

NATIONAL BOARD OF ACCREDITATION

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

Program Name : Information Technology	Discipline : Engineering & Technology
Level : Under Graduate	Tier : 1
Application No : 10052	Date of Submission : 25-02-2025

PART A- Profile of the Institute

A1.Name of the Institute : VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY	
Year of Establishment : 2007	Location of the Institute: Madurai
A2. Institute Address :Velammal College of Engineering and Technology,Madurai Rameswaram High Road,Velammal Nagar, ViraganoorMadurai 625 009.	
City:Madurai	State:Tamil Nadu
Pin Code:625009	Website:www.vcet.ac.in
Email:principal@vcet.ac.in	Phone No(with STD Code):0452-2465289
A3. Name and Address of the Affiliating University (if any) :	
Name of the University : ANNA UNIVERSITY CHENNAI	City: Madurai
State : Tamil Nadu	Pin Code: 625009
A4. Type of the Institution : Autonomous CAY(2021-22)	
A5. Ownership Status : Self financing	

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

- No. of UG programs: **9**
- 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	2023	--	Artificial Intelligence and Data Science
2	Engineering & Technology	UG	Civil Engineering	2011	--	Civil Engineering
3	Engineering & Technology	PG	Communication Systems	2011	--	Electronics and Communication Engineering
4	Engineering & Technology	UG	Computer Science and Engineering	2007	--	Computer Science and Engineering
5	Engineering & Technology	PG	Computer Science and Engineering	2011	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2024	--	Computer Science and Engineering (Cyber Security)
7	Engineering & Technology	UG	Electrical and Electronics Engineering	2007	--	Electrical and Electronics Engineering
8	Engineering & Technology	UG	Electronics & Communication Engineering	2007	--	Electronics and Communication Engineering

9	Engineering & Technology	UG	Electronics Engineering (VLSI Design and Technology)	2024	--	Electronics Engineering (VLSI Design and Technology)
10	Engineering & Technology	UG	Information Technology	2007	--	Information Technology
11	Engineering & Technology	PG	Manufacturing Engineering	2011	--	Mechanical Engineering
12	Engineering & Technology	UG	Mechanical Engineering	2008	--	Mechanical Engineering
13	Engineering & Technology	PG	Network Engineering	2012	--	Information Technology
14	Engineering & Technology	PG	Power Systems Engineering	2013	--	Electrical and Electronics 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
Mechanical Engineering	No	Mechanical Engineering	UG
Electronics and Communication Engineering	Yes	Electronics & Communication Engineering	UG
Computer Science and Engineering	Yes	Computer Science and Engineering	UG
Information Technology	Yes	Information Technology	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)

Allied Department/Cluster Name	Program Name	Program Level
Information Technology	Computer Science and Engineering	UG
Information Technology	Artificial Intelligence and Data Science	UG
Information Technology	Computer Science and Engineering (Cyber Security)	UG
Information Technology	Computer Science and Engineering	PG

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 ACCREDITE
1	Information Technology	UG	2007 / --	60	Yes	2022	120	2022	2024-2025 EOA Issued on F.No.Southern/1-43664989643/2024/EOA 20-May-2024	Granted accreditation for 3 years for the period (specify period)	2022	2025	2

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 ACCREDITE
Sanctioned Intake for Last Five Years for the Information Technology													
Academic Year			Sanctioned Intake										
2024-25			120										
2023-24			120										
2022-23			120										
2021-22			90										
2020-21			90										
2019-20			60										

List of the Allied Departments/Cluster and Programs:

SR.NO.	ALLIED DEPARTMENT NAME	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
1	Information Technology	Computer Science and Engineering	UG	2007 / --	60	Yes	2022	180	2022	2024-2025 EOA Issued on F.No.Southern/1-43664989643/2024/EOA 20-May-2024	Granted accreditation for 3 years for the period (specify period)
Sanctioned Intake for Last Five Years for the Computer Science and Engineering											
Academic Year			Sanctioned Intake								
2024-25			180								
2023-24			180								
2022-23			180								
2021-22			120								
2020-21			120								
2019-20			120								
2	Information Technology	Artificial Intelligence and Data Science	UG	2023 / --	60	No	NA	60	2023	F.No. Southern/1-43664989643/2024/EOA/Corrigendum-1 Date of Approval:26-Jun-2024	Not eligible for accreditation
3	Information Technology	Computer Science and Engineering (Cyber Security)	UG	2024 / --	60	No	NA	60	2024	F.No. Southern/1-43664989643/2024/EOA/Corrigendum-1 Date of Approval:26-Jun-2024	Not eligible for accreditation

SR.NO.	ALLIED DEPARTMENT NAME	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 APPROVAL DETAILS	ACCREDITATION STATUS
4	Information Technology	Computer Science and Engineering	PG	2011 / --	18	Yes	2020	9	2020	2024-2025 EOA Issued on F.No.Southern/1-43664989643/2024/EOA 20-May-2024	Eligible but not applied

Sanctioned Intake for Last Five Years for the Computer Science and Engineering

Academic Year	Sanctioned Intake
2024-25	9
2023-24	9
2022-23	9
2021-22	9
2020-21	9
2019-20	18

