NATIONAL BOARD OF ACCREDITATION

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

Program Name : Electronics & Communication Engineering	**Discipline**: Engineering & Technology
Level : Under Graduate	**Tier**: 2
Application No: 11203	**Date of Submission**: 11-12-2025

PART A- Profile of the Institute

A1.Name of the Institute: Mangalam College of Engineering	
Year of Establishment : 2002	Location of the Institute: Ettumanoor
A2. Institute Address:MANGALAM COLLEGE OF ENGINEERING MANGALAM HILLS VETTIMUKAL .P.O ETTUMANOOR	
City:Kottayam	State:Kerala
Pin Code:686631	Website:www.mangalam.ac.in
Email:rajesh.roy@mangalam.in	Phone No(with STD Code):0481-2710120
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Mahatma Gandhi University Kottayam Kerala	City: Thiruvananthapuram
State : Kerala	Pin Code: 695016
A4. Type of the Institution: Self-Supported Institute	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **10**
- No. of PG programs: **7**

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	Computer Application	PG	Master of Computer Application	2022	--	Computer Application
2	Engineering & Technology	UG	Artificial Intelligence and Machine Learning	2021	--	Artificial Intelligence and Machine Learning
3	Engineering & Technology	UG	Chemical Engineering	2021	--	Chemical Engineering
4	Engineering & Technology	UG	Civil Engineering	2010	--	Civil Engineering
5	Engineering & Technology	Diploma	Civil Engineering	2020	--	Civil Engineering
6	Engineering & Technology	Diploma	Computer Engineering	2020	--	Computer Engineering
7	Engineering & Technology	UG	Computer Science and Business System	2024	--	Artificial Intelligence and Machine Learning
8	Engineering & Technology	UG	Computer Science and Engineering	2002	--	Computer Science and Engineering
9	Engineering & Technology	PG	Computer Science and Engineering	2012	--	Computer Science and Engineering
10	Engineering & Technology	UG	Electrical & Electronics Engineering	2002	--	Electrical and Electronics Engineering
11	Engineering & Technology	Diploma	Electrical and Electronics Engineering	2020	--	Electrical and Electronics Engineering
12	Engineering & Technology	UG	Electronics & Communication Engineering	2002	--	Electronics and Communication Engineering
13	Engineering & Technology	UG	Electronics & Computer Engineering	2024	--	Electronics and Communication Engineering
14	Engineering & Technology	PG	Industrial Engineering and Management	2010	--	Mechanical Engineering
15	Engineering & Technology	UG	Mechanical Engineering	2004	--	Mechanical Engineering
16	Engineering & Technology	Diploma	Mechanical Engineering	2020	--	Mechanical Engineering
17	Engineering & Technology	Diploma	Polymer Technology	2020	--	Polymer Technology
18	Engineering & Technology	PG	Power Electronics & Power Systems	2012	--	Electrical and Electronics Engineering
19	Engineering & Technology	UG	Safety & Fire Engineering	2024	--	Chemical Engineering
20	Engineering & Technology	PG	Structural Engineering & Construction Management	2014	--	Civil Engineering
21	Engineering & Technology	PG	VLSI & Embedded Systems	2011	--	Electronics and Communication Engineering
22	Management	PG	Master of Business Administration	2005	--	Management

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
Computer Science and Engineering	Yes	Computer Science and Engineering	UG
Civil Engineering	No	Civil Engineering	UG
Mechanical Engineering	No	Mechanical Engineering	UG
Electronics and Communication Engineering	Yes	Electronics & Communication Engineering	UG

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

Allied Department/Cluster Name	Program Name	Program Level
Electronics and Communication Engineering	Electronics & Computer Engineering	UG

PART-B: Program information

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

Table No. B1: Program details.
A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/ DECREASE INTAKE (if any)	YEAR OF INCREASE/ DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Electronics & Communication Engineering	UG	2002 / --	60	No	NA	60	2002	South-West/1-44641396927/2025/EOA	Granted accreditation for 3 years for the period (specify period)	2023	2026	1	4

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	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Electronics and Communication Engineering	Electronics & Computer Engineering	UG	2024 / --	60	No	NA	60	2024	South-West/1-44641396927/2025/EOA	Not eligible for accreditation	--	--	0	4

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

A. Name of the HoD :	Dr. Abraham C G
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE / Competent authority)	60	60	60	60	60	60	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	27	30	61	61	38	35	41
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	1	2	2	4	2	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.	27	31	63	63	42	37	41

