

NATIONAL BOARD OF ACCREDITATION

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

PART-A: Profile of the Institute

Name of the Program Applied for: UG- Electrical and Electronics Engineering

A1: Name of the Institute: - AMC Engineering College

Year of Establishment: 1999

Location of the Institute: Bannerghatta
Main Road, Bengaluru

A2: Institute Address: -

City : Bengaluru

State : Karnataka

Pin Code : 560083

Website:
[https://amcwebsite.clickcra
wl.net](https://amcwebsite.clickcra wl.net)

E-mail :
principal@amceducation.in

Phone No (with STD Code):
+91 9902044111

A3: Name and Address of the Affiliating University (If any): -

Name of the University : Visvesvaraya Technological University City : Belagavi

State : Karnataka Pin Code: 5900 018

A4: Type of the Institution: - (Tick the applicable choice)

Institute of National Importance

☐

Deemed University

☐

University

☐

Autonomous

☐

Non-Autonomous (Affiliated)

☒

Any other (Please specify) *

☐

***Provide Details:** _____

A5: Ownership Status: - (Tick the applicable choice)

Central Government

☐

State Government

☐

Government Aided

☐

Self-financing

☒

Any Other (Please specify) *

☐

***Provide Details:** _____

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

❖ No. of UG programs: 11

❖ No. of PG programs: 07

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

S.N.	Level of program (UG/PG)	Name of the program	Year of Start	Year close*	Name of the Department
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1.	UG	Computer Science and Engineering	1999		Computer Science and Engineering
2.	UG	Electronics & Communication Engineering	1999		Electronics & Communication Engineering
3.	UG	Electrical and Electronics Engineering	2004		Electrical and Electronics Engineering
4.	UG	Aeronautical Engineering	2020		Aeronautical Engineering
5.	UG	Artificial Intelligence and Machine Learning	2020		Artificial Intelligence and Machine Learning
6.	UG	Civil Engineering	2013		Civil Engineering
7.	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2021		Computer Science and Engineering (Artificial Intelligence & Machine Learning)
8.	UG	Computer Science and Engineering (Data Science)	2021		Computer Science and Engineering (Data Science)
9.	UG	Mechanical Engineering	2004		Mechanical Engineering
10.	UG	Information Science & Engineering	1999	Merged with CSE in 2025	Information Science & Engineering
11.	UG	Mechatronics Engineering	2004	2022	Mechatronics Engineering
12.	PG	VLSI Design & Embedded Systems	2012		Electronics & Communication Engineering
13.	PG	Digital Electronics & Communication Engineering	2004		Electronics & Communication Engineering
14.	PG	Computer Science and Engineering	2004		Computer Science and Engineering
15.	PG	Data Science	2021		Information Science & Engineering
16.	PG	Machine Design	2012		Mechanical Engineering
17.	PG	Master of Business Administration	2001		Master of Business Administration
18.	PG	Master in Computer Applications	2000		Master in Computer Applications

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

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

Cluster ID.	Name of the Department	Name of the Program
1.	Computer Science and Engineering	UG- Computer Science and Engineering
2.	Electronics & Communication Engineering	UG-Electronics & Communication Engineering
3.	Electrical and Electronics Engineering	UG-Electrical and Electronics Engineering
4.	Master in Computer Applications	PG: Master in Computer Applications

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)
1.	Computer Science and Engineering	Artificial Intelligence and Machine Learning
2.	Computer Science and Engineering	Computer Science and Engineering (Artificial Intelligence & Machine Learning)
3.	Computer Science and Engineering	Computer Science and Engineering (Data Science)
4.	Computer Science and Engineering	Information Science & Engineering

PART-B: Program information

(Data to be filled in for the program applied for Accreditation)

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

Table No. B1: Program details.