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

A. Name of the HoD :	Dr. R. Kavitha
B. Nature of appointment:	Regular
C. Qualification:	ME/M. Tech and PhD

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)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	120	120	120	90	90	60	60
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	118	121	126	94	80	53	56
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	5	6	4	1	0	0
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	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.	118	126	132	98	81	53	56

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]
2024-25 (CAY)	120	0	0	98.33
2023-24 (CAYm1)	120	0	0	100.83
2022-23 (CAYm2)	120	0	0	105.00

Average [(ER1 + ER2 + ER3) / 3] = 101.39≡ 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	(2020-21) LYG	(2019-20) LYGm1	(2018-19) 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).	81.00	50.00	51.00
B=No. of students who graduated from the program in the stipulated course duration	77.00	50.00	51.00
Success Rate (SR)= (B/A) * 100	95.06	100.00	100.00

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 98.35

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)	7.92	8.41	8.00
Y=Total no. of successful students	101.00	115.00	92.00
Z=Total no. of students appeared in the examination	121.00	126.00	94.00
API [X*(Y/Z)]	6.61	7.68	7.83

Average API[(AP1+AP2+AP3)/3] : 7.37

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)	8.47	8.06	8.69
Y=Total no. of successful students	115.00	92.00	77.00
Z=Total no. of students appeared in the examination	121.00	96.00	79.00
API [X * (Y/Z)]	8.05	7.72	8.47

Average API [(AP1 + AP2 + AP3)/3] : 8.08

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)	7.99	8.05	8.61

Y=Total no. of successful students	92.00	77.00	50.00
Z=Total no. of students appeared in the examination	92.00	77.00	50.00
API [$X*(Y/Z)$]:	7.99	8.05	8.61

Average API [(AP1 + AP2 + AP3)/3] : 8.22

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2020-21)	LYGm1(2019-20)	LYGm2(2018-19)
FS*=Total no. of final year students	91.00	60.00	60.00
X=No. of students placed	64.00	37.00	43.00
Y=No. of students admitted to higher studies	1.00	3.00	0.00
Z=Total no. of students appeared in the examination	0.00	2.00	0.00
Placement Index(P) = $((X + Y + Z)/FS) * 100$:	71.43	70.00	71.67

Average Placement Index = $(P_1 + P_2 + P_3)/3$: 71.03 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. R. Kavitha	XXXXXXX66J	ME/M. Tech and PhD	Anna University, Chennai	Software Engineering and Data Mining	01/06/2007	17.7	Assistant Professor	Professor	01/04/2014	Regular	Yes		Yes
2	Dr. S. Kamalesh	XXXXXXX59L	ME/M. Tech and PhD	Anna University, Chennai	Wireless Sensor Networks, Artificial Intelligence/ Machine learning	20/01/2010	15	Assistant Professor	Professor	01/08/2023	Regular	Yes		No
3	Dr. R. Allen Joseph	XXXXXXX29M	ME/M. Tech and PhD	Anna University, Chennai	Artificial Intelligence and IoT	03/06/2024	0.8	Associate Professor	Associate Professor	03/06/2024	Regular	Yes		No
4	Mrs. M. Prabha	XXXXXXX94L	M.E/M.Tech	Kalasalingam University, Krishnankovil	Artificial Intelligence/Machine Learning and Cloud Computing	01/06/2013	11.7	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Mrs. P. Saraswathi	XXXXXXX95M	M.E/M.Tech	Kalasalingam University, Krishnankovil	Artificial Intelligence/Machine Learning	03/06/2013	11.7	Assistant Professor	Assistant Professor		Regular	Yes		No

6	Mr.S.Jegadeesan	XXXXXXX23C	M.E/M.Tech	Anna University, Chennai	Machine Learning, Network Security	15/06/2017	7.7	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Mrs. R. Nancy Deborah	XXXXXXX74F	M.E/M.Tech	Anna University, Chennai	Artificial Intelligence, Data Science	16/07/2018	6.6	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Mr. A. Gobinath	XXXXXXX81P	M.E/M.Tech	Anna University, Chennai	Communications, IoT	03/03/2021	3.10	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Mrs. C. Manjula Devi	XXXXXXX00D	M.E/M.Tech	Anna University, Chennai	Machine Learning, Internet of Things	25/08/2021	3.4	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Mrs. A. Vinora	XXXXXXX85E	M.E/M.Tech	Anna University, Chennai	Artificial Intelligence/Machine Learning	05/08/2022	2.5	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Mr. A. Srinivasan	XXXXXXX51P	M.E/M.Tech	Anna University, Trichy	Artificial Intelligence/Machine Learning, IoT	11/08/2022	2.5	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Mr. P. Kalyana Kumar	XXXXXXX15L	M.E/M.Tech	Anna University, Tirunelveli	Network security	11/08/2022	2.5	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Ms. G. Sivakarathi	XXXXXXX08M	M.E/M.Tech	Anna University, Chennai	Networks and IoT	01/08/2022	2.5	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Ms. M. Soundarya	XXXXXXX29E	M.E/M.Tech	Anna University, Chennai	Artificial Intelligence/Machine Learning	23/01/2023	2	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Mr. R. Umesh	XXXXXXX40L	M.E/M.Tech	Anna University, Trichy	Artificial intelligence, Data science	02/08/2023	1.5	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Mrs. J. John Shiny	XXXXXXX43K	M.E/M.Tech	Anna University, Chennai	Artificial Intelligence, Cloud Computing	02/08/2023	1.5	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Mrs. A. Periya Nayaki	XXXXXXX34M	M.E/M.Tech	Anna University, Chennai	Machine learning	01/09/2023	1.4	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Mr. K. Penyameen	XXXXXXX62C	M.E/M.Tech	Anna University, Chennai	Communications, Image Processing	13/09/2023	1.4	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Mrs. A. Elavarasi	XXXXXXX95Q	M.E/M.Tech	Anna University, Chennai	Artificial intelligence	09/09/2024	0.4	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Mrs. R. Chitra	XXXXXXX53D	M.E/M.Tech	SRM University	Artificial intelligence	06/11/2024	0.2	Assistant Professor	Assistant Professor		Regular	Yes		No