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

B4. Enrolment Ratio in the First Year

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

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	60	27	0	45.00
2024-25 (CAYm1)	60	30	0	50.00
2023-24 (CAYm2)	60	61	0	101.67

Average [(ER1 + ER2 + ER3) / 3] = 65.56≡ 11.00

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

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

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	64.00	62.00	60.00
B=No. of students who graduated from the program in the stipulated course duration	9.00	17.00	24.00
Success Rate (SR)= (B/A) * 100	14.06	27.42	40.00

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 27.16

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

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

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
Mean of CGPA or mean percentage of all successful students(X)	7.67	6.89	6.67
Y=Total no. of successful students	7.00	19.00	14.00
Z=Total no. of students appeared in the examination	30.00	61.00	61.00
API [X*(Y/Z)]	1.79	2.15	1.53

Average API[(AP1+AP2+AP3)/3] : 1.82

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	7.17	7.26	7.04
Y=Total no. of successful students	16.00	8.00	9.00
Z=Total no. of students appeared in the examination	21.00	16.00	16.00

API [X * (Y/Z)]	5.46	3.63	3.96

Average API [(AP1 + AP2 + AP3)/3] : 4.35

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.50	6.95	7.12
Y=Total no. of successful students	8.00	9.00	17.00
Z=Total no. of students appeared in the examination	8.00	9.00	17.00
API [X*(Y/Z)]:	7.50	6.95	7.12

Average API [(AP1 + AP2 + AP3)/3] : 7.19

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	64.00	62.00	60.00
X=No. of students placed	30.00	23.00	28.00
Y=No. of students admitted to higher studies	1.00	4.00	6.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	48.44	43.55	56.67

Average Placement Index = (P_1 + P_2 + P_3)/3: 49.55 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. Abraham C G	XXXXXXX91K	Ph.D	Anna University	Low Power VLSI Design with Artificial Intelligence and Machine Learning	08/11/2021	4	Professor	Professor	08/11/2021	Regular	Yes		Yes
2	Dr. Devika Sarath	XXXXXXX50F	Ph.D	Noorul Islam Centre for Higher Education	Image Processing	19/11/2021	4	Assistant Professor	Associate Professor	01/08/2024	Regular	Yes		No
3	Ms. Jyothisree K R	XXXXXXX61J	M.E.	Anna University	Embedded System Technologies	08/08/2007	18.4	Assistant Professor	Associate Professor	01/01/2018	Regular	Yes		No
4	Ms. Mariya Stephen	XXXXXXX27C	M.Tech	M G University	VLSI & Embedded Systems	01/08/2016	9.4	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Mr. Banjo C Babu	XXXXXXX55P	M.E.	Anna University	Communication Systems	02/06/2025	0.6	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Ms. Resma Chandran V P	XXXXXXX71F	M.E.	Anna University	Applied Electronics	08/07/2024	1.4	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Mr. Ajeesh S	XXXXXXX13L	M.Tech	M G University	Communication Engineering	02/12/2022	3	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Ms. Meera Boban	XXXXXXX75F	M.E.	Anna University	Computer and Communication Engineering	03/02/2025	0.10	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Ms. Neeba George	XXXXXXX81F	M.Tech	M G University	Applied Electronics	27/01/2025	0.10	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Mr. Jaleel P K	XXXXXXX59G	M.Tech	Indira Gandhi National Open University	Embedded System Design	20/12/2021	3.11	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Ms. Aparna Jose	XXXXXXX57P	M.Tech	A P J Abdul Kalam Technological University	VLSI & Embedded Systems	11/03/2023	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Mr. Sumesh Chandran R	XXXXXXX69B	M.E.	Anna University	Communication Systems	08/01/2021	4.10	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Dr. Deepthy Mary Alex	XXXXXXX48M	Ph.D	Karunya University	Image Processing	08/02/2023	2.3	Associate Professor	Associate Professor		Regular	No	27/05/2025	No
14	Mr. Lijosh Mathews	XXXXXXX56R	M.E.	Anna University	Applied Electronics	01/02/2024	1.4	Assistant Professor	Assistant Professor		Regular	No	28/06/2025	No
15	Ms. Neethan Elizabeth Abraham	XXXXXXX63C	M.Tech	M G University	Communication Engineering	26/05/2015	9.4	Assistant Professor	Assistant Professor		Regular	No	27/09/2024	No
16	Dr. Reena Thomas	XXXXXXX45M	Ph.D	Nooril Islam Centre for Higher Education	Image Processing	17/10/2022	0.8	Associate Professor	Associate Professor		Regular	No	07/07/2023	No

