

NATIONAL BOARD OF ACCREDITATION

Data Capturing Points of the Program Applied for NBA Accreditation– Tier I/II UG (Engineering) Institute Programs

Program Name : Electrical Engineering	Discipline: Engineering & Technology
Level : Under Graduate	Tier: 2
Application No: 12097	Date of Submission: 25-08-2026

PART A- Profile of the Institute

A1.Name of the Institute: NAGESH KARAJAGI ORCHID COLLEGE OF ENGINEERING AND TECHNOLOGY SOLAPUR	
Year of Establishment : 2008	Location of the Institute: Solapur
A2. Institute Address:Gut No. 16, Solapur-Tuljapur Road, Tale Hipparaga, Solapur. Tahsil- North Solapur, Dist. Solapur. Pin Code- 413 002. Maharashtra.	
City:Sholapur	State:Maharashtra
Pin Code:413002	Website:www.orchidengg.ac.in
Email:office@orchidengg.ac.in	Phone No(with STD Code):0217-2990051
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Dr Babasaheb Ambedkar Technological University	City: Raigad
State : Maharashtra	Pin Code: 402103
A4. Type of the Institution: Autonomous CAY(2024-25)	
A5. Ownership Status: Self financing	

A6. Details of all Programs being Offered by the Institution:

- No. of UG programs: 6
- No. of PG programs: 5

Table No. A6.1: List of all programs offered by the Institute.

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Artificial Intelligence and Data Science	2021	--	Computer Science and Engineering
2	Engineering & Technology	UG	Civil Engineering	2008	--	Civil Engineering
3	Engineering & Technology	PG	Computer Aided Structural Analysis & Design	2012	--	Civil Engineering
4	Engineering & Technology	PG	Computer Science and Engineering	2012	2022	Computer Science and Engineering
5	Engineering & Technology	UG	Computer Science and Engineering	2008	--	Computer Science and Engineering
6	Engineering & Technology	PG	Electric Vehicle Technology	2024	--	Mechanical Engineering
7	Engineering & Technology	UG	Electrical Engineering	2011	--	Electrical Engineering
8	Engineering & Technology	PG	Electronics and Telecommunication Engineering	2013	2022	Electronics and Telecommunication Engineering

9	Engineering & Technology	UG	Electronics and Telecommunication Engineering	2008	--	Electronics and Telecommunication Engineering
10	Engineering & Technology	UG	Mechanical Engineering	2008	--	Mechanical Engineering
11	Engineering & Technology	PG	Thermal Engineering	2013	--	Mechanical Engineering

A7. Programs to be considered for Accreditation vide this Application:

Table No. A7.1: List of programs to be considered for accreditation.

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Civil Engineering	No	Civil Engineering	UG
Mechanical Engineering	No	Mechanical Engineering	UG
Computer Science and Engineering	Yes	Computer Science and Engineering	UG
Electronics and Telecommunication Engineering	No	Electronics and Telecommunication Engineering	UG
Electrical Engineering	No	Electrical Engineering	UG

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.
Cluster ID. Name of the Department (in table no. A7.1) Name of allied Departments/Cluster (for table no. A7.1)

No Record

PART-B: Program information

B1. Provide the Required Information for the Program Applied For:

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/ DECREASE INTAKE (if any)	YEAR OF INCREASE/ DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Electrical Engineering	UG	2011 / --	60	No	NA	60	2011	F.No. Western/1-421232722/2011/ EOA Date: 01-09-2011	Applying first time	--	--	0	4

List of the Allied Departments/Cluster and Programs:

B2. Detail of Head of the Department for the program under consideration:

A. Name of the HoD :	Dr. P. R. Padghan
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

Table No.B3.1: Admission details for the program excluding those admitted through multiple entry and exit points.

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE / Competent authority)	60	60	60	60	60	60	30
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	60	54	55	60	26	24	22
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	15	15	10	45	48	12
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	9	9	9	5	4	5	2
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	69	78	79	75	75	77	36

CAY= Current Academic Year. CAYm1= Current Academic Year Minus 1 CAYm2= Current Academic Year Minus 2. LYG= Last Year Graduate. LYGm1= Last Year Graduate Minus 1. LYGm2= Last Year Graduate Minus 2.