21	Dr. R. Perumalraja	XXXXXXX84N	ME/M. Tech and PhD	Carleton University, Canada	Wireless Networks and Security	30/09/2013	11.4	Associate Professor	Professor	01/07/2014	Regular	Yes		No
22	Dr. A. Shyamala	XXXXXXX79K	ME/M. Tech and PhD	Anna University, Chennai	Machine Learning	03/06/2024	0.3	Associate Professor	Associate Professor	03/06/2024	Regular	No	18/09/2024	No
23	Dr. A. S.Karthik Kannan	XXXXXXX97K	ME/M. Tech and PhD	Anna University, Chennai	Machine Learning	05/06/2024	0.2	Associate Professor	Associate Professor	05/06/2024	Regular	No	28/08/2024	No
24	Dr. M. Seema	XXXXXXX64E	ME/M. Tech and PhD	Anna University, Chennai	Embedded System	20/01/2012	13.1	Assistant Professor	Assistant Professor		Regular	Yes		No
25	Mrs. N. Shanmuga Sundari	XXXXXXX55P	M.E/M.Tech	Kalasalingam University	Image Processing and Network Security	11/12/2013	9.4	Assistant Professor	Assistant Professor		Regular	No	01/05/2023	No
26	Mr. P. SureshBabu	XXXXXXX45A	M.E/M.Tech	Anna University, Coimbatore	Deep Learning	02/06/2014	8.11	Assistant Professor	Assistant Professor		Regular	No	02/05/2023	No
27	Dr. P. Uma Maheswari	XXXXXXX55G	ME/M. Tech and PhD	Anna University, Chennai	Image Processing	06/06/2022	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No
28	Ms. S. Lavanya	XXXXXXX73R	M.E/M.Tech	Anna University, Chennai	Machine Learning	02/08/2023	0.7	Assistant Professor	Assistant Professor		Regular	No	30/03/2024	No
29	Dr. R. Raja Sudharsan	XXXXXXX98L	ME/M. Tech and PhD	Kalasalingam Academy of Research and Education	Medical Signal and Image Processing	03/02/2025	0	Associate Professor	Associate Professor	03/02/2025	Regular	Yes		No
30	Dr. R. Vijayalakshmi	XXXXXXX06J	ME/M. Tech and PhD	Anna University	Data Mining and Networking	03/06/2019	5.8	Associate Professor	Associate Professor	03/06/2019	Regular	Yes		No

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

Sr.No	Name of the Faculty	PAN No.	APAAR faculty ID*(if any)	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 HOC
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1	Dr.P.Alli	XXXXXXX27R	XXXXXXXXX426	ME/M. Tech and PhD	Madurai Kamaraj University	Image Processing, Network Security, Cryptography, Internet of Things, Cyber Security	28/05/2009	15.9	Professor	Professor		Regular	Yes		No
2	Dr.J.V.Architaalagammai	XXXXXXX49C	XXXXXXXXXX910	ME/M. Tech and PhD	Anna University	Network Security, Cryptography, Internet of Things, Cyber Security, Block Chain Technology	21/03/2011	13.11	Assistant Professor	Professor	01/08/2023	Regular	Yes		No
3	Dr.A.M.Rajeswari	XXXXXXX31K	XXXXXXXXXX000	ME/M. Tech and PhD	Anna University	Databases, Data Mining, Outlier Detection, Machine Learning, Artificial Intelligence	09/08/2021	3.6	Associate Professor	Associate Professor	09/08/2021	Regular	Yes		No
4	Dr.S.Ponmalar	XXXXXXX18D	XXXXXXXXXX971	ME/M. Tech and PhD	Anna University	Optical Communication and Networks, Internet of Things, Machine Learning	05/07/2022	2.7	Associate Professor	Associate Professor	05/07/2022	Regular	Yes		No
5	Dr.M.Annalakshmi	XXXXXXX64E	XXXXXXXXXX843	ME/M. Tech and PhD	Anna University	Image Processing ,Computer Vision and Pattern Recognition	03/06/2024	0.8	Associate Professor	Associate Professor	03/06/2024	Regular	Yes		No
6	Dr.V.Akilandeswari	XXXXXXX83R	XXXXXXXXXX483	ME/M. Tech and PhD	Anna University	Network Security& Machine Learning	03/06/2024	0.8	Associate Professor	Associate Professor	03/06/2024	Regular	Yes		No
7	Dr.S.SenthilKumar	XXXXXXX28N	XXXXXXXXXX841	ME/M. Tech and PhD	Anna University	Communication	03/06/2024	0.8	Associate Professor	Associate Professor	03/07/2024	Regular	Yes		No
8	Mrs.C.B.Selva Lakshmi	XXXXXXX76H	XXXXXXXXXX513	M.E/M. Tech	Anna University	Data Mining	07/06/2010	14.8	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Mr.KR.Senthil Murugan	XXXXXXX43F	XXXXXXXXXX140	M.E/M. Tech	Anna University	Deep Learning, Medical Image Processing	10/06/2022	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No