17	Dr. R Radeep Krishna	XXXXXXX74J	Ph.D	Karpagam Academy of Higher Education	VLSI Physical Design 3D IC	17/12/2021	3	Associate Professor	Associate Professor		Regular	No	31/12/2024	No
18	Ms. Jisnu Mohan	XXXXXXX83P	M.E.	Anna University	Applied Electronics	06/01/2020	4.5	Assistant Professor	Assistant Professor		Regular	No	28/06/2024	No
19	Ms. Jibi K Kurian	XXXXXXX23B	M.Tech	M G University	VLSI & Embedded Systems	11/03/2023	0.10	Assistant Professor	Assistant Professor		Regular	No	20/01/2024	No
20	Ms. Raseena Yousaf	XXXXXXX69J	M.Tech	M G University	Communication Engineering	21/11/2022	0.8	Assistant Professor	Assistant Professor		Regular	No	31/07/2023	No
21	Ms. Lekshmi M Nair	XXXXXXX35D	M.Tech	M G University	Advanced Communication & Information Systems	08/02/2023	0.5	Assistant Professor	Assistant Professor		Regular	No	31/07/2023	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 HOD?
1	Ms. Shiney M Abraham	XXXXXXX16A	NA	M.Tech	M G University	Applied Electronics	23/01/2024	1.10	Assistant Professor	Assistant Professor		Regular	Yes		No
2	Ms. Smitha Sunil	XXXXXXX34R	NA	M.Tech	A P J Abdul Kalam Technological University	VLSI & Embedded Systems	27/11/2024	1	Assistant Professor	Assistant Professor		Regular	Yes		No
3	Ms. Aleena Anthony	XXXXXXX41D	NA	M.Tech	A P J Abdul Kalam Technological University	VLSI & Embedded Systems	26/07/2025	0.4	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 Department1 No. of PG Programs in the Department1

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	61	62	62
UG1.C	62	62	64
UG1.D	62	64	62
UG1: Electronics & Communication Engineering	**185**	**188**	**188**
UG2.B	60	0	0
UG2.C	0	0	0
UG2.D	0	0	0
UG2: Electronics & Computer Engineering	**60**	**0**	**0**
PG1.A	9	9	9
PG1.B	9	9	9
PG1: VLSI & Embedded Systems	**18**	**18**	**18**
DS=Total no. of students in all UG and PG programs in the Department	203	206	206
AS=Total no. of students of all UG and PG programs in allied departments	60	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	**S1=** 263	**S2=** 206	**S3=** 206
DF=Total no. of faculty members in the Department	12	11	12
AF= Total no. of faculty members in the allied Departments	3	1	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	**F1=** 15	**F2=** 12	**F3=** 12
FF=The faculty members in F who have a 100% teaching load in the first-year courses	1	1	1
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 18.79**	**SFR2= 18.73**	**SFR3= 18.73**
Average SFR for 3 years	**SFR= 18.75**		

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 x [(10X + 4Y) / RF)]
2025-26(CAY)	2	13	13.00	13.85
2024-25(CAYm1)	3	9	10.00	16.50
2023-24(CAYm2)	3	9	10.00	16.50

C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	1.00	1.00	2.00	1.00	8.00	13.00
2024-25	1.00	1.00	2.00	2.00	6.00	9.00
2023-24	1.00	1.00	2.00	2.00	6.00	9.00
Average	RF1=1.00	AF1=1.00	RF2=2.00	AF2=1.67	RF2=6.67	AF2=10.33

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.