B4. Enrolment Ratio in the First Year

Table No. B4.1: Student enrolment ratio in the 1st year.

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	60	60	9	115.00
2024-25 (CAYm1)	60	54	9	105.00
2023-24 (CAYm2)	60	55	9	106.67

Average [(ER1 + ER2 + ER3) / 3] = 108.89≡ 100

B5. Success Rate of the Students in the Stipulated Period of the Program

Table No.B5.1: The success rate in the stipulated period of a program.

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	75.00	77.00	36.00
B=No. of students who graduated from the program in the stipulated course duration	69.00	74.00	34.00
Success Rate (SR)= (B/A) * 100	92.00	96.10	94.44

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 94.18

B6. Academic Performance of the First-Year Students of the Program

Table No.B6.1: Academic Performance of the First-Year Students of the Program.

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
X=(Mean of 1st year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 1st year/10)	8.31	7.02	7.32

Y=Total no. of successful students	55.00	53.00	60.00
Z=Total no. of students appeared in the examination	63.00	64.00	65.00
API [X*(Y/Z)]	7.25	5.81	6.76

Average API[(AP1+AP2+AP3)/3] : 6.61

B7: Academic Performance of the Second Year Students of the Program

Table No.B7.1: Academic Performance of the Second Year Students of the Program.

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	7.40	6.72	7.31
Y=Total no. of successful students	62.00	65.00	70.00
Z=Total no. of students appeared in the examination	68.00	70.00	72.00
API [X * (Y/Z)]	6.75	6.24	7.11

Average API [(AP1 + AP2 + AP3)/3] : 6.70

B8. Academic Performance of the Third Year Students of the Program

Table No.B8.1: Academic Performance of the Third Year Students of the Program

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.10	7.57	7.70
Y=Total no. of successful students	65.00	69.00	74.00
Z=Total no. of students appeared in the examination	65.00	70.00	74.00
API [X*(Y/Z)]:	7.10	7.46	7.70

Average API [(AP1 + AP2 + AP3)/3] : 7.42

B9. Placement, Higher Studies, and Entrepreneurship

Table No.B9.1: Placement, higher studies, and entrepreneurship details.

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	75.00	77.00	36.00
X=No. of students placed	59.00	61.00	28.00
Y=No. of students admitted to higher studies	1.00	0.00	0.00
Z= No. of students taking up entrepreneurship	1.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	81.33	79.22	77.78

Average Placement Index = (P_1 + P_2 + P_3)/3: 79.44 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments
(Data to be filled in for the Department and Allied Departments)

C1. Faculty details of Department and Allied Departments

Table No.C1: Faculty details in the Department for the past 3 years including CAY

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Dr. V. S. Shirval	XXXXXXX55N	Ph.D	Shivaji University , Kolhapur	Electronics Engg.	01/07/2008	18.1	Assistant Professor	Professor	01/04/2021	Regular	Yes		No
2	Dr. P. R. Padghan	XXXXXXX04D	Ph.D	National Institute of Technology, Trichy	Electrical Power System	23/02/2026	0.5	Associate Professor	Associate Professor	23/02/2026	Regular	Yes		Yes
3	Mr. A.J. Mehta	XXXXXXX37E	M.E.	Savitribai Phule Pune University, Pune	Power Electronics & drives	28/07/2014	12	Assistant Professor	Assistant Professor		Regular	Yes		No
4	Mr. V.B. Bhosale	XXXXXXX19M	MS	Wroclaw University of Technology, Poland	Control in Electrical Power Engineering	09/01/2015	10.8	Assistant Professor	Assistant Professor		Regular	No	13/09/2025	No
5	Mr. I. I. Mujawar	XXXXXXX05E	M.Tech	Shivaji University , Kolhapur	Electrical Power System	01/04/2017	6.4	Assistant Professor	Assistant Professor		Regular	No	18/08/2023	No
6	Mr. D.D. Pawar	XXXXXXX66Q	M.Tech	Shivaji University , Kolhapur	Electrical Power System	06/01/2017	9.7	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Mr. J.B. Patil	XXXXXXX68H	M.E.	Solapur University , Solapur	Electrical Engineering	14/03/2022	4.5	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Mr. P. B. Sakhare	XXXXXXX68B	M.Tech	Savitribai Phule Pune University	Power Electronics & Power system	25/08/2022	4	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Mr. K. B. Tamboli	XXXXXXX05G	M.Tech	Dr. Babasaheb Ambedkar Marathwada University (BAMU)	Electrical Machine & Drive	25/08/2022	2.11	Assistant Professor	Assistant Professor		Regular	No	14/08/2025	No
10	Dr. K. S. Namami	XXXXXXX53L	Ph.D	University Institute of Technology RGPV Bhopal	Electrical Engineering	10/03/2022	1.3	Associate Professor	Associate Professor	10/03/2022	Regular	No	12/06/2023	No
11	Mr. A. B. Auti	XXXXXXX26R	M.E.	Shivaji University , Kolhapur	Electrical Power System	22/02/2023	3.6	Assistant Professor	Assistant Professor		Regular	Yes		No