S. N.	Program Name	Year of start	Sanctioned Intake	Increase/decrease in intake, if any	Year increase/decrease	AICTE Approval Details	Accreditation Status*	No. of times program accredited
1.	Electrical & Electronics Engineering	2004	30	30	2004	770:53:270 (E) / ET / 99	1.Granted accreditation for 3 years (9.6.2018 to 30-6-2021)	1 Time
				60	2012:13	South – West / 1-758186832 / 2012 / EOA	2. Continued accreditation for 1 year (1.10.21 to 30.6.22)	
				30	2024:25	South-West/1-43665517401/ 2024/EOA		

* Write applicable one:

- ❖ Applying first time
- ❖ Granted accreditation for 2/3 years for the period (specify period)
- ❖ Granted accreditation for 5/6 years for the period (specify period)
- ❖ Not accredited (specify visit dates, year).
- ❖ Withdrawn (specify visit dates, year)
- ❖ Not eligible for accreditation.

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

A. Name of the HoD :Dr.Kothai Andal C

B. Nature of appointment: (Tick the applicable choice)

- ❖ Regular ☒
- ❖ Contract ☐
- ❖ Ad hoc ☐

C. Qualification: (Tick the applicable choice)

❖ **Ph.D.** ☒

❖ **ME/M.Tech** ☐

❖ **Any other*** ☐

****Please provide details:*** _____

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

Item (Information is to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY 2024-25	CAYm1 2023-24	CAYm2 2022-23	CAYm3 2021-22	CAYm4 (LYG) 2020-21	CAYm5 {LYGm 1} 2019-20	CAYm6 (LYGm2) 2018-19
N= Sanctioned intake of the program (as per AICTE /Competent authority)	30	60	60	60	60	60	60
N1= Total no. of students admitted in the 1 st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	26	58	31	19	16	32	37
N2= Number of students admitted in 2 nd year in the same batch via lateral entry including leftover seats	-	-	-	-	-	-	-
N3= Separate division if any	-	-	-	-	-	-	-
N4= Total no. of students admitted in the 1 st year via all supernumerary Quotas	0	0	0	0	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	26	58	31	19	16	32	37

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.

Item (Students enrolled in the First Year on average over 3 academic years (CAY, CAYm1, and CAYm2))	CAY (2024-25)	CAY m1 (2023-24)	CAY m2 (2022-23)
N= Sanctioned intake of the program in the 1 st year (as per AICTE/Competent authority)	30	60	60
N1= Total no. of students admitted in the 1 st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	26	30	23
N4= Total no. of students admitted in the 1 st year via all supernumerary quotas	0	0	0
Enrolment Ratio (ER)= (N1+N4)/N	ER_1=86.66	ER_2=50	ER_3=38.33
Average ER= (ER_1+ ER_2+ ER_3)/3	58.33		

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	LYG (2023-24)	LYGm1 (2022-23)	LYGm2 (2021-22)
A* = (No. of students admitted in the 1 st year of that batch and those actually admitted in the 2 nd 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).	19	16	32
B=No. of students who graduated from the program in the stipulated course duration	9	7	29
Success Rate (SR)= (B/A)*100	47.36	43.75	93.54
Average SR of three batches ((SR_1+SR_2+ SR_3)/3)	61.55		

Note *: If the value of A in Table No. B5.1 is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of A in Table No.B5.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2) of Table No.B3.1.

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-20)
X= (Mean of 1 st 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 1 st year/10)	6.218	6.203	4.85
Y= Total no. of successful students	32	25	16
Z = Total no. of students appeared in the examination	32	25	17
API = X* (Y/Z)	6.218	6.203	4.56
Average API = (API_1 + API_2 + API_3)/3	5.65		

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-20)
X= (Mean of 2 nd 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 2 rd year/10)	6.22	4.02	6.12
Y= Total no. of successful students	31	19	16
Z =Total no. of students appeared in the examination	31	19	16
API = X* (Y/Z)	6.22	4.02	6.12

Average API = (API_1 + API_2 + API_3)/3	5.45
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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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-20)
X= (Mean of 3 rd 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 3 rd year/10)	7.09	5.67	7.42
Y= Total no. of successful students	19	16	32
Z= Total no. of students appeared in the examination	19	16	32
API = X* (Y/Z)	7.09	5.67	7.42
Average API = (API_1 + API_2 + API_3)/3	6.72		

B9: Placement, Higher Studies, and Entrepreneurship**Table No.B9.1:** Placement, higher studies, and entrepreneurship details.

