PART A : Institutional Information

A 1. Name and address of the institution:

SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN (Autonomous)

Year of Establishment: 2001 Location of the Institution: Bhimavaram

A 2. Type of the Institution: (Tick the applicable choice)

City : Bhimavaram State : Andhra Pradesh
Pincode : 534202 Website: www.svecw.edu.in
Email: info@svecw.edu.in, principal@svecw.edu.in
Phone No (with STD Code): 08816-250864

A 3. Name and Address of the Affiliating University (if any):

Name of the university: Jawaharlal Nehru Technological University Kakinada (JNTUK)
City : Kakinada State: Andhra Pradesh
Pin Code : 533003

A 4. Type of the Institution : - (Tick the applicable choice)

- Institution of National Importance ☐
- University ☐
- Deemed University ☐
- Autonomous ☑
- Non-Autonomous (Affiliated) ☐
- Any Other (Please Specify*) ☐

***Provide Details**: _____

A 5. Ownership status: - (Tick the applicable choice)

- Central Government ☐
- State Government ☐
- Grant-in-Aid ☐
- Self-financing Trust ☑
- Any Other (Please Specify*) ☐

***Provide Details:** _____

A 6. Details of all the programs being offered by the institution: -

- No. of UG Programs : 09
- No. of UG Programs : 05

Table No. A 6.1 : List of all the programs offered by the Institution.

S. No.	Level of Program (UG/PG)	Name of the Program	Year of Start	Year of Close	Name of the Department
1	UG	Computer Science & Engineering	2001-02	-	Computer Science & Engineering
2	UG	Electronics & Communication Engineering	2001-02	-	Electronics & Communication Engineering
3	UG	Information Technology	2001-02	-	Information Technology
4	UG	Electrical & Electronics Engineering	2002-03	-	Electrical & Electronics Engineering
5	UG	Mechanical Engineering	2009-10	-	Mechanical Engineering
6	UG	Civil Engineering	2009-10	-	Civil Engineering
7	UG	Computer Science & Engineering[Artificial Intelligence & Data Science]	2020-21	-	Artificial Intelligence
8	UG	Computer Science & Engineering[Artificial Intelligence & Machine Learning]	2021-22	-	Artificial Intelligence
9	UG	Computer Science & Engineering[Cyber Security]	2022-23	-	Computer Science & Engineering
10	PG	Power Electronics	2008-09	-	Electrical & Electronics Engineering
11	PG	VLSI Design	2008-09	-	Electronics & Communication Engineering
12	PG	Software Engineering	2009-10	-	Computer Science & Engineering
13	PG	Computer Science & Engineering	2011-12	-	Computer Science & Engineering
14	PG	Master of Business Administration	2008-09	-	Master of Business Administration

A 7. Programs to be considered for Accreditation vide this Application:

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

S. No.	Name of the Department	Name of the Program
1	Computer Science & Engineering	UG : Computer Science & Engineering
2	Electronics & Communication Engineering	UG : Electronics & Communication Engineering
3	Electrical & Electronics Engineering	UG : Electrical & Electronics Engineering
4	Information Technology	UG : Information Technology

Note:

- Keep a list of programs applying for NBA accreditation through this application.

Table No. A7.2: Allied Department(s) to the Department of the programs considered for accreditation as above.

S. No.	Name of the Department (in table no. A7.1)	Name of allied Department / Cluster (for table no.A7.1)
1	Computer Science & Engineering	Nil
2	Electronics & Communication Engineering	Nil
3	Electrical & Electronics Engineering	Nil
4	Information Technology	Nil

- Keep a list of all allied departments/cluster programs with respect to Table No. A7.1.
- See the Allied Departments/Cluster programs information in Annexure-III.

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. No	Program Name	Year of start	Sanctioned Intake	Increase/ decrease in intake, if any	Year of increase/ decrease	AICTE Approval Details	Accreditation Status*	No. of times program accredited
1	UG - Electrical & Electronics Engineering	2002	60 Yes	120	2012-13	F.No. South - Central / 1-692569201 / 2012/ EOA	Granted accreditation for 3 years (2022-2025 up to 30.06.2025)	4
				60	2021-22	F.No. South-Central/ 1-9319531949 /2021/EOA		

* Write applicable one:
- ❖ Granted accreditation for 2/3 years for the period (specify period)

B2: Detail of Head of the Department for the program under consideration:
A. Name of the HoD : Dr. S. M. Padmaja

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 (LYGm1) (2019-20)	CAYm6 (LYGm2) (2018-19)
N= Sanctioned intake of the program (as per AICTE /Competent authority)	60	60	60	60	120	120	120