12	Ms. M. P. Kokare	XXXXXXXX23F	M.Tech	Shivaji University , Kolhapur	Electrical Power System	07/08/2023	1.9	Assistant Professor	Assistant Professor		Regular	No	31/05/2025	No
13	Dr. B. Sampath kumar	XXXXXXXX00E	Ph.D	Osmania University , Hyderabad	Electrical & Electronics	25/08/2023	2.8	Assistant Professor	Associate Professor	25/08/2025	Regular	No	30/04/2026	No
14	Mr. CH Mallareddy	XXXXXXXX32R	M.Tech	Shivaji University , Kolhapur	Electrical Power System	25/08/2023	3	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Mr. S. S. Rashinkar	XXXXXXXX07J	M.E.	Dr. Babasaheb Ambedkar Marathwada University (BAMU), Ch. Sambhajinagar	Control System	24/12/2025	0.7	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Ms. A. L. Barkade	XXXXXXXX89R	M.Tech	Dr. Babasaheb Ambedkar Technological University , Lonere.	Electrical Engineering	16/06/2026	0.2	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Mr. S. D. Yelgatte	XXXXXXXX16J	M.E.	Swami Ramanand Teerth Marathwada University (SRTMU), Nanded	Electrical Power System	23/02/2026	0.3	Assistant Professor	Assistant Professor		Regular	No	01/06/2026	No
18	Mr. S. S. Kawade	XXXXXXXX07A	M.Tech	Dr. Babasaheb Ambedkar Technological University , Lonere.	Electrical Power System	11/04/2026	0.4	Assistant Professor	Assistant Professor		Regular	Yes		No

Table No.C2: Faculty details of Allied Departments for the past 3 years including CAY.

C2. Student-Faculty Ratio (SFR)

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):

UG1=1st UG program

UGn=nth UG program

B= No. of Students in UG 2nd year (ST)**C**= No. of Students in UG 3rd year (ST)**D**= No. of Students in UG 4th year (ST)

No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):

PG1=1st PG program.

PGm=mth PG program

A= No. of Students in PG 1st year**B**= No. of Students in PG 2nd yearStudent Faculty Ratio (**SFR**) = S/F

S= No. of students of all programs in the Department including all students of allied departments/clusters.

No. of students (ST)=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)

Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.

F=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

No. of UG Programs in the Department1 No. of PG Programs in the Department0

Table No.C2.1: Student-faculty ratio.

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	66	66	66
UG1.C	66	66	66
UG1.D	66	66	66
UG1: Electrical Engineering	198	198	198
DS=Total no. of students in all UG and PG programs in the Department	198	198	198
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 198	S2= 198	S3= 198
DF=Total no. of faculty members in the Department	8	11	11
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 8	F2= 11	F3= 11
FF=The faculty members in F who have a 100% teaching load in the first-year courses	1	1	1
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 28.29	SFR2= 19.80	SFR3= 19.80
Average SFR for 3 years	SFR= 22.63		

C3. Faculty Qualification

- Faculty qualification index (FQI) = $2.5 * [(10X + 4Y)/RF]$ where
- X=No. of faculty members with Ph.D. degree or equivalent as per AICTE/UGC norms.
- Y=No. of faculty members with M. Tech. or ME degree or equivalent as per AICTE/ UGC norms.
- RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section C2 of this documents: (RF=S/20).

