	Laboratory	82.28
84	Laboratory	82.28
85	Laboratory	82.28
86	Laboratory	82.28
87	Laboratory	82.28
88	Laboratory	82.28
89	Laboratory	82.28
90	Laboratory	82.28
91	Laboratory	82.28
92	Laboratory	82.28
93	Laboratory	66.16
94	Laboratory	66.16
95	Laboratory	66.16
96	Laboratory	66.16
97	Laboratory	78.51
98	Laboratory	78.51
99	Laboratory	78.51
100	Laboratory	78.51
101	Laboratory	65.96
102	Laboratory	65.96
103	Laboratory	78.51
104	Laboratory	78.51
105	Laboratory	78.51
106	Laboratory	78.51
107	Laboratory	78.51
108	Laboratory	78.51
109	Laboratory	78.51
110	Laboratory	78.51
111	Laboratory	78.51
112	Laboratory	78.51
113	Laboratory	100.53
114	Laboratory	78.51
115	Laboratory	78.51
116	Laboratory	65.47
117	Laboratory	65.47



# CAPITAL ENGINEERING COLLEGE

## BHUBANESWAR

118	Seminar Hall	153.65
119	Workshop	200.62
120	Additional Workshop	224.92
121	Engineering Drawing Hall	133.70
<b>Diploma- Engineering &amp; Technology</b>		
122	Classroom	66.09
123	Classroom	66.09
124	Classroom	66.16
125	Classroom	66.16
126	Classroom	66.16
127	Classroom	66.16
128	Classroom	66.16
129	Classroom	66.16
130	Classroom	66.16
131	Classroom	66.16
132	Classroom	66.16
133	Tutorial	34.47
134	Tutorial	31.40
135	Tutorial	33.00
136	Laboratory	65.47
137	Laboratory	78.51
138	Laboratory	78.51
139	Laboratory	78.51
140	Laboratory	78.51
141	Laboratory	78.51
142	Laboratory	78.51
143	Laboratory	78.51
144	Laboratory	78.51
145	Laboratory	78.51
146	Laboratory	78.51
147	Laboratory	100.53
148	Laboratory	78.51
149	Laboratory	78.51
150	Laboratory	78.51
151	Laboratory	68.28
152	Laboratory	78.51
153	Laboratory	78.51
154	Laboratory	78.51
155	Laboratory	78.51
156	Seminar Hall	133.70
157	Workshop	200.62
158	Additional Workshop	200.62
159	Engineering Drawing Hall	134.72



# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

<b>Management- PG (MBA)</b>		
160	Classroom	66.16
161	Classroom	81.29
162	Classroom	66.16
163	Classroom	66.16
164	Classroom	78.51
165	Classroom	78.51
166	Classroom	72.39
167	Classroom	72.39
168	Classroom	72.39
169	Classroom	72.39
170	Classroom	72.39
171	Classroom	72.39
172	Classroom	72.39
173	Classroom	72.39
174	Tutorial	35.16
175	Tutorial	35.16
176	Tutorial	35.16
177	Tutorial	35.16
178	Computer Centre	153.65
179	Language Lab	34.47
180	Seminar Hall	133.70
<b>Computer Application- PG (MCA)</b>		
181	Classroom	66.16
182	Classroom	66.16
183	Classroom	72.39
184	Classroom	72.39
185	Tutorial	33.94
186	Computer Centre	153.65
187	Computer Lab	78.51
188	Computer Lab	100.53
189	Language Lab	34.47
190	Seminar Hall	194.75
<b>Instructional common Area</b>		
191	Library & Reading Room	814.70
192	Computer Centre	229.14
193	Language Lab	66.09
194	Computer Centre	158.34
195	Circulation Area	3815.36
	<b>Grand Total</b>	<b>17857.6496</b>

Barrier Free Built Environment for disabled and elderly persons

: Available in each building





# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

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	:4327
Total No of Volumes	:34650

### • Journal Details:

Total No of National Journals	:62
Total No of International Journals	:28
E-journals available	:60

### • Other Details:

No of Computers available in E-Library	:20
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
	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



# CAPITAL ENGINEERING COLLEGE

## BHUBANESWAR

	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
	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



# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

	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
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



# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

	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
	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



# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

	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)
	ISDN
	CDMA trainer
Digital Signal Processing	Tms320c6713 Based DSP Trainer , Sl-644
	TMS320C6713 Based DSP Trainer , Sl-6713
	TMS320C6713 Based DSP Trainer , Vsk-6748 ,Sl-3
	TMS 320C6748 Based DSP Trainer, Sl No-4
	TMS 320C6748 Based DSP Trainer, Sl No-5
	TMS 320C6748 Based DSP Trainer, Sl No-6
	TMS 320C6748 Based DSP Trainer, Sl No-8
	TMS 320C6748 Based DSP Trainer, Sl No-8



# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

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
	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



# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

	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
	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 <sup>3</sup> /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



# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

	Function Generator
	Multimeter[Vc-97], Sl. No-82,83,86,79,58,88
	DC Current Meter (Digital)
Digital Electronic Circuit	Binary Adder/Subtractor [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
	Resistive 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
	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-





# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

	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
	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)



# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

	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
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



# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

	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
	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



# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

	Dual convertor trainer kit with dc shunt motor
	Three phase AC to Dc convertor 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++
OS LAB	10 Numbers of computer systems .(Dell) Hardware Specification: DUAL CORE,4GB,1TB Software Specification: WINDOWS 10,UBUNTU16

## ❖ Computing Facilities

- Internet Bandwidth : 1 GBPS
- Number and configuration of System : 535 Nos



# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

- Total number of systems connected by LAN : 336 Nos
- Total number of systems connected by WAN : 219 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 : N/A

## ❖ 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>

## 17. List of Research Projects/ Consultancy Works

- Number of Projects carried out, funding agency, Grant received 3
- 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](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.



# CAPITAL ENGINEERING COLLEGE BHUBANESWAR

---

## **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 atleast 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.

\*\*\*\*\*