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	51	58	59	108	115	105
N2= Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	5	13	10	8	15	14	9
N3= Separate division if any							
N4= Total no. of students admitted in the 1st year via all supernumerary quotas	6	6	4	6	8	8	-
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points	71	70	72	73	131	137	114

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)**	**CAYm1 (2023-24)**	**CAYm2 (2022-23)**
N= Sanctioned intake of the program in the 1st year (as per AICTE/Competent authority)	60	60	60
N1= Total no. of students admitted in the 1st year minus the no. of students, who migrated to other	60	51	58

programs/ institutions plus no. of students, who migrated to this program			
N4= Total no. of students admitted in the 1st year via all supernumerary quotas	6	6	4
Enrolment Ratio (ER)= (N1+N4)/N	ER_1=110	ER_2=95	ER_3=103
Average ER= (ER_1+ ER_2+ ER_3)/3	102		

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 (2020-21)**	**LYGm1 (2019-20)**	**LYGm2 (2018-19)**
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).	131	137	114
B=No. of students who graduated from the program in the stipulated course duration	118	132	111
Success Rate (SR)= (B/A) * 100	90.07	96.35	97.36
Average SR of three batches ((SR_1+ SR_2+ SR_3)/3)	94.59		

*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 (2021-22)**
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)	8.176	8.045	7.854
Y= Total no. of successful students	52	53	57
Z = Total no. of students appeared in the examination	57	62	64
API = X* (Y/Z)	AP1=7.458	AP2=6.877	AP3=6.994
Average API = (AP1 + AP2 + AP3)/3	7.109		

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 (2021-22)
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 2nd year/10)	8.279	8.209	8.082
Y= Total no. of successful students	59	64	118
Z = Total no. of students appeared in the examination	72	72	127
API = X* (Y/Z)	AP1=6.784	AP2=7.296	AP3=7.509
Average API = (AP1 + AP2 + AP3)/3	7.196		

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 (2021-22)
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)	8.343	8.851	8.441
Y= Total no. of successful students	64	118	134
Z = Total no. of students appeared in the examination	70	124	131
API = X* (Y/Z)	AP1=7.627	AP2=8.422	AP3=8.252
Average API = (AP1 + AP2 + AP3)/3	8.1		

B9: Placement, Higher Studies, and Entrepreneurship

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

Academic Performance	LYG (2020-21)	LYGm1 (2019-20)	LYGm2 (2018-19)
FS*=Total no. of final year students	124	135	113
X= No. of students placed	80	117	95
Y= No. of students admitted to higher studies	03	10	10
Z= No. of students taking up entrepreneurship	0	0	0
X + Y + Z =	83	127	105
Placement Index (P) = (((X + Y + Z)/FS) * 100)	P_1=66.93	P_2=94.07	P_3=92.92
Average placement index = (P_1 + P_2 + P_3)/3	84.64		

*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)

C1: Faculty details of Department and Allied Departments

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

ACADEMIC YEAR 2022-23

S.N.	Name of the Faculty	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)	If contractual mention Full time or Part time	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
01	Dr. S. M. Padmaja	Ph. D	JNTUH	Power electronics in Power Systems	13-06-2003	19.11	Asst. Prof	Professor	25-04-2016	Regular	Full time	Y	
02	Dr B. Suresh Babu	Ph. D	Anna University	Power System	27-06-2018	4.10	Professor	Professor		Regular	Full time	N	04-05-2023
03	Dr. J. Rohith Balaji	Ph. D	JNTUK	Power Electronics	07-10-2015	7.7	Asst. Prof	Assoc. Prof	10-08-2017	Regular	Full time	Y	
04	Dr. G. Durga Prasad	Ph. D	Karunya University	Power Electronics	01-05-2014	8.90	Asst. Prof	Assoc. Prof	11-12-2017	Regular	Full time	N	06-05-2023
05	Dr. SSSR Sarathbabu Duvvuri	Ph. D	IITH	Electrical Machine Analysis	10-10-2017	5.7	Asst. Prof	Assoc. Prof	28-04-2020	Regular	Full time	Y	
06	Dr. S. Dileep Kumar Varma	Ph. D	JNTUK	Power System	11-05-2005	18	Asst. Prof	Assoc. Prof	8-06-2009	Regular	Full time	Y	
07	Dr. K. Kalyan Sagar	Ph. D	AMET University	Power System	01-05-2017	6	Asst. Prof	Asst. Prof		Regular	Full time	Y	
08	Mrs. G. Bharathi	M.Tech	JNTUK	High Voltage Engineering	03-05-2006	17	Asst. Prof	Asst. Prof		Regular	Full time	Y	
09	Mr. K. Omkar	M.Tech	NIT JSR	Power Systems	10-07-2012	10.10	Asst. Prof	Asst. Prof		Regular	Full time	Y	
10	Mr. N. Praveen Kumar	M.Tech	Satyabhama University	Power Electronics	13-09-2014	8.7	Asst. Prof	Asst. Prof		Regular	Full time	N	06-05-2023