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	$FQ = 2.5 \times [(10X + 4Y) / RF]]$
2025-26(CAY)	2	6	9.00	12.22
2024-25(CAYm1)	1	10	9.00	13.89
2023-24(CAYm2)	1	10	9.00	13.89

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents.}$
- RF2= No. of Associate Professors required = $2/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents.}$
- RF3= No. of Assistant Professors required = $6/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents.}$
- Faculty cadre and qualification and experience should be as per AICTE/UGC norms.

Table No.C4.1: Faculty cadre proportion details.

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	1.00	1.00	2.00	1.00	7.00	6.00
2024-25	1.00	1.00	2.00	0.00	7.00	10.00
2023-24	1.00	1.00	2.00	0.00	7.00	10.00
Average	RF1=1.00	AF1=1.00	RF2=2.00	AF2=0.33	RF2=7.00	AF2=8.67

C5. Visiting/Adjunct Faculty/Professor of Practice

Table No. C5.1: List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. Prajwal Wahane	Corporate Trainer	Giri Tech Hub Private Limited, Pune	Technical Aptitude	72.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. Laxmikant Shinde	Corporate Trainer	APT-Tech Solution, Kolhapur	Quantitative Aptitude	72.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. Sumit Suradkar	Corporate Trainer	Giri Tech Hub Private Limited, Pune	Technical Aptitude	66.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	4	7	4
2	No. of peer reviewed conference papers published	5	3	0
3	No. of books/book chapters published	0	1	0

C7. Sponsored Research Project

Table No. C7.1: List of sponsored research projects received from external agencies.

(CAYm1)

(CAYm2)

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr.Namami Krishna Sharma	Prof.Dr.Vijaykumar Shirwal	Electrical	Intelligent Hybrid Electrical Vehicle	RGST University Scheme	2 years	2.50
						Amount received (Rs.):2.50

Total Amount (Lacs) Received for the Past 3 Years: 2.50**Note*:**

- Only sponsored research projects will be considered. Infrastructure-based projects will not be considered here.

C8. Consultancy Work

Table No. C8.1: List of consultancy projects received from external agencies.

(CAYm1)

(CAYm2)

(CAYm3)

Total amount (Lacs) received for the past 3 years:**Note*:**

- Only consultancy projects will be considered. Infrastructure-based projects will not be considered here.

C9. Institution Seed Money or Internal Research Grant to its Faculty for Research Work

Table No. C9.1: List of faculty members received seed money or internal research grant from the Institution.

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Prof.B Samapthkumar	Paper publication	1 year	0.04	0.04	Paper Published in Scopus Indexing Journal
Prof.Viraj Bhosale	Paper publication	1 Day	0.03	0.03	Paper Publication in International Conderence
Prof.Viraj Bhosale	Paper publication	1 Day	0.04	0.04	Paper Publication in International Conderence
			Amount received (Rs.): 0.11		

(CAYm2)

(CAYm3)

Total amount (Lacs) received for the past 3 years : 0.11**PART D: Laboratory Infrastructure in the Department****(Data to be filled in for the Department)****D1. Adequate and Well-Equipped Laboratories, and Technical Manpower**

Table No.D1.1: List of laboratories and technical manpower.