Item	LYG (2023-24)	LYGm1 (2022-23)	LYGm2 (2021-22)
FS*=Total no. of final year students	19	16	32
X= No. of students placed	8	7	19
Y= No. of students admitted to higher studies	1	1	2
Z= No. of students taking up entrepreneurship	-	1	-
X + Y + Z =	9	8	18
Placement Index (P) = (((X + Y + Z)/FS) * 100)	47.36	56.25	65.62
Average placement index = (P_1 + P_2 + P_3)/3	56.41		

Note *: If the value of FS in Table No. B9.1 is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of FS in Table No. B9.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2) of Table No.B3.1.

PART C: Faculty Details in Department and Allied Departments(Data to be filled in for the **Department and Allied Departments**)**Faculty details of Department and Allied Departments****C1: Faculty details of Department and Allied Departments****Table No.C1:** Faculty details in the Department for the year 2024-25

S.No.	Name of the Faculty	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Current in years in Experience	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if	(Regular/ Association of Nature)	If contractual mention Full time or	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is " No")
1	Dr. Manoj P B	Ph.D.	VTU, Belagavi	Wireless Sensor Networks	27-08-2007	23	Assistant Professor	Professor & HOD	07-09-2021	Regular	Full time	Y	No
2	Dr. Amuthan N	Ph.D.	Anna University, Chennai	Renewable Energy	01-01-2021	17	Professor	Professor	01-01-2021	Regular	Full time	Y	No
3	Dr. Bhanuprakash K N	Ph.D.	VTU, Belagavi	Power Systems	28-07-2017	44	Professor	Professor	28-07-2017	Adjunct	Part time	Y	31-07-2025
4	Dr. Selvamathi R	Ph.D.	VIT, Vellore	Power Electronics	01-01-2010	20	Assistant Professor	Associate Professor	18-10-2021	Regular	Full time	Y	No
5	Dr. Kothai Andal C	Ph.D.	VTU, Belagavi	Renewable Energy System	25-07-2018	20	Assistant Professor	Associate Professor	31-03-2023	Regular	Full time	Y	No

6	Mrs. Shilpa Acharya	M. Tech	VTU, Belagavi	Power Electronics	05-07-2017	11	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	No
7	Mrs. Shruthi M	M. Tech	VTU, Belagavi	Power Electronics	25-07-2011	11	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	No
8	Mr. Anantha Kumar M	M. Tech	Anna University	Power Electronics	14-02-2023	07	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	10-07-2025
9	Mrs. Gayathri Devi G	M.E	Anna University	Power Electronics & Drives	15-02-2023	08	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	No
10	Dr. Bharathy Priya D	Ph.D.	Anna University	Renewable Energy System	17-09-2024	02	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	No
11	Mrs.Sivaranjani R	M.E	Anna University	Power Electronics and Drives	30-09-2024	01	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	No

Table No.C2: Faculty details in the Department for the year 2023-24

S.No.	Name of the Faculty	Highest degree	University	Area of Specialization	Date of Joining in this Institution	current in years in Experience	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate (Regular/ Association of Nature Contract/ Ad hoc)	If contractual mention Full time or (Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is " No")
1	Dr. Manoj P B	Ph.D.	VTU, Belagavi	Wireless Sensor Networks	27-08-2007	22	Assistant Professor	Professor & HOD	07-09-2021	Regular	Full time	Y No
2	Dr. Amuthan N	Ph.D.	Anna University , Chennai	Renewabl e Energy	01-01-2021	16	Professor	Professor	01-01-2021	Regular	Full time	Y No
3	Dr. Bhanuprakash K N	Ph.D.	VTU, Belagavi	Power Systems	28-07-2017	43	Professor	Professor	28-07-2017	Adjunct	Part time	Y 31-07-2025
4	Dr. Selvamathi R	Ph.D.	VIT, Vellore	Power Electronics	01-01-2010	19	Assistant Professor	Associate Professor	18-10-2021	Regular	Full time	Y No
5	Dr. Kothai Andal C	Ph.D.	VTU, Belagavi	Renewabl e Energy System	25-07-2018	19	Assistant Professor	Associate Professor	31-03-2023	Regular	Full time	Y No