11	Mr. M. V. Srikanth	Ph.D	JNTUK	Control Systems	31-05-2010	13	Asst. Prof	Asst. Prof		Regular	Full time	Y	
12	Mr. K. P. Swaroop	M.Tech	JNTUH	Power system control and automation	15-06-2010	12.11	Asst. Prof	Asst. Prof		Regular	Full time	Y	
13	Mrs. Y. T. R. Palleswari	M.Tech	JNTUK	Power Electronics	23-04-2013	10.1	Asst. Prof	Asst. Prof		Regular	Full time	Y	
14	Mr. S. Veera Babu	M.Tech	JNTUK	power Electronics	18-07-2013	9.10	Asst. Prof	Asst. Prof		Regular	Full time	Y	
15	Mr. D. Lakshman Kumar	M.Tech	JNTUH	power Electronics	20-05-2013	10	Asst. Prof	Asst. Prof		Regular	Full time	Y	
16	Mr. J. Venkatesh	M.E	A. U	Power Systems and Automation	09-09-2014	8.8	Asst. Prof	Asst. Prof		Regular	Full time	Y	16-10-2023
17	Mr. B. Ramu	Ph.D	VELS University	power Electronics	27-04-2015	8.1	Asst. Prof	Asst. Prof		Regular	Full time	Y	
18	Mr. B. Mahendra Chand	M.Tech	JNTUK	power Electronics	01-05-2014	9	Asst. Prof	Asst. Prof		Regular	Full time	Y	
19	Mr. N Venkata Ramana	M.Tech	JNTUK	power Electronics	12-06-2015	7.10	Asst. Prof	Asst. Prof		Regular	Full time	N	04-05-2023
20	Mr. M. Siva Rama Ganesh	M.Tech	JNTUK	Power Electronics	15-06-2015	7.11	Asst. Prof	Asst. Prof		Regular	Full time	Y	
21	Mr. R. Pradeep Sudha	M.Tech	JNTUK	Power systems and control and automation	11-06-2015	7.11	Asst .Prof	Asst. Prof		Regular	Full time	Y	
22	Mr. A. Siva	M.Tech	JNTUGV	Advanced Power system	21-04-2017	6.1	Asst. Prof	Asst. Prof		Regular	Full time	Y	

NBA DATA CAPTURING POINTS – UG :: ELECTRICAL & ELECTRONICS ENGINEERING

ACADEMIC YEAR 2023-24

S.N.	Name of the Faculty	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)	If contractual mention Full time or Part time	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
01	Dr. S. M. Padmaja	Ph. D	JNTUH	Power electronics in Power Systems	13-06-2003	20.11	Asst. Prof	Professor	25-04-2016	Regular	Full time	Y	
02	Dr. S. Dileep Kumar Varma	Ph. D	JNTUK	Power System	11-05-2005	19	Asst. Prof	Professor	01-04-2023	Regular	Full time	Y	
03	Dr. SSSR Sarathbabu Duvvuri	Ph. D	IITH	Electrical Machine Analysis	10-10-2017	6.7	Asst. Prof	Professor	01-04-2023	Regular	Full time	Y	
04	Dr. J. Rohith Balaji	Ph. D	JNTUK	Power Electronics	07-10-2015	8.7	Asst. Prof	Assoc. Prof	10-08-2017	Regular	Full time	Y	
05	Dr. K. Kalyan Sagar	Ph. D	AMET University	Power System	01-05-2017	7	Asst. Prof	Assoc. Prof	01-04-2023	Regular	Full time	Y	
06	Mrs. G. Bharathi	M. Tech	JNTUK	High Voltage Engineering	03-05-2006	18	Asst. Prof	Asst. Prof		Regular	Full time	Y	
07	Mr. K. Omkar	M. Tech	NIT JSR	Power Systems	10-07-2012	11.1	Asst. Prof	Asst. Prof		Regular	Full time	Y	
08	Dr. M. V. Srikanth	Ph. D	JNTUK	Control Systems	31-05-2010	14	Asst. Prof	Asst. Prof		Regular	Full time	Y	
09	Mr. K. P. Swaroop	M. Tech	JNTUH	Power system control and automation	15-06-2010	13.11	Asst. Prof	Asst. Prof		Regular	Full time	Y	
10	Dr. Y. T. R. Palleswari	M. Tech	JNTUK	Power Electronics	23-04-2013	11.11	Asst. Prof	Asst. Prof		Regular	Full time	Y	
11	Mr. S. Veera Babu	M. Tech	JNTUK	power Electronics	18-07-2013	10.1	Asst. Prof	Asst. Prof		Regular	Full time	Y	
12	Mr. D. Lakshman Kumar	M. Tech	JNTUH	power Electronics	20-05-2013	11	Asst. Prof	Asst. Prof		Regular	Full time	Y	
13	Dr. B. Ramu	Ph. D	VELS University	power Electronics	27-04-2015	9.1	Asst. Prof	Asst. Prof		Regular	Full time	Y	
14	Mr. B. Mahendra Chand	M. Tech	JNTUK	power Electronics	01-05-2014	10	Asst. Prof	Asst. Prof		Regular	Full time	Y	
15	Mr. M. Siva Rama Ganesh	M. Tech	JNTUK	Power Electronics	15-06-2015	8.1	Asst. Prof	Asst. Prof		Regular	Full time	Y	
16	Mr. R. Pradeep Sudha	M. Tech	JNTUK	Power systems and control and automation	11-06-2015	8.11	Asst. Prof	Asst. Prof		Regular	Full time	Y	
17	Dr. A. Siva	M. Tech	JNTUGV	Advanced Power system	21-04-2017	7.1	Asst. Prof	Asst. Prof		Regular	Full time	Y	