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Electrical Drives and Control System	20	1.VSI-Fed 3-Phase Induction Motor Speed Control Kit 2. ThreePhase Controlled Bridge Rectifier Fed DC Motor Drive 3.Static Phase Converter Fed DC Motor Drive	SEM-I : 6 hours	Mr. S.S. Kore	Laboratory Assistant	Bachelors in Electronics
2	Electrical Measurement & Power Electronics	20	1.Three-Phase Lamp Bank with Two-Wattmeter Power Measurement Setup 2.Three Phase Dimmer (40A) 3.Schering Bridge for Capacitance	SEM-I : 8 hours	Ms. K.V.Bhosale	Laboratory Assistant	Bachelors in Electronics
3	Switchgear & Protection and Electrical Network Theory	20	1.Transformer with Protection (3KVA, 415/415V) 2.Current Transformer (5A & 1A) 3.Potential Transformer (10/200V) 4.D.C. Supply (Parallel)	SEM-I : 8 hour	Ms. S.A.Sindagi	Laboratory Assistant	Diploma in Electrical Er
4	Analog & Digital Electronics and Project	20	1.Nvis 6550 Digital ICs Trainer Kit – Logic Gates, Adders, Subtractors, MUX/DEMUX, Flip-Flops & Counters 2.Function Generator FG 5000 3.A.M.U	SEM-I : 6 hour	Ms.S.A.Sindagi	Laboratory Assistant	Diploma in Electrical Er
5	Computational -I	20	1.HP Pro 400 MT Desktop Computer, Intel Core i7-13700 (13th Gen), 2.10 GHz 2.Microtek UPS (Uninterruptible Power Supply) 3. Fide CME Battery (Control)	SEM-I : 6 hour	Mr.S.S. Kore	Laboratory Assistant	Bachelors in Electronics
6	Computational -II	20	1.Lenovo ThinkCentre M720 Desktop Computer, Intel Core i3 (9th Gen) 2.Microtek UPS (Uninterruptible Power Supply) 3. Fide CME Battery (Control)	SEM-I : 6 hour	Ms.K.V.Bhosale	Laboratory Assistant	Bachelors in Electronics
7	Electrical Machines-I	20	1.DC Shunt Motor–Generator Set (3 HP Motor, 2.2 kV Generator) 2.DC Shunt Machines coupled with each other (2HP, 220V, 1500 rpm) 3.DC Shunt Motor	SEM-I : 8 hours	Mr. S.G. Kore	Technical Assistant	ITI Electrician
8	Electrical Machines-II	20	1.Synchronous Motor–DC Shunt Generator Set (3HP, 415V, 1500 rpm Motor; 2.2KW, 220V Generator) 2.Shunt Wound DC Motor 3.Phase Alternator Set	SEM-II : 8 hour	Mr. S.G. Kore	Technical Assistant	ITI Electrician

D2. Safety Measures in Laboratories

Table No. D2.1: List of various safety measures in laboratories.

Sr. No	Laboratory Name	Safety Measures
1	Electrical Machines-I	Basic Safety Measures: • Fire extinguisher • First-aid facility • Safety Do's and Don'ts board • Proper ventilation and housekeeping Laboratory-Specific Safety Measures: • Electrical circuits protected by MCBs • Proper earthing of electrical equipment • Safety floor rubber insulating mats near machine panels • Rubber gloves for electrical safety • Board showcasing First Aid Treatment for Electric Shock
2	Electrical Machines-II	Basic Safety Measures: • Fire extinguisher • First-aid facility • Safety Do's and Don'ts board • Proper ventilation and housekeeping Laboratory-Specific Safety Measures: • Electrical circuits protected by MCBs • Proper earthing of electrical equipment • Safety floor rubber insulating mats near machine panels • Rubber gloves for electrical safety • Board showcasing First Aid Treatment for Electric Shock
3	Electrical Drives and Control System	Basic Safety Measures: • Fire extinguisher • First-aid facility • Safety Do's and Don'ts board • Proper ventilation and housekeeping Laboratory-Specific Safety Measures: • Electrical circuits protected by MCBs • Proper earthing of drive equipment • Insulating rubber mats near electrical panels • Rubber gloves for electrical safety • Board showcasing First Aid Treatment for Electric Shock