10	Mrs.S.Padma Devi	XXXXXX54H	XXXXXXXX185	M.E/M.Tech	Anna University	Wireless Networks & Mobile App	14/07/2010	14.7	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Dr..S.Kavitha	XXXXXX57N	XXXXXXXX308	ME/M. Tech and PhD	Anna University	Deep learning, Network security	04/06/2012	12.8	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Ms.J.Shanthalakshmi Revathy	XXXXXX39R	NA	M.E/M.Tech	Anna University	Data Analytics	01/06/2012	12.8	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Mrs.R.Sarala	XXXXXX57C	XXXXXXXX039	M.E/M.Tech	Anna University	Image Processing,IOT	02/06/2014	10.8	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Mr.S.Murali	XXXXXX79M	XXXXXXXX763	M.E/M.Tech	Anna University	IoT,Software Testing	08/06/2009	15.8	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Mrs.S.Sangeetha	XXXXXX71M	NA	M.E/M.Tech	Karunya University	Data Mining, Data Science	03/06/2024	0.8	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Mr.G.Ram Sankar	XXXXXX41B	XXXXXXXX799	M.E/M.Tech	Anna University	IoT,Software Testing	05/06/2024	0.8	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Mrs.V.Lavanya	XXXXXX49K	XXXXXXXX113	M.E/M.Tech	Anna University	Image Processing,IoT	03/06/2013	11.8	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Mrs.K.Santha Sheela	XXXXXX36F	XXXXXXXX014	M.E/M.Tech	Anna University	IoT	15/02/2017	8	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Mrs.Aruna Sakthi.K	XXXXXX70G	NA	M.E/M.Tech	Anna University	Machine Learning	20/04/2022	2.10	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Mr.Bala Murali Krishnan G	XXXXXX05L	NA	M.E/M.Tech	Anna University	Block Chain, Data Science, Cloud Computing, Network Security	20/04/2022	2.10	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Mrs.Sahebzathi.S	XXXXXX16C	NA	M.E/M.Tech	Anna University	Artificial Intelligence and Machine Learning	03/08/2023	1.6	Assistant Professor	Assistant Professor		Regular	Yes		No
22	Mrs.Swedheetha.C		XXXXXXXX104	M.E/M.Tech	Anna University	Communication systems	11/08/2023	1.6	Assistant Professor	Assistant Professor		Regular	Yes		No
23	Mrs.P.Bharathi	XXXXXX50Q	NA	M.E/M.Tech	SRM University	Big Data	01/09/2023	1.5	Assistant Professor	Assistant Professor		Regular	Yes		
24	Mrs.Niranjana R	XXXXXX65P	XXXXXXXX356	M.E/M.Tech	Anna University	Artificial Intelligence	11/09/2023	1.5	Assistant Professor	Assistant Professor		Regular	Yes		
25	Mrs.R.Pavithra	XXXXXX86D	XXXXXXXX601	M.E/M.Tech	Anna University	Cloud computing	03/06/2024	0.8	Assistant Professor	Assistant Professor		Regular	Yes		
26	Mrs.N.P.Rajeswari	XXXXXX45A	XXXXXXXX572	M.E/M.Tech	Anna University	Computer Networks and Image Processing	03/06/2024	0.8	Assistant Professor	Assistant Professor		Regular	Yes		