NBA DATA CAPTURING POINTS – UG :: ELECTRICAL & ELECTRONICS ENGINEERING

ACADEMIC YEAR 2024-25

S.N.	Name of the Faculty	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)	If contractual mention Full time or Part time	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
01	Dr. S. M. Padmaja	Ph. D	JNTUH	Power electronics in Power Systems	13-06-2003	21.11	Asst. Prof	Professor	25-04-2016	Regular	Full time	Y	
02	Dr. S. Dileep Kumar Varma	Ph. D	JNTUK	Power System	11-05-2005	20	Asst. Prof	Professor	01-04-2023	Regular	Full time	Y	
03	Dr. SSSR Sarathbabu Duvvuri	Ph. D	IITH	Electrical Machine Analysis	10-10-2017	7.7	Asst. Prof	Professor	01-04-2023	Regular	Full time	Y	
04	Dr. J. Rohith Balaji	Ph. D	JNTUK	Power Electronics	07-10-2015	9.7	Asst. Prof	Assoc. Prof	10-08-2017	Regular	Full time	Y	
05	Dr. K. Kalyan Sagar	Ph. D	AMET University	Power System	01-05-2017	8	Asst. Prof	Assoc. Prof	01-04-2023	Regular	Full time	Y	
06	Mrs. G. Bharathi	M.Tech	JNTUK	High Voltage Engineering	03-05-2006	19	Asst. Prof	Asst. Prof		Regular	Full time	Y	
07	Mr. K. Omkar	M.Tech	NIT JSR	Power Systems	10-07-2012	12.1	Asst. Prof	Asst. Prof		Regular	Full time	Y	
08	Dr. M. V. Srikanth	Ph. D	JNTUK	Control Systems	31-05-2010	15	Asst. Prof	Asst. Prof		Regular	Full time	Y	
09	Mr. K. P. Swaroop	M.Tech	JNTUH	Power system control and automation	15-06-2010	14.11	Asst. Prof	Asst. Prof		Regular	Full time	Y	
10	Dr. Y. T. R. Palleswari	M.Tech	JNTUK	Power Electronics	23-04-2013	12.11	Asst. Prof	Asst. Prof		Regular	Full time	Y	
11	Mr. S. Veera Babu	M.Tech	JNTUK	power Electronics	18-07-2013	11.1	Asst. Prof	Asst. Prof		Regular	Full time	Y	
12	Mr. D. Lakshman Kumar	M.Tech	JNTUH	power Electronics	20-05-2013	12	Asst. Prof	Asst. Prof		Regular	Full time	Y	
13	Dr. B. Ramu	Ph. D	VELS University	power Electronics	27-04-2015	10.1	Asst. Prof	Asst. Prof		Regular	Full time	Y	
14	Mr. B. Mahendra Chand	M.Tech	JNTUK	power Electronics	01-05-2014	11	Asst. Prof	Asst. Prof		Regular	Full time	Y	
15	Mr. M. Siva Rama Ganesh	M.Tech	JNTUK	Power Electronics	15-06-2015	9.1	Asst. Prof	Asst. Prof		Regular	Full time	Y	
16	Mr. R. Pradeep Sudha	M.Tech	JNTUK	Power systems and control and automation	11-06-2015	9.11	Asst. Prof	Asst. Prof		Regular	Full time	Y	
17	Dr. A. Siva	M.Tech	JNTUGV	Advanced Power system	21-04-2017	8.1	Asst. Prof	Asst. Prof		Regular	Full time	Y	