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. Sreekumar D Menon	Assistant General Manager	BSNL	Analog Communication, DSP Algorithms and Architecture	30.00
2	Dr. Sreekumar D Menon	Assistant General Manager	BSNL	Digital Communication, ANalog VLSI Design	25.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. Sreekumar D Menon	Assistant General Manager	BSNL	Analog Communication, DSP Algorithms and Architecture	28.00
2	Dr. Sreekumar D Menon	Assistant General Manager	BSNL	Digital Communication, ANalog VLSI Design	25.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. Sreekumar D Menon	Assistant General Manager	BSNL	DSP Algorithms and Architecture, Basics of Robotics	25.00
2	Dr. Sreekumar D Menon	Assistant General Manager	BSNL	Analog VLSI Design, Introduction to Industrial Automation	25.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	2	18	9
2	No. of peer reviewed conference papers published	8	0	0
3	No. of books/book chapters published	1	1	1

C7. Sponsored Research Project

Table No. C7.1: List of sponsored research 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
Ms. Smitha Sunil	Mr. Lijosh Mathews	YIP 7.0	Development of a Standardized Coir Fiber Softness Testing Device	YIP	1 year	0.25
						Amount received (Rs.):0.25

(CAYm2)

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: 0.25

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
Dr. Abraham C G	Mr. Sumesh Chandran & Mr. Ajeesh S	Product Development	Agro-Drone	Rovonize Systems Private Ltd.	1 Year	1.20
Dr. Abraham C G	Dr. Devika Sarath	Product Development	Network Solutions	Adfolks Accelerate Digital	1 Year	0.96
						Amount received (Rs.):2.16

(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. Abraham C G	Mr. Sumesh Chandran & Mr. Ajeesh S	Product Development	Agro-Drone	Rovonize Systems Private Ltd.	1 Year	1.20
Dr. Abraham C G	Dr. Devika Sarath	Product Development	Network Solutions	Adfolks Accelerate Digital	1 Year	0.96
						Amount received (Rs.):2.16

(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. Abraham C G	Mr. Sumesh Chandran & Mr. Ajeesh S	Product Development	Agro-Drone	Rovonize Systems Private Ltd.	1 Year	1.00
Dr. Abraham C G	Dr. Devika Sarath	Product Development	Network Solutions	Adfolks Accelerate Digital	1 Year	0.75
						Amount received (Rs.):1.75

Total amount (Lacs) received for the past 3 years: 6.07

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 Abraham C G	Publication-Patent	1	0.10	0.10	Publication
Dr Abraham C G	Publication-Patent	1	0.10	0.10	Publication
Dr Abraham C G	Publication-Patent	1	0.10	0.10	Publication
Dr Devika Sarath	Publication-Patent	1	0.10	0.10	Publication
Ms Mariya Stephen	Publication-Patent	1	0.10	0.10	Publication
Dr. Abraham C G	Publication	1	0.08	0.08	Publication
Dr. Deepthy Mary Alex	Publication	1	0.08	0.08	Publication
			Amount received (Rs.): 0.66		

(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
Dr. Deepthy Mary Alex	Publication	1	0.10	0.10	Publications
Dr. Abraham C G	Publication	1	0.08	0.10	Publication
Mr. Ajeesh S	Publication	1	0.08	0.08	Publication
Mr Sumesh Chandran	Publication	1	0.08	0.08	Publication
Mr.Lijosh Mathews	Publication	1	0.08	0.08	Publication
Dr. Abraham C G	Publication	1	0.08	0.08	Publication
Ms. Shiney M Abraham	Publication	1	0.08	0.08	Publication
Ms Mariya Stephen	Publication	1	0.08	0.08	Publication
Ms. Meera S Panicker	Publication	1	0.08	0.08	Publication
Mr. Jaleel P K	Publication	1	0.08	0.08	Publication
Ms. Neethan Elizabeth Abraham	Publication	1	0.08	0.08	Publication
Mr. Reneesh C Zacharia	Publication	1	0.08	0.08	Publication
Dr.Abraham.C.G	Publication-Patent	1	0.10	0.10	Publication-Patent
Ms.Jyothisree.K.R,	Publication-Patent	1	0.10	0.10	Publication-Patent
Dr.Deepthy Mary Alex	Publication-Patent	1	0.10	0.10	Publication-Patent
Ms.Neethan Elizabeth Abraham	Publication-Patent	1	0.10	0.10	Publication-Patent
Dr Devika Sarath	Publication-Patent	1	0.10	0.10	Publication-Patent
Mr. Ajeesh S	Publication-Patent	1	0.10	0.10	Publication-Patent
Ms. Shiney M Abraham	Publication-Patent	1	0.10	0.10	Publication-Patent
Mr.Lijosh Mathews	Publication-Patent	1	0.10	0.10	Publication-Patent
Ms.Jyothisree.K.R	publication	1	0.08	0.08	publication
Dr R Radeep Krishna	publication	1	0.08	0.08	publication
Ms.Jyothisree.K.R	publication	1	0.08	0.08	publication
Mr Ajeesh S	publication	1	0.08	0.08	publication
Dr.Abraham.C.G	publication	1	0.08	0.08	publication
Ms. Aparna Jose	publication	1	0.08	0.08	publication
			Amount received (Rs.): 2.26		