27	Mrs.T.Saranya	XXXXXXX78C	XXXXXXXXX266	M.E/M. Tech	Kalasalingam University	Cloud Computing, IoT, Networks	03/06/2024	0.8	Assistant Professor	Assistant Professor		Regular	Yes		
28	Mrs.D.Jansi Rani	XXXXXXX31F	XXXXXXXXX835	M.E/M. Tech	Anna University	Cloud computing	10/06/2024	0.8	Assistant Professor	Assistant Professor		Regular	Yes		
29	Mrs.A.Benazir Begum	XXXXXXX93A	NA	M.E/M. Tech	Anna University	Computer Networks ,Cloud Computing	19/06/2024	0.8	Assistant Professor	Assistant Professor		Regular	Yes		
30	Mr.B.Sakthi karthi Durai	XXXXXXX33J	NA	M.E/M. Tech	Kalasalingam University	Image Processing, Data Mining	24/08/2021	1.8	Assistant Professor	Assistant Professor		Regular	No	29/04/2023	
31	Dr.S.Sasikala	XXXXXXX41R	NA	ME/M. Tech and PhD	Anna University	Data mining, machine learning and deep learning	05/08/2019	5.6	Associate Professor	Professor	01/08/2023	Regular	Yes		
32	Dr.T.Grace Shalini	XXXXXXX73E	NA	ME/M. Tech and PhD	Anna University	Wireless Sensor Network	15/06/2017	6.1	Assistant Professor	Assistant Professor		Regular	No	01/08/2023	
33	Dr.R.Deepalakshmi	XXXXXXX98E	NA	ME/M. Tech and PhD	Anna University	High performance communication networks, IoT, cyber Security	03/05/2007	16.11	Assistant Professor	Professor	01/08/2014	Regular	No	30/03/2024	
34	Dr.G.Vinoth Chakkaravarthy	XXXXXXX04A	XXXXXXXXX688	ME/M. Tech and PhD	Anna University	Network Security, Cryptography, Internet of Things, Cyber Security, Block Chain Technology	01/06/2009	15.9	Assistant Professor	Professor	01/08/2023	Regular	Yes		
35	Mr.K.Azarudeen	XXXXXXX76M	NA	M.E/M. Tech	Anna University	Compiler Design	01/06/2012	12.8	Assistant Professor	Assistant Professor		Regular	Yes		
36	Dr.T.Thenmozhi	XXXXXXX31B	NA	ME/M. Tech and PhD	Anna University	Bio Medical Machine Learning, Deep Learning and Artificial Intelligence	03/06/2024	0.8	Assistant Professor	Assistant Professor		Regular	Yes		
37	Mrs.N.Vishnu Devi	XXXXXXX17K	NA	M.E/M. Tech	Anna University	Medical Image Analysis	03/06/2024	0.8	Assistant Professor	Assistant Professor		Regular	Yes		
38	Dr. M. Raghini	XXXXXXX83J	NA	ME/M. Tech and PhD	Anna University	Wireless Sensor Networks, Cryptography and Network Security	11/09/2023	1.5	Assistant Professor	Assistant Professor		Regular	Yes		No

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 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)).

No. of UG Programs in the Department4 No. of PG Programs in the Department1

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

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
UG1.B	125	126	94
UG1.C	126	94	91
UG1.D	94	91	60
UG1: Information Technology	345	311	245
UG2.B	0	0	0
UG2.C	0	0	0
UG2.D	0	0	0
UG2: Computer Science and Engineering (Cyber Security)	0	0	0
UG3.B	62	0	0
UG3.C	0	0	0
UG3.D	0	0	0
UG3: Artificial Intelligence and Data Science	62	0	0
UG4.B	187	189	124
UG4.C	189	124	128
UG4.D	124	128	124
UG4: Computer Science and Engineering	500	441	376
PG1.A	9	9	9
PG1.B	9	9	9
PG1: Computer Science and Engineering	18	18	18
PG2.A	9	9	9
PG2.B	9	9	9

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
PG2: Network Engineering	18	18	18
DS=Total no. of students in all UG and PG programs in the Department	363	329	263
AS=Total no. of students of all UG and PG programs in allied departments	580	459	394
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 943	S2= 788	S3= 657
DF=Total no. of faculty members in the Department	22	19	18
AF= Total no. of faculty members in the allied Departments	35	20	20
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 57	F2= 39	F3= 38
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0	0	0
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 16.54	SFR2= 20.21	SFR3= 17.29
Average SFR for 3 years	SFR= 18.01		

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	$FQ = 2.5 \times [(10X + 4Y) / RF]$
2024-25(CAY)	6	40	46.00	11.96
2023-24(CAYm1)	10	29	38.00	14.21
2022-23(CAYm2)	12	28	31.00	18.71

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
2024-25	5.00	7.00	10.00	7.00	30.00	43.00
2023-24	4.00	7.00	8.00	3.00	25.00	29.00
2022-23	3.00	4.00	7.00	7.00	21.00	27.00
Average	RF1=4.00	AF1=6.00	RF2=8.33	AF2=5.67	RF2=25.33	AF2=33.00

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. M. Jahir Hussain, Mr. P. Nagarajan	Instructors	BSEtec, Madurai.	Mongodb Basics	15.00

(CAYm2)

(CAYm3)

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
1	No. of peer reviewed journal papers published	6	12	1
2	No. of peer reviewed conference papers published	63	22	3
3	No. of books/book chapters published	12	6	0

C7. Sponsored Research Project

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

(CAYm1)

(CAYm2)

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.R.PerumalrajA	Dr.S.Kamalesh & Dr.R.Kavitha	Information Technology	Design and Development of Low-cost Nutrient Sensors and Smart Solar Powered Fertigation System	DST	2 Years	19.94
Mr. A. Gobinath		Information Technology	Artificial Intelligence enabled robotic stacker for Mechanized Distribution of food grains	MSME	2 Years	8.67
						Amount received (Rs.):28.61