C2: Student-Faculty Ratio (SFR)

Table No.C2.1: Student-faculty ratio

Year	CAY	CAYm1	CAYm2
UG_1. B	66	66	66
UG_1. C	66	66	132
UG_1. D	66	132	132
UG_1	198	264	330
PG_1. A	9	9	9
PG_1. B	9	9	18
PG_1	18	18	27
DS=Total no. of students in all UG and PG programs in the Department	216	282	357
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)	216	282	357
DF=Total no. of faculty members in the Department	…..	…..	…..
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	17	17	22
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)	13.5	17.625	17
Average SFR for 3 years	Average SFR=16.04		

C3: Faculty Qualification

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	FQI= 2.5 * [(10X +4Y)/RF]
CAY	9	8	11	28.18
CAYm1	6	11	14	29.64
CAYm2	6	16	18	32.22
Average Assessment				30.02

C4: Faculty Cadre Proportion

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	2	3	3	2	8	12
CAYm1	2	3	3	2	10	12
CAYm2	2	2	4	4	12	16
Average Numbers	RF1= 6	AF1 = 8	RF2 =10	AF2 = 8	RF3 = 30	AF3 = 40

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.No.	Name of the Person	Designation & Organization	Name of the Course	No. of hours
CAYm1 (2023-24)				
1	Mr. B. G. Kiran	Core Electrical Engineer	Electrical systems in Vehicular Applications III-I Sem	25
2	Mr. B. G. Kiran	Core Electrical Engineer	Electrical systems in Vehicular Applications III-I Sem	25
Total no. of hours:				**50**
CAYm2 (2022-23)				
1	Mr. M D V Tej	Software Engineer	Machine Learning III-II Sem	25
2	Ms. K. S. Priya	Software Engineer	Java Programming II-II Sem	25
Total no. of hours:				**50**
CAYm3 (2021-22)				
1	Mr. B. G. Kiran	Core Electrical Engineer	Power Electronics, WESS (III-I Sem.)	60
2	Ms. K. S. Priya	Software Engineer	Java Programming (III-II Sem.)	60
Total no. of hours:				**120**

C6: Academic Research

Table No. C6.1: Faculty publication details

S. No	Item	CAYm1	CAYm2	CAYm3
1	No. of peer reviewed journal papers published	15	3	7
2	No. of peer reviewed conference papers published	14	3	4
3	No. of books/book chapters published	1	0	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. G. Srinivasa Rao	Dr. S. M. Padmaja	EEE	CURIE Core Grant for Women PG Colleges	DST	3 years	1,76,040
						Amount received (Rs.)	1,76,040
CAY m2							
1	Dr. G. Srinivasa Rao	Dr. S. M. Padmaja	EEE	CURIE Core Grant for Women PG Colleges	DST	3 years	19,32,224
						Amount received (Rs.)	19,32,224
CAYm3							
1	Dr. S. M. Padmaja	-	EEE	Modernization of Power Systems Lab	AICTE	9 months	14,79,435
						Amount received (Rs.)	14,79,435
						Total amount (Lacs) received for the past 3 years	**35,87,699**

C8: Consultancy Work

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

S. No	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	Mrs. Y. T. R Palleswari	Mr. A. Siva	EEE	Harmonic Analysis & Energy Audit	NK Industries Burugupudi A.P	6 months	1.00
2	Dr. S. M. Padmaja	Dr. S. D. K. Varma	EEE	Design of Flexible Cell	SSV Battery Works, Gollalakoderu	6 months	0.46

				Connectors and Battery cables			
3	Dr. S S S S R Sarath Babu Duvvuri	Mr.K. Omkar	EEE	Power Quality Analysis of Industrial Drives	NK Industries Burugupudi A.P	6 months	2.0
						Amount received (Rs.)	**3.46**
CAYm2							
1.	Dr. S. D. K. Varma	Dr. S. M. Padmaja	EEE	Design of cable system	SSV Battery Works, Gollalakoderu	6 months	0.5
2.	Dr. J. Rohit Balaji	Mr. D. Lakshman Kumar	EEE	Design and Implementation of a High-Efficiency Cable System for Battery Pack Integration	SSV Battery Works, Gollalakoderu	6 months	1.5
						Amount received (Rs.)	**2.0**
CAYm3							
1.	Dr. B Suresh Babu	Mr. K V S Prasad Rao	EEE	Design of flexible cell connectors and battery cables	S S V battery works Gollakoderu,	6 months	0.50
2.	Dr. J. Rohit Balaji	Dr. K. Kalyan Sagar	EEE	Control of BLDC motor in Electrical Vehicles	JSK Instruments, Chennai	6 months	0.93
3.	Dr. S. M. Padmaja	Mr. S. D. K. Varma	EEE	PWM Control methods for DC DC converters	JSK Instruments, Chennai	6 months	2.0
						Amount received (Rs.)	**3.43**
Total Amount (Lacs) Received for the Past 3 Years							**8.89**