4	Electrical Measurement & Power Electronics	Basic Safety Measures: • Fire extinguisher • First-aid facility • Safety Do's and Don'ts board • Proper ventilation and housekeeping Laboratory-Specific Safety Measures: • Electrical circuits protected by MCBs • Proper earthing of electrical equipment • Periodic calibration of measuring instruments • Insulating rubber mats near electrical panels • Board showcasing First Aid Treatment for Electric Shock
5	Switchgear & Protection Lab and Electrical Network Theory	Basic Safety Measures: • Fire extinguisher • First-aid facility • Safety Do's and Don'ts board • Proper ventilation and housekeeping Laboratory-Specific Safety Measures: • Electrical circuits protected by MCBs/MCCBs • Proper earthing of electrical equipment • Insulating rubber mats near panels • Rubber gloves for electrical safety • Board showcasing First Aid Treatment for Electric Shock
6	Analog & Digital Electronics and Project	Basic Safety Measures: • Fire extinguisher • First-aid facility • Safety Do's and Don'ts board • Proper ventilation and housekeeping Laboratory-Specific Safety Measures: • Electrical circuits protected by MCBs • Proper earthing of electrical equipment • Board showcasing First Aid Treatment for Electric Shock
7	Computational -I	Basic Safety Measures: • Fire extinguisher • First-aid facility • Safety Do's and Don'ts board • Proper ventilation and housekeeping Laboratory-Specific Safety Measures: • Electrical circuits protected by MCBs • Proper earthing of electrical equipment • UPS backup facility provided
8	Computational -II	Basic Safety Measures: • Fire extinguisher • First-aid facility • Safety Do's and Don'ts board • Proper ventilation and housekeeping Laboratory-Specific Safety Measures: • Electrical circuits protected by MCBs • Proper earthing of electrical equipment • UPS backup facility provided

D3. Project Laboratory/Research Laboratory

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PART E: First Year faculty and financial Resources**(Data to be filled in for the first year course faculty and budget allocation and utilization)****E1. First Year Student-Faculty Ratio (FYSFR)**

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= (No. of faculty members ((NS1*0.8)+(NS2*0.2)))/(No. of required faculty (RF4)); Percentage=((NS1*0.8)+(NS2*0.2))/RF
2023-24(CAYm2)	540	27	13	7	44
2024-25(CAYm1)	540	27	15	7	50
2025-26(CAY)	540	27	19	7	61

E2. Budget Allocation, Utilization, and Public Accounting at Institute Level

Table No. E2.1: Budget and actual expenditure incurred at Institute level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
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Infrastructure Built-Up	44396000	29243550	24292000	14857138	68719000	59469871	24814000	18779528
Library	660000	12535	750000	387101	785000	300059	1000000	302080
Laboratory equipment	23847000	960438	18686000	2500361	20155000	15520993	20189000	16473208
Teaching and non-teaching staff salary	184155000	194811273	163346000	157441427	128516000	153093586	112404000	120984638
Outreach Programs	1186000	1420298	1430000	1682194	1338000	1742393	1112000	1688446
R&D	3970000	6276330	2839000	7226737	2458000	5163598	1796000	3663333
Training, Placement and Industry linkage	2430000	2339801	2430000	1000067	2480000	935538	2374000	2824714
SDGs	3500000	3342544	2500000	2316422	1500000	1524302	2500000	2525711
Entrepreneurship	600000	519948	600000	553860	50000	36642	50000	68218
Other Secify	40167000	30959517	33584000	25318398	43581000	37734958	26806000	34183335
Total	304911000	269886234	250457000	213283705	269582000	275521940	193045000	201493211

E3. Budget Allocation, Utilization, and Public Accounting at Program Specific Level

Table No. E3.1: Budget and actual expenditure incurred at program level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Laboratory equipment	1223500	0	4741147	0	2499647	174709	920000	0
Software	600000	80280	121240	200600	249000	48982	221000	0
SDGs	500000	403067	300000	271872	300000	192952	200000	327558
Support for faculty development	140000	481919	91000	642871	81000	268390	19000	804592
R & D	195000	40698	344000	194986	125000	0	113000	0
Industrial Training, Industry expert, Internship	60000	4000	55000	0	52000	0	15000	0
Laboratory Repairs and Consumables	108450	0	977000	12820	135450	50721	33000	5306
Total	2826950	1009964	6629387	1323149	3442097	735754	1521000	1137456