(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.R.PerumalrajA	Dr.R.Kavitha & Dr.S.Kamalesh	Information Technology	Modernization of IoT lab with data science and cloud infrastructure	AICTE	2 Years	6.80
						Amount received (Rs.):6.80

Total Amount (Lacs) Received for the Past 3 Years: 35.41

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)

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
						Amount received (Rs.):0

(CAYm2)

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
Mr. A. Gobinath		Information Technology	Artificial Intelligence enabled robotic stacker for Mechanized Distribution of food grains	MSME	2 Years	1.92
						Amount received (Rs.):1.92

(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
						Amount received (Rs.):0

Total amount (Lacs) received for the past 3 years: 1.92**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
Dr.R. Kavitha	Project Developed	1 Year	0.08	0.08	Paper Published
Dr.S. Kamalesh	Project Developed	1 Year	0.04	0.04	Paper Published
Mrs.M. Prabha	Project Developed	1 Year	0.06	0.06	Paper Published
Mrs.P. Saraswathi	Project Developed	1 Year	0.06	0.06	Paper Published
Mr.S. Jegadeesan	Project Developed	1 Year	0.05	0.05	Paper Published
Mr.A. Gobinath	Project Developed	1 Year	0.06	0.06	Paper Published
Mrs.R. Nancy Deborah	Project Developed	1 Year	0.03	0.03	Paper Published
Mrs.C. Manjula Devi	Project Developed	1 Year	0.04	0.04	Paper Published
Mrs.A. Vinora	Project Developed	1 Year	0.03	0.03	Paper Published
Mr.A. Srinivasan	Project Developed	1 Year	0.02	0.02	Paper Published
Mr.P. Kalyana kumar	Project Developed	1 Year	0.04	0.04	Paper Published
Ms.G. Sivakarathi	Project Developed	1 Year	0.04	0.04	Paper Published
Ms.M. Soundarya	Project Developed	1 Year	0.02	0.02	Paper Published
Mr.R. Umesh	Project Developed	1 Year	0.03	0.03	Paper Published
Mr.K. Penyameen	Project Developed	1 Year	0.01	0.01	Paper Published
			Amount received (Rs.): 0.61		

(CAYm2)

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
Mr. A. Gobinath	Artificial Intelligence enabled robotic stacker for Mechanized Distribution of food grains	1 Year	1.30	1.30	Developed a model for distribution of food grains using AI enabled stacker.
			Amount received (Rs.): 1.30		

(CAYm3)

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
			Amount received (Rs.): 0		

Total amount (Lacs) received for the past 3 years : 1.91

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	Software Programming Laboratory	33	Computer Systems- 62 Printer-1	Fully Utilized. (	Mr. K. Suresh Kannan	System Administrator	B.Sc., MBA
2	Free Open Source Software Laboratory	33	Computer Systems- 35 Printer-1	Fully Utilized. (	Mr. K. Loganathan	System Administrator	BE.
3	Web Application Development Laboratory	33	Computer Systems- 39	Fully Utilized. (2	Mr. R. Vigneshwaran	Lab Instructor	B.Com.
4	Project Laboratory	33	Hardware configuration: Intel Core 2 duo processor, 1PRMBD,24B(2x1 GB) RAM, 160GB,SATA HDD, 54 inch LCD Monitor, Desktop and 43" TFT Color	Fully Utilized. (	Mr. R. Ajay	Lab Instructor	B.Sc.
5	IoT Laboratory	33	Hardware configuration: Arduino Raspberry Pi ESP8266, ESP32 Sensors like temperature, humidity, proximity, motion and etc sensors	Fully Utilized. (	Mr. R. Ajay	Lab Instructor	B.Sc.
6	Server Room	4	Server-1; Printer-2	60 hours	Mr. K. Loganathan	System Administrator	BE.

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Software Programming Laboratory	1.Fire extinguisher 2.First aid box 3.Anti Virus 4.Display boards showing • Dos • Don'ts • Safety measures
2	Free Open Source Software Laboratory	1.Fire extinguisher 2.First aid box 3. Anti Virus 4. Display boards showing • Dos • Don'ts • Safety measures
3	Web Application Development Laboratory	1. Fire extinguisher 2. First aid box 3. Anti Virus 4. Display boards showing • Dos • Don'ts • Safety measures
4	Project Laboratory	1. Fire extinguisher 2. First aid box 3. Anti Virus 4. Display boards showing • Dos • Don'ts • Safety measures
5	IoT Laboratory	1. Fire extinguisher 2. First aid box 3. Display boards showing • Dos • Don'ts • Safety measures

6	UG LAB III	1.Fire extinguisher 2.First aid box 3.Anti Virus 4.Display boards showing • Dos • Don'ts • Safety measures
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D3. Project Laboratory/Research Laboratory

The project lab is allowed to utilize for academics as well as research purposes. The laboratory is equipped with computer systems with necessary software and is sufficient to do the projects in different areas. This lab is particularly used for the students those who do mini projects as well as final year projects.