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	Dr. J. Rohith Balaji	3 Phase Rectifier Unit with over current protection	2 months	0.33	0.27	Prototype
2	Mr. A. Siva	PLC Automation Trainer Kit	8 Months	0.28	0.28	Prototype
3	Dr. J. Rohith Balaji	Smart Solar Aerator System	2 months	2.2	2.2	Working Model

		for Prawn/Fish Ponds				
4	Mr. M. S. R. Ganesh	Automatic Control & Weight Monitoring of A Vacuum Based Grain Collecting Machine	6 Months	0.10	0.09	Prototype
Amount received (Rs.)					**2.84**	
CAYm2						
1	Dr. J. Rohith Balaji	Hybrid EV Controller for IM & BLDC	1 month	0.23	0.21	Prototype
2	Mrs. Y. T. R. Palleswari	Hybrid Charging System for Electric Vehicle	3 Months	0.20	0.19	Prototype
Amount received (Rs.)					**0.4**	
CAYm3						
1	Dr. J. Rohith Balaji	Cyclic Loading Instrument	9 months	0.26	0.24	Prototype
2	Dr. J. Rohith Balaji	Automatic Articulating Paper Dispenser	1 month	0.11	0.11	Prototype
3	Dr. S. M. Padmaja	Voice Activated Autonomous Chess board for Disable	10 months	0.34	0.30	Prototype
4	Dr. J. Rohith Balaji	Automatic Guided Robot for Floor Chess	9 months	0.41	0.41	Prototype

PART-D: Laboratory Infrastructure in the Department

(Data to be filled in for the Department).

D1: Adequate and Well-Equipped Laboratories, and Technical Manpower

S. No	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	DC Machines Lab	3	1. DC shunt motor coupled shunt generator 2. DC compound motor coupled DC compound generator. 3. DC compound motor coupled DC series generator 4. DC series motor with series generator 5. DC compound motor 6. DC series motor. 7. DC shunt motor. 8. DC compound motor. 9. DC shunt Motor-Shunt Generator.	12 Hrs	R. Sudheer Kumar	Lab Assistant	Diploma
2	Electrical Circuits lab & Measurements Lab	3	1. Oscilloscope 20 MHz 2. Regulated power supply 3. Digital multi-meters, Voltmeters, Ammeters, Rheostats, 4. D. R. B, D.I.B, D.C.B. 5. Crompton potentiometer 6. Bridges: Kelvin's double Bridge, Schering Bridge, Anderson Bridge 7. Auto Transformers 8. DC Regulated Power Supply . 9. Capacitive load, Resistive load, Inductive load 10. Phase shifting Transformer 11. LVDT & Capacitance pickup	12 Hrs	D.Sai Krishna	Lab Assistant	Diploma
3	ELECTRICAL MACHINES- II LAB	3	1. 3-phase Induction Motor squirrel cage type, with brake drum arrangement, star delta starters. 2. 3-phase Induction Motor slip ring type, with brake drum arrangement, Rotor resistance starter.	18 Hrs	M V Ganapathi Raju	Lab Technician	I.T.I.

			3. DC Shunt Motor coupled to Alternator. 4. Synchronous Motor. 5. 1-Φ Induction Motor. 6. Pole-changing Inductor Motor. 7. Salient pole Alternator panel board with indicating lamp Transformer with indicating lamps. 8. Scott connected Transformer 9. 1-Φ and 3- Φ Auto transformer.				
4	CONTROL SYSTEMS LAB & DYNAMICS & CONTROL LAB	3	1. Time response of second order system Kit 2. Effect of feedback on D.C servo motor kit 3. Effect of P,PID,PD on second order system kit . 4. Lag & lead compensation module 5. Temperature controller using PID (analog type) 6. Characteristics of A.C servo motor module 7. Magnetic amplifier kit 8. Synchros transmitter and receiver pair 9. PLC trainer kit 10. Stabilizer.	12 Hrs	D .Sai Krishna	Lab Assistant	Diploma
5	POWER ELECTRONICS AND DRIVES LAB	3	1. 1-Φ A.C voltage controller 2. L-load, C-Load, Isolation transformer 3. Study of SCR firing circuit trainer 4. Resistive Load 5. Study characteristics of SCR, MOSFET, IGBT trainer kit. 6. Forced communication circuit trainer kit. 7. 1-Φ series inverter power circuit trainer kit 8. 1-Φ parallel inverter power circuit trainer kit 9. 1-Φ Half controlled power circuit & Firing circuit 10. 1-Φ Full controlled power circuit & Firing circuit 11. R C Firing circuit 12. 1-Φ Dual converter 13. 1-Φ Cyclo Converter 14. 3-Φ Fully Bridge converter 15. 3-Φ Half Bridge converter.	12 Hrs	T. Sunil Kumar	Lab Helper	I.T.I
6	Microprocessors	3	1. 8086/8088 based, low cost, microprocessor	12 Hrs	G Srinivasa Rao	Lab Helper	I.T.I