6	Mr. Shivalinga Swamy G D	M.Tech	VTU, Belagavi	Power Electronics	30-07-2012	12	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	15-05-2024
7	Mrs. Shilpa Acharya	M.Tech	VTU, Belagavi	Power Electronics	05-07-2017	10	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	No
8	Mrs. Shilpa R M	M.Tech	VTU, Belagavi	Power Electronics	14-07-2017	09	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	15-05-2024
9	Mrs. Shruthi M	M.Tech	VTU, Belagavi	Power Electronics	25-07-2011	10	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	No
10	Mr. Anantha Kumar M	M.Tech	Anna University, Chennai	Power Electronics	14-02-2023	06	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	10-07-2025
11	Mrs. Gayathri Devi G	M.Tech	Anna University, Chennai	Power Electronics & Drives	15-02-2023	07	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	No

Table No.C3: Faculty details in the Department for the 2022-23

S.No.	Name of the Faculty	Highest degree	University	Area of Specialization	Date of Joining in this Institution	current in years in Experience	Designation at Time Joining in this Institution	Present Designation	The date on which Designated	(Regular/ Association of Nature	If contractual mention Full	Currently Associated	Date of Leaving if any (In case Currently
1	Dr. Manoj P B	Ph.D.	VTU, Belagavi	Wireless Sensor Networks	27-08-2007	21	Assistant Professor	Professor & HOD	07.09.2021	Regular	Full time	Y	No
2	Dr. K N Bhanuprakash	Ph.D	VTU, Belagavi	Power Systems	28-07-2017	42	Professor	Professor	28-07-2017	Regular	Full time	Y	31-07-2025
3	Dr. Amuthan N	Ph.D.	Anna University, Chennai	Renewable Energy	01-01-2021	15	Professor	Professor	01-01-2021	Regular	Full time	Y	No
4	Dr. R. Selvamathi	Ph.D	VIT, Vellore	Power Electronics	01-01-2010	18	Assistant Professor	Associate Professor	18-10-2021	Regular	Full time	Y	No
5	Mrs. Kothaiandal C	Ph.D	VTU, Belagavi	Renewable Energy System	25-07-2018	18	Assistant Professor	Associate Professor	31-03-2023	Regular	Full time	Y	No
6	Mr. Shivalinga Swamy G D	M.Tech	VTU, Belagavi	Power Electronics	30-07-2012	11	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	15-05-2024
7	Mr. Kiran M K	M.Tech	JNTU, Anantapur	Power Systems	18-07-2013	10	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	04-08-2023
8	Mrs. Monika N	M. Tech	VTU, Belagavi	Power Systems	01-10-2015	08	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	04-08-2023
9	Ms. Shruthi G	M. Tech	VTU, Belagavi	Power Systems	01-02-2016	07	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	04-08-2023

10	Mr. Nagaraj S Katti	M. Tech	VTU, Belagavi	Power Systems	30-06- 2016	07	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	04-08- 2023
11	Mrs. Shruthi M	M. Tech	VTU, Belagavi	Power Electroni cs	25-07- 2011	09	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	No
12	Mrs.Shilpa Acharya	M. Tech	VTU, Belagavi	Power Electroni cs	05-07- 2017	09	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	No
13	Mrs. Shilpa R M	M. Tech	VTU, Belagavi	Power Electroni cs	14-07- 2017	08	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	15-05- 2024
14	Ms. Viplavi L V	M. Tech	VTU, Belagavi	Power Systems	09-09- 2019	04	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	15-05- 2023
15	Ms. Sahana B	M. Tech	VTU, Belagavi	Power Systems	19-10- 2021	02	Assistant Professor	Assistant Professor	--	Regular	Full time	Y	15-05- 2023

- $PG_1 = 1^{st}$ PG program.
- $PG_m = m^{th}$ PG program
 - **A** = No. of Students in PG 1st year
 - **B** = No. of Students in PG 2nd year
- ❖ Student 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)).