1. In IT department, an exclusive lab is equipped with 40 computers is available for project work to be carried out by students of all semesters.
2. Project Laboratory enables UG students to obtain hands-on experience and to realize their project ideas as executable projects.
3. Several successful projects have been carried out by students in this lab.
4. Students use this lab to compete in several Hackathons and have won various awards across India.
5. High speed internet facilities are always available to these systems.
6. This lab is equipped with three 20 KVA and one 10 KVA UPS along with batteries which are used as backup to support power failures
7. Final year project and mini project of all semesters are carried out in this lab.
8. The IoT lab is equipped with sensors, arduino board and other components for carrying out successful projects in IoT space.

The infrastructure details are given in Table 7.5.1

Table No. 7.5.1: List of project laboratory/research laboratory /Centre of Excellence.

<u>S.No</u>	<u>Name of the Laboratory</u>
1	Project Lab
2	IoT Lab
3	AICTE IDEA Lab

Some outcomes of this Project Laboratory

- Dinesh T. S. from IV IT B participated in the **Auroitech Hackathon 1.0** held on January 20, 2024, at Auroitech Madurai and secured the second place with a cash award of Rs. 10,000.

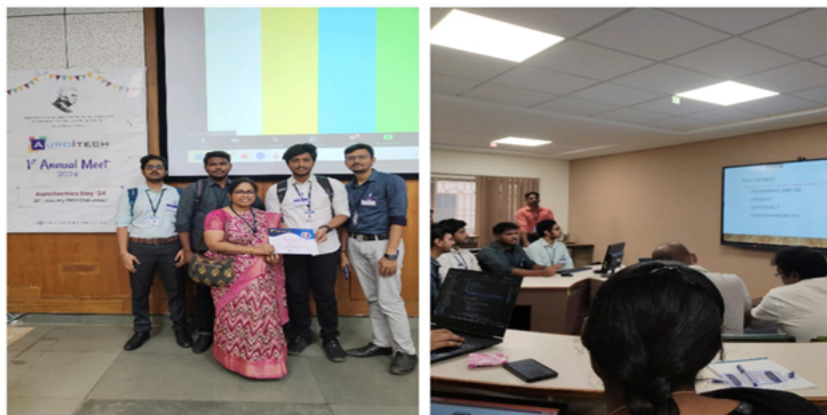


Fig No. 7.5.1: Auroitech Hackathon 1.0.

- Ammaiappan K, Dinesh T. S, and Janav G from IV IT B guided by Mr. A. Srinivasan, participated in **NM-Niral Thiruvizha** with their project on "Medicinal Plant Classification Using Machine Learning" and won a prize of Rs. 10,000.
- Srinivasa Pandian S and Boopalan S from IV IT A guided by Mr. P.Kalayana Kumar, participated in **NM-Niral Thiruvizha** with their project on "Forest Fire Prediction using Machine Learning" and won a prize of Rs. 10,000.
- Vigneshwaran S. and Shiva Dhanush K.V from IV IT A guided by Mrs.R.Nancy Deborah, participated in **NM-Niral Thiruvizha** with their project on "A Secure Chat Application Chat Interface of Prisoner and Lawyer" and won a prize of Rs. 10,000.



Fig No. 7.5.2: Students participation in NIRAL Thiruvizha 2024 (Project contest) organized by the Government of Tamil Nadu.

MSME funding by using this Project Laboratory

Project Title: Artificial Intelligence Enabled robotic stacker for Mechanized Distribution of food grains

Funding Agency and Amount: MSME and 8.67 lakhs

Summary of the project:

The aim of the research project is to design and implement a stacker integrated with Artificial Intelligence (AI) and Robotics to enhance efficiency and accuracy in handling operations, particularly in food grain godowns and good-shed environments. The specific objectives of the project include the development of an AI-based robotic arm with a conveyor system to assess the quality of packing, ensuring consistent and reliable packaging standards. Additionally, the project aims to achieve quick turnaround times for loading and unloading operations, streamlining logistical processes and minimizing downtime. Another key objective is to implement a bag counting mechanism using AI technology, enabling precise and automated tracking of the number of bags handled in food grain go downs and good-shed facilities.

विकास आयोग का कार्यालय
(गुडम, लघु एवं मध्यम उद्यम)
गुडम, लघु एवं मध्यम उद्यम विभाग
(अर्थ विभाग)

Office of the Development Commissioner
(MICRO, SMALL & MEDIUM ENTERPRISES)
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
GOVERNMENT OF INDIA
Niroux Bhawan, 7th Floor, Madana Aard Road,
New Delhi-110 108

Ph. EPAX-23063500, 23063502, 23063503, 23063504, 23063505 & 23063506

File No.: 17(2)/MSME Innovative/PMAC/2021-22 Date: 23-07-2022

To,
VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY

Subject: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovative Scheme (Incubation, Design & IPR) of MSME Champion Scheme for GoI assistance-reg.