	and Microcont rollers Lab		trainer with on board LCD (20x4) interface for optional P.C. key board and user manual: model ESA 86/88E along with ESA PSM2 power supply and NI-CD battery. 2. 8051 family of low cost micro controller trainer with on board LCD(20x4) interface for optional PC key board and user manual: model ESA 51E along with ESA PSM2 power supply and NI-CD battery. 8251/8253. study card interface with user manual model: IF SC 8251/8253.				
7	POWER SYSTEMS LAB	3	1. HP Pro 3330 MT Desktop PC Core i3 2nd Generation Processor H61 Chipset Dos, Mouse, keyboard 18.5 LED Monitor 2 GB, RAM, 500GB HDD. 2. Casio XJ V1 LED Projector. 3. Liberty 8"*6" Instalock Screen, 3ft Celling Mounting kit Power & VGA Cable 15 Mts 4. UPS: Model-ACCENTA S.L.No.A100497209 Capacity:10000VA, Input: 230VA Outout: 230VA, Battery:240V DC 5. Batteries:12V, 42AH 6. PSCAD Software 7. Mi-power Software	12 Hrs	N V Ram Mohan Rao	Lab Helper	I.T.I.

D2: `Safety Measures in Laboratories

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

S. No	Name of the Laboratory	Safety Measures
1	**Electrical Machines Labs**	1. Operate the circuits only under supervision of the faculty/instructor and as per instructions provided by lab manuals (or) instructors. 2. Familiarize to students to use of fire extinguishers, first aid kits, emergency exits, and circuit breakers. 3. Laboratory equipped with Fire extinguisher(Class C) and sand buckets in working order for fire protection. 4. Wear Shoes to protect from shock and Lab coat for the safety of person. 5. Mats are placed before each panel and ensure to conduct experiment by standing on it. 6. First Aid kit is provided in the laboratory. 7. Laboratory is having Earthing.

		8. Ensure proper display of safety instructions, emergency contacts, and hazard symbols. 9. Circuit Breakers are used to trip the circuit for any Mal functioning. 10. Never touch electrical equipment with wet hands or while standing on a wet surface. 11. Avoid loose clothing, ties, or jewelry that can get caught in equipment. Wear insulated footwear and remove metallic accessories. 12. Always be sure that electrical equipment is turned in the 'OFF' position before plugging it in to a socket. 13. Precaution Board is displayed from Electric Shock. 14. Make sure students and staff use insulated gloves, lab coats, and safety glasses during experiments. 15. Make sure all equipment is properly grounded to prevent electric shock. 16. Always turn off the power supply before connecting or disconnecting any components in a circuit. 17. Do not exceed voltage or current ratings of equipment and components. 18. Clearly label wires and terminals to avoid incorrect connections and short circuits. 19. Turn off all equipment and unplug devices after use.
2	(i). Control Systems lab (ii). Power Electronics Lab & (iii). Electrical Circuits Lab	1. First Aid kit is provided in the laboratory. 2. Laboratory is having Earthing. 3. Operate the circuits only under supervision of the faculty/instructor and as per instructions provided by lab manuals (or) instructors. 4. Never touch electrical equipment with wet hands or while standing on a wet surface. 5. Familiarize to students to use of fire extinguishers, first aid kits, emergency exits, and circuit breakers. 6. Avoid loose clothing, ties, or jewelry that can get caught in equipment. Wear insulated footwear and remove metallic accessories. 7. Laboratory equipped with Fire extinguisher(Class C) and sand buckets in working order for fire protection. 8. Wear Shoes to protect from shock and Lab coat for the safety of person. 9. Make sure all equipment is properly grounded to prevent electric shock. 10. Always turn off the power supply before connecting or disconnecting any components in a circuit. 11. Do not exceed voltage or current ratings of equipment and components. 12. Clearly label wires and terminals to avoid incorrect connections and short circuits. 13. Turn off all equipment and unplug devices after use.
3	Electrical Measurements lab	1. First Aid kit is provided in the laboratory. 2. Circuit Breakers are used to trip the circuit for any Mal functioning.