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

Year	CAY (2024-25)	CAYm1(2023-24)	CAYm2(2022-23)
UG ₁ . B // 2 nd year students of UG ₁ program	60	60	60
UG ₁ . C // 3 rd year students of UG ₁ program	60	60	60
UG ₁ . D // 4 th year students of UG ₁ program	60	60	60
UG ₁ // Total no.of students(2 nd , 3 rd , 4 th) in UG ₁ program	180	180	180
...			
UG _n . B // 2 nd year students of UG _n program			
UG _n . C // 3 rd year students of UG _n program			
UG _n . D // 4 th year students of UG _n program			
UG _n // Total no.of students(2 nd , 3 rd , 4 th) in UG _n program	UG _n .B+UG _n .C+UG _n .D	UG _n .B+UG _n .C+UG _n .D	UG _n .B+UG _n .C+UG _n .D
PG ₁ . A // 1 st year students of PG ₁ program			
PG ₁ . B // 2 nd year students of PG ₁ program			
PG ₁ // Total no.of students(1 st , 2 nd) in PG ₁ program	0	0	0
.....			
PG _m . A // 1 st year students of PG _m program			
PG _m . B // 2 nd year students of PG _m program			
PG _m // Total no.of students(1 st , 2 nd) in PG _m program	0	0	0
DS=Total no. of students in all UG and PG programs in the Department	180	180	180
AS=Total no. of students of all UG and PG programs in allied departments			
S=Total no. of students in the Department (DS) and allied departments (AS)	S1=180	S2=180	S3=180
DF=Total no. of faculty members in the Department			
AF= Total no. of faculty members in the allied Departments			
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1=11	F2=11	F3=15
FF=The faculty members in F who have a 100% teaching load in the first-year courses	FF1=3	FF2=3	FF3=3
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 22.5	SFR2=22.5	SFR3=15
Average SFR for 3 years	Average SFR=(SFR1+SFR2+SFR3)/3=20		

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	FQI= $2.5 * [(10X + 4Y)/RF]$
CAY (2024-25)	6	5	9	22.22
CAYm1 (2023-24)	5	6	9	20.55
CAYm2 (2022-23)	5	10	9	25

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 Faculty(RF1)	Available Faculty(AF1)	Required Faculty(RF2)	Available Faculty(AF2)	Required Faculty(RF3)	Available Faculty(AF3)
CAY (2024-25)	2.5	03	5	02	15	06
CAYm1 (2023-24)	2.5	03	5	02	15	06
CAYm2 (2022-23)	1.666	03	3.33	02	10	10
Average Numbers	RF1= 2.222	AF1=9/3=3	RF2= 4.443	AF2= 6/3=2	RF3= 13.33	AF3=22/3=7.33

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.

S.N.	Name of the Person	Designation & Organization	Name of the Course	No. of hours handled
CAYm1				
1	Dr. Bhanuprakash K	Professor	Introduction to Electrical Engineering.	50
..				
Total no. of hours:				50
CAYm2				

1	--	--	--	--
..				
Total no. of hours:				
CAYm3				
1	--	--	--	--
..				
Total no. of hours:				

C6: Academic Research

Table No. C6.1: Faculty publication details.

S.N.	Item	CAYm1	CAYm2	CAYm3
1	No. of peer reviewed journal papers published	7	8	7
2	No. of peer reviewed conference papers published	4	2	1
3	No. of books/book chapters published	8	3	0

C7: Sponsored Research Project

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

S.N.	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)
CAYm1							
1	Dr.Shashi shankar.A	Dr.N. Amuthan	Civil	innovative Post Harvest Sustainable Solutions for Extended Shelf Life of Freshly Harvested Tomato	AICTE Innovation Cell	6 Months	1,00,000/-
..							
Amount received (Rs.)							
CAYm2							
1	--	--	--	--	--	--	--
...							
Amount received (Rs.)							
CAYm3							
1	--	--	--	--	--	--	--
..							
Amount received (Rs.)							

Total Amount (Lacs) Received for the Past 3 Years	
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C8: Consultancy Work

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

S.N.	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)
CAYm1							
1	--	--	--	--	--	--	--

..							
Amount received (Rs.)							
CAYm2							
1	--	--	--	--	--	--	--
...							
Amount received (Rs.)							
CAYm3							
1	--	--	--	--	--	--	--
..							
Amount received (Rs.)							
Total amount (Lacs) received for the past 3 years							

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.