Sir,

I am directed to inform you that the idea(s) / proposals received from your Institute under the above scheme were considered to the PMAC meeting held on 22/06/2022. The committee has approved this idea(s). The details of approved idea / proposal are as under.

Sl. No.	Name of Incubatee and proposed idea of innovation	Project cost	Amount Sanctioned as GoI Share (Rs. in lakhs)	Incubatee Share (Rs. in lakhs)
1	Odyssey Arunagiri - Arun Artificial Intelligence Enabled robotic stacker for Mechanized Distribution of food grains	8.670	7.370	1.301

Fig No. 7.5.3: Funding from MSME



Fig No. 7.5.4: Artificial Intelligence Enabled robotic stacker Project Review in MSME hub.

Selected Best Projects from 2019-2023 Batch:

1. **Smart Glasses: A Visual Assistant for Visually Impaired** - It is a software Project which is helpful for the society. External Examiner provided good opinion on this project. It is presented in International Conference and Indexed by Scopus Database-**Rank I**.
2. **Identification of Delirium from Electronic Health Records Using ML** - This software project is presented in International Conference and Indexed by Scopus Database-**Rank II**
3. **Automatic Segmentation of Mandibular Condylar in Dental Opgimages using Modified Mask RCNN** - This Software Project is presented in International Conference and Indexed by Scopus Database- **Rank III**.
4. **Serutinization and Abstraction of Unstructured HER using NLP and Deep Learning** - This Project is research oriented which is helpful to the society in which it adopts the latest technology NLP. It is Presented in International Conference and Indexed by Scopus Database-**Rank IV**.



Fig No. 7.5.5: Students Publication in IEEE conferences.

Selected Best Projects from 2020-2024 Batch

1. **House Price Prediction with Advanced Machine Learning Techniques** – Have published paper in IEEE and the paper has been awarded as “Best Project”. Have done project in collaboration with industry training.
2. **Comparative Analysis for Sales Prediction and Deployment System for Big Mart Stores: Unveiling the Optimal Model using Machine Learning** – Have published paper in IEEE .Have done project in collaboration with industry training
3. **Efficient Information Retrieval : AWS Extract in Action** – Have published paper in Springer and a variation of the project has won a prize of Rs.10000 in project competition
4. **Military Aircraft Detection using Deep Learning**- Have published paper in IEEE and received good comments from anna university external examiner.
5. **Voice Assistant with AI Chat Integration and Image Generation using OpenAI** - Have published paper in IEEE and received good comments from anna university external examiner.



Fig No. 7.5.6: Students Publication in IEEE conference.

AICTE IDEA LAB

AICTE (All India Council for Technical Education) sponsors "IDEA Labs" (Idea Development, Evaluation & Application Labs) in AICTE-approved institutions to encourage students to apply STEM fundamentals, fostering hands-on experience, learning by doing, and product visualization. As of now, there are 110 AICTE IDEA (Idea Development, Evaluation & Application) Labs established across India and we are proud to say we are among the one. These labs are part of an initiative by the All India Council for Technical Education (AICTE) to promote hands-on learning, innovation, and product development in technical institutions. AICTE approved the launching of IDEA Lab in our Institution. Students are encouraged to utilize the IDEA lab to fabricate their innovative ideas into products and participated in various competitions.



Fig No. 7.5.7: Students Publication under AICTE IDEA Lab.

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 $((NS1*0.8) + (NS2*0.2)) / (\text{No. of required faculty (RF4)})$; Percentage= $((NS1*0.8) + (NS2*0.2)) / RF$
2022-23(CAYm2)	600	30	19	8	56
2023-24(CAYm1)	660	33	22	9	59
2024-25(CAY)	840	42	26	12	55

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 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Infrastructure Built-Up	30000000	7500000	20000000	13567087	20000000	16276200	2000000	1033633
Library	2155000	1800000	2230000	1786589	1448000	974449	1833000	1344752
Laboratory equipment	60987795	10000000	5788461	5215310	22335412	10582939	9437318	443708
Teaching and non-teaching staff salary	130000000	122950689	122653013	111502739	98308624	89371477	91107566	82825060
Outreach Programs	70000	60350	80000	71500	100000	93000	62000	56650
R&D	5255000	0	2337560	2129609	296500	1422335	585500	1901137
Training, Placement and Industry linkage	0	0	0	0	0	0	0	0
SDGs	60000	50085	0	0	0	0	0	0
Entrepreneurship	0	0	0	0	0	0	0	0
Others, specify								
Total	228527795	142361124	153089034	134272834	142488536	118720400	105025384	87604940

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 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Laboratory equipment	21500	0	128000	140100	6262000	6137000	2100000	0

Software	0	0	0	0	0	0	0	0
SDGs	0	0	0	0	0	0	0	0
Support for faculty development	20000	18000	10000	10500	35000	18944	10000	0
R & D	5000	0	5000	0	20000	0	100000	0
Industrial Training, Industry expert, Internship	10000	0	10000	0	10000	0	5000	0
Miscellaneous Expenses*	30000	32200	20000	8504	227000	7870	300000	359910
Total	86500	50200	173000	159104	6554000	6163814	2515000	359910