(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
Dr Radeep Krishna	Publication-Patent	1	0.10	0.10	Publication-Patent
Mr Sumesh Chandran	Publication	1	0.10	0.10	Publication
Ms.Jyothisree.K.R	Publication	1	0.03	0.03	Publication
Dr R Radeep Krishna	Publication	1	0.03	0.03	Publication
Ms.Jyothisree.K.R	Publication	1	0.03	0.03	Publication
Mr Derick Mathew	Publication	1	0.03	0.03	Publication
Dr.Abraham.C.G	Publication	1	0.03	0.03	Publication
Dr Devika Sarath	Publication	1	0.03	0.03	Publication
Mr Sumesh Chandran	Publication	1	0.03	0.03	Publication
Ms Mariya Stephen`	Publication	1	0.03	0.03	Publication
			Amount received (Rs.): 0.44		

Total amount (Lacs) received for the past 3 years : 3.36

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	Analog Circuits LAB	30	Analog IC Tester, Cathode Ray Oscilloscope, Function Generator, Power supply, Multimeter, Inductance Box	12	Mr. Anup M Varghese	Lab Instructor	ITI
2	Communication Lab	30	Digital storage oscilloscope, Function generator, Power supply, Microwave kit, OFC KIT, KLYSTRON, Analog Voltmeter, Ammeter, Multimeter	6	Mr. Gokul Krishnan B	Lab Instructor	Diploma in Electronics En
3	Microprocessor & Microcontroller Lab	30	8051 & 8086 kits, Computers, Interface cards, Embedded trainer kit	9	Mr. Joseph Sebastian	Lab Instructor	Diploma in Electronics En
4	Signal Processing Lab	30	Computers, TMS320C5X/TMS320C67XX, Printer	15	Mr. Joseph Sebastian	Lab Instructor	Diploma in Electronics En
5	Digital IC Lab	30	Digital trainer kit & respective ICs, IC Tester, Cathode Ray Oscilloscope, Power supply	22	Mr. Gokul Krishnan B	Lab Instructor	Diploma in Electronics En
6	Electronics Workshop	30	Power Supply, Function Generator, CRO, Soldering Irons, Multimeters, PCB design	22	Mr.Aswin Sureshkumar	Lab Instructor	Diploma in Electronics En
7	R & D Lab	30	Computers, Arduino Boards, NI ELVIS III, RTL STR dongle	24	Mr. Joseph Sebastian	Lab Instructor	Diploma in ELectronics
8	PG LAB	18	Computers, Spartan 3 System Board + Universal Trainer Kit, Arduino Boards, ESP 8266 IOT Module, Raspberry Pi	24	Mr. Jaya Mohan K M	Lab Instructor	ITI