S.N.	Faculty name	Project title/ Support for Activity	Duration	Amount (Lacs)	Amount Utilized (Lacs)	Outcomes of the project
CAYm1						
1	--	--	--	--	--	--
..						
Amount received (Rs.)						
CAYm2						
1	--	--	--	--	--	--
..						
Amount received (Rs.)						
CAYm3						
1	--	--	--	--	--	--
..						
Amount received (Rs.)						
Total amount (Lacs) received for the past 3 years						

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.

S.N.	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major 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 Machines Lab (Electric Motors Lab & Transformers, Generators Lab)-1800 sq.ft.	15	a) Single Phase Transformer b) D.C. Compound Motor coupled to D.C Generator c) D.C Shunt Motor Brake drum arrangement d) D.C Shunt Motor Coupled to D.C Shunt Generator. e) D.C Series Motor Coupled to D.C Series Generator. f) D.C Shunt Motor Coupled to D.C Synchronous Alternator. g) Ward Leonard Method Speed Control of D.C motor. h) 3 Phase Induction motor V/F method. i) D.C Power Supply Drive. 3 Phase	6 Hours	Mr.Nagaraj M	Lab Instructor	BE
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			Variable Dimmerstat.				
2.	CAD Lab (Power System Lab, Digital Signal Processing Lab, Microcontrolle r Lab)-900 sq ft.	15	a) UPS -2 Qty Digital -HP max b) Mi Power Software. c) Computer systems	6 Hours	Mr.Nagaraj M	Lab Instructor	BE
3.	Power Electronics Lab (Analog Electronics, Linear Integrated Circuits Lab, Digital Electronics Lab)-900 sq ft	15	a) SCR, MOSFET, IGBT kits b) UJT/Digital Firing kits. c) Half Controlled Bridge Rectifier kit d) Fully Controlled Bridge Rectifier kit. e) Single phase half and full firing circuit f) Single Phase Controlled Full wave rectifier & Isolation Transformer . g) Single Phase PWM Inverter MOSFET & IGBT- based. h) Stepper Motor and Controller i) Universal Motor. j) DC Motor k) Single	6 hours	Mr.Rajagop al	Instructor	ITI

			Phase Triggering Unit. l) Digital Firing Circuit m) Dual channel CRO n) Function generator o) Dual Power supply p) Digital Trainer kit Digital IC Tester				
4.	Measurements /Control System Lab (Electric Circuit Analysis Lab, Electrical Hardware Lab, Basic Electrical Lab.)-900 sq. ft.	15	a) Dual Channel Oscilloscope/Storage Oscilloscope 20MHZ. b) Lead, Lag, PI controller Kits. c) Synchro Transmitter receiver. d) III order system. e) II order system study unit. f) Servomotors (AC/DC). g) Level Control Measurement kit. h) Temperature Controller kit. i) Induction Motor Training kit. j) Verification of KVL and KCL for D C Circuits. k) Maximum	6 hours	Mr. Rajagopal	Instructor	ITI

			power transfer theorem kit l) Thevenin's theorem kit m) Single phase transformer.				
5.	Relay & HVE Lab	15	a) Relays- Over Voltage Relay b) Over Current Relay. c) Negative Sequence relay. d) Under Voltage Relay e) Oil Breaker Tester f) HV Transformer Control panel. g) Field mapping of the electrolytic tank. h) HVDC/ HVAC Test panel. i) Advanced Motor Protection relay	6 Hours	Nagaraj M	Lab Instructor	BE

D2: ` Safety Measures in Laboratories**Table No. D2.1:** List of various safety measures in laboratories.