		3. Operate the circuits only under supervision of the faculty/instructor and as per instructions provided by lab manuals (or) instructors. 4. Familiarize to students to use of fire extinguishers, first aid kits, emergency exits, and circuit breakers. 5. Never touch electrical equipment with wet hands or while standing on a wet surface. 6. Laboratory equipped with Fire extinguisher(Class C) and sand buckets in working order for fire protection. 7. Laboratory is having Earthing. 8. Wear Shoes to protect from shock and Lab coat for the safety of person. 9. Avoid loose clothing, ties, or jewelry that can get caught in equipment. Wear insulated footwear and remove metallic accessories. 10. Make sure all equipment is properly grounded to prevent electric shock. 11. Always turn off the power supply before connecting or disconnecting any components in a circuit. 12. Do not exceed voltage or current ratings of equipment and components. 13. Clearly label wires and terminals to avoid incorrect connections and short circuits. 14. Turn off all equipment and unplug devices after use.
4	(i). Power Systems and Simulation Lab & (ii). Micro Processor and Micro Controller Lab	1. Operate the circuits only under supervision of the faculty/instructor and as per instructions provided by lab manuals (or) instructors. 2. Circuit Breakers are used to trip the circuit for any Mal functioning. 3. Laboratory is having Earthing. 4. Familiarize to students to use of fire extinguishers, first aid kits, emergency exits, and circuit breakers. 5. Laboratory equipped with Fire extinguisher(Class C) and sand buckets in working order for fire protection. 6. Avoid loose clothing, ties, or jewelry that can get caught in equipment. Wear insulated footwear and remove metallic accessories. 7. Never touch electrical equipment with wet hands or while standing on a wet surface. 8. Make sure all equipment is properly grounded to prevent electric shock. 9. Always turn off the power supply before connecting or disconnecting any components in a circuit. 10. Do not exceed voltage or current ratings of equipment and components. 11. Clearly label wires and terminals to avoid incorrect connections and short circuits. 12. Turn off all equipment and unplug devices after use.

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.	Project Lab-1(A-206)
2.	Project Lab-2(A-207)
3.	Advanced Electrical R & D Lab(B-313)

PART E: Fist 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
CAY (2024-25)	1046	52	43	13	0.73
CAYm1 (2023-24)	1032	52	44	13	0.72
CAYm2 (2022-23)	987	49	43	12	0.75
Average Percentage					0.73

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	8500000	5836325	13600000	13142381	7800000	7578803	8100000	7889432
Library	2200000	2004588	700000	649520	1850000	1694023	1350000	1329356
Laboratory equipment	50000000	48017418	63150000	61292177	29000000	27893493	17500000	16892887
Teaching and non-teaching staff salary	255000000	251588597	227500000	220898071	184000000	182771049	163000000	161591196
Outreach Programs	900000	374081	800000	458794	900000	751328	1200000	952221
R&D	6300000	6137311	5200000	5157669	5400000	5290207	4300000	4262596
Training, Placement and Industry linkage	9500000	6129256	10500000	9983394	5300000	5070981	9000000	8726081
SDGs	5500000	5179756	5000000	4870082	4200000	3922106	2500000	2421773
Entrepreneurship	300000	250121	100000	69721	75000	29011	50000	5000
Others*, pl. specify	195000000	185097322	190000000	190456345	182000000	172759932	194000000	184627590
Total amount	533200000	510614775	516550000	506978154	420525000	407761033	401000000	388698132

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 Expenses in CFYm2 2022-23	Budgeted in CFYm3 2021-22	Actual Expenses in CFYm3 2021-22
Laboratory equipment	3675000	3610800	60000	59,272	2500000	2278000	800000	780000
Software	800000	769493	0	0	0	0	0	0
SDGs	350000	323735	325000	304380	250000	245132	200000	172984
Support for faculty development	400000	383079	350000	323962	350000	316936	400000	383292
R & D	400000	378620	375000	356290	350000	325800	300000	292792
Industrial Training, Industry expert, Internship	125000	115633	125000	104358	125000	101813	125000	100357
Miscellaneous expenses *	4000000	3958640	12500000	12333334	12000000	11777047	14000000	13746170
Total amount	9750000	9540000	13735000	1,34,81,596	15575000	15044728	15825000	15475595