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	ANALOG CIRCUITS LAB	•Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. •Wiring's are checked at regular intervals in order to avoid voltage fluctuations and to ensure electrical safety. •First aid box and fire extinguishers are kept in each laboratory. •Well trained technical supporting staff monitor the working of the labs at all times. •Damaged equipment's are identified and serviced as per the maintenance procedure. •Periodical calibration of the lab equipment's is done regularly. •The use of cell phones is prohibited. •Appropriate storage areas are available. •Fire Extinguishers are refilled periodically. The locations and operating procedures of all safety equipment including first aid kits and fire extinguishers are instructed to students. •All students should wear uniform and safety shoes. No sandals are allowed
2	COMMUNICATION LAB	•Trainer kits and work benches are serviced in regular intervals. •Maintenance of work benches and components are done at regularly. •Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. •First aid box and fire extinguishers are kept in each laboratory. •Well trained technical supporting staff monitor the labs at all times. •Damaged equipment's are identified and serviced at the earliest. •Periodical calibration of the lab equipment's is done regularly. •The use of cell phones is prohibited. •Appropriate storage areas are available. •Fire Extinguishers are refilled periodically. The locations and operating procedures of all safety equipment including first aid kits, and fire extinguishers are instructed to students. •All students should wear uniform and safety shoes. No sandals are allowed
3	MICROPROCESSOR/MICROCONTROLLER LAB	•Microprocessors and Micro-controller trainer kits are serviced at regular intervals •Peripheral Interfacing Devices are maintained periodically. •Fully and rightly loaded PC Systems with needed software are readily available for students' usage. •Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. •First aid box and fire extinguishers are kept in each laboratory. •Well trained technical supporting staff monitor the labs at all times. •Damaged equipment's are identified and serviced at the earliest. •Periodical calibration of the lab equipment's are regularly done. •The use of cell phones is prohibited. •Appropriate storage areas are available. •All students should wear uniform and safety shoes. No sandals are allowed
4	SIGNAL PROCESSING LAB, R & D Lab, PG LAB	•PC Systems with fully and rightly loaded needed software are readily available for students' usage •Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. •First aid box and fire extinguishers are kept in each laboratory. •Well trained technical supporting staff monitor the labs at all times. •Damaged equipment's are identified and serviced at the earliest. •Periodical calibration of the lab equipment's are regularly done. •The use of cell phones is prohibited. •Appropriate storage areas are available. •Fire Extinguishers are refilled periodically. The locations and operating procedures of all safety equipment including first aid kits, and fire extinguishers are instructed to students. •All students should wear uniform and safety shoes. No sandals are allowed
5	DIGITAL IC LAB	•Trainer ICs and Digital IC Trainer kits are checked and serviced at regular intervals. •Wiring's are checked at regular intervals in order to avoid voltage fluctuations. •Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. •First aid box and fire extinguishers are kept in each laboratory. •Well trained technical supporting staff monitor the labs at all times. •Damaged equipment's are identified and serviced at the earliest. •Periodical calibration of the lab equipment's are regularly done. •The use of cell phones is prohibited. •Appropriate storage areas are available. •All students should wear uniform and safety shoes. No sandals are allowed

6	ELECTRONICS WORKSHOP	•Wiring's are checked at regular intervals in order to avoid voltage fluctuations and to ensure electrical safety. •Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. •First aid box and fire extinguishers are kept in each laboratory. •Well trained technical supporting staff monitor the labs at all times. •Damaged equipment's are identified and serviced at the earliest. •Periodical calibration of the lab equipment's are regularly done. •The use of cell phones is prohibited. •Appropriate storage areas are available. •All students should wear uniform and safety shoes. No sandals are allowed

D3. Project Laboratory/Research Laboratory

PART E: First Year faculty and financial Resources

(Data to be filled in for the first year course faculty and budget allocation and utilization)

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) +(NS2*0.2))/(No. of required faculty (RF4)); Percentage=((NS1*0.8) +(NS2*0.2))/RF
2023-24(CAYm2)	480	24	19	12	73
2024-25(CAYm1)	600	30	16	14	52
2025-26(CAY)	600	30	20	13	62

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	17000000	732048	15500000	14744069	18500000	17458727	34000000	31408332
Library	1100000	212421	1050000	982798	850000	780065	2100000	1957421
Laboratory equipment	5200000	4425072	900000	838782	3400000	3220608	2900000	2674777
Teaching and non-teaching staff salary	101000000	73320637	100000000	95711864	97000000	91340001	87500000	83386655
Outreach Programs	200000	73224	195000	182746	300000	281968	165000	151926
R&D	2000000	606991	1900000	1797495	890000	821533	1500000	1395021
Training, Placement and Industry linkage	1400000	405140	1300000	1209500	2200000	2059449	2250000	2103067
SDGs	1300000	1104532	750000	701039	310000	293284	175000	162463
Entrepreneurship	20000	2000	1000	0	0	0	0	0
Others, specify	100780000	33548614	104404000	98067052	101500000	93326345	158490000	150212125
Total	**230000000**	**114430679**	**226000000**	**214235345**	**224950000**	**209581980**	**289080000**	**273451787**

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	700000	684400	150000	140000	450000	417366	81000	80340
Software	40000	29000	100000	26383	100000	80000	60000	61423
SDGs	170000	155000	150000	125000	50000	45000	50000	25000
Support for faculty development	200000	88000	100000	66000	230000	226000	100000	44000
R & D	116500	3500	170000	129000	190000	179000	498000	493000
Industrial Training, Industry expert, Internship	301000	82100	300000	315533	209000	222095	185000	126630
Miscellaneous Expenses	27450	10950	25000	30959	24007	23987	23987	30663
Total	**1554950**	**1052950**	**995000**	**832875**	**1253007**	**1193448**	**997987**	**861056**