S.N.	Name of the Laboratory	Safety measures
1.	Electrical Machines Lab	Fire extinguishers, insulated mat flooring, emergency shutdown switch, proper earthing, warning signboards, first aid kit, protective gear (gloves, shoes).
2.	Power System/ECAD Lab	Circuit breakers, surge protectors, properly rated cables, a fire extinguisher, software safety protocols, and anti-static flooring.
3.	Power Electronics and LIC Lab	Fume extractor for soldering, isolators, insulated tools, fire extinguishers, first aid kit, proper ventilation, and an emergency power-off system.
4.	Measurements/ Control System Lab	ESD protection, grounding mats, fire extinguisher, a lab safety manual, circuit breaker for each workbench, first aid kit and emergency exit plan.
5.	Relay and High Voltage Engineering Lab	Safety enclosures for high-voltage experiments, HV warning boards, insulated mats, proper earthing, fire extinguisher, first aid kit, emergency trip button.
6.	Basic Electrical Engineering Lab	Colour-coded wiring, circuit breakers, insulating mats, first-aid kit, shock-proof sockets, supervised operation, and safety posters displayed.

D3: Project Laboratory/Research Laboratory**Table No. D3.1:** List of project laboratory/research laboratory /Centre of Excellence.

S.N.	Name of the Laboratory
1.	Research Laboratory
2.	Centre of Excellence in Hybrid Power Generation System

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))/RF4
2024-25	1230	61.5	37	78	$((37 \times 0.8) + (78 \times 0.2)) / 61.5 \times 100 = 73.49\%$
2023-23	1140	57	31	69	$((31 \times 0.8) + (69 \times 0.2)) / 57 \times 100 = 67.71\%$
2022-23	1140	57	37	60	$((37 \times 0.8) + (60 \times 0.2)) / 57 \times 100 = 72.98\%$

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 CFY 2024-25	Actual expenses in CFY 2024-25	Budgeted in CFYm1 2023-24	Actual Expenses in CFYm1 2023-24	Budgeted in CFYm2 2022-23	Actual Expenses in CFYm2 2022-23	Budgeted in CFYm3 2021-22	Actual Expenses in CFYm3 2021-22
Infrastructure Built-Up	10,00,00,000	7,43,66,567	3,80,00,000	12,45,01,443	3,30,00,000	4,90,48,548	5,00,00,000	7,22,54,687
Library	50,00,000	20,94,553	50,00,000	40,39,755	50,00,000	24,70,846	35,00,000	13,82,683
Laboratory equipment	1,00,00,000	2,19,865	1,00,00,000	2,39,186	1,00,00,000	13,13,752	2,20,00,000	00
Teaching and non-teaching staff salary	18,00,00,000	17,31,62,142	15,00,00,000	14,32,31,956	15,00,00,000	11,53,06,862	18,00,00,000	10,24,46,647
R&D	5,00,000		5,00,000		5,00,000		40,00,000	
Training, Placement and Industry linkage	50,00,000	15,53,039	1,11,00,000	11,67,604	50,00,000	13,13,697	11,00,000	00
Others*, pl. specify (FDP)	10,00,000	1,34,000	10,00,000	2,16,725	10,00,000		10,00,000	4,83,918
Total amount	30,15,00,000	25,15,30,166	21,56,00,000	27,33,96,669	20,45,00,000	16,94,53,705	26,16,00,000	17,65,67,935

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 CFY 2024-25	Actual expenses in CFY 2024-25	Budgeted in CFYm1 2023-24	Actual Expenses in CFYm1 2023-24	Budgeted in CFYm2 2022-23	Actual Expense s in CFYm2 2022-23	Budgeted in CFYm3 2021-22	Actual Expenses in CFYm3 2021-22
Laboratory equipment	₹50,000	₹10,000		₹0	₹58,650		₹370,150.00	₹0
Software	-	-	₹500,000					
DGs/maintenance and spares	₹10,000	₹9,194	₹100,000	₹107,842		₹15,673	-	₹39,442
Support for faculty development	₹60,000	₹53,995	₹25,000	₹28,337		₹138,561	-	₹17,625
R & D	-	-	₹500,000	₹0	₹570,150		₹200,000.00	
Industrial Training, Industry expert, Internship	₹3,00,000	₹2,73,919	₹275,000	₹185,269		₹69,588	-	₹5,738
Miscellaneous expenses *	₹6,50,000	₹6,00,789	₹365,000	₹293,895	50000	₹153,426	-	₹227,684
Total amount	₹10,70,000	₹9,47,897	₹1,765,000	₹6,15,344	₹6,78,800	₹3,77,248	₹5,70,150.00	₹2,90,489