

NATIONAL BOARD OF ACCREDITATION

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

Program Name : ELECTRONICS AND COMMUNICATION ENGINEERING	Discipline : Engineering & Technology
Level : Under Graduate	Tier : 1
Application No : 9625	Date of Submission : 29-01-2025

PART A- Profile of the Institute

A1.Name of the Institute : THIAGARAJAR COLLEGE OF ENGINEERING	
Year of Establishment : 1957/2008	Location of the Institute: Madurai
A2. Institute Address :THIAGARAJAR COLLEGE OF ENGINEERING MADURAI-625015	
City:MADURAI	State:Tamil Nadu
Pin Code:625015	Website:www.tce.edu
Email:PRINCIPAL@TCE.EDU	Phone No(with STD Code):0452-2482240
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Anna University, Chennai 600 025 Tamil Nadu	City: Chennai
State : Tamil Nadu	Pin Code: 600025
A4. Type of the Institution : Government Aided Institute	
A5. Ownership Status : Government Aided	

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

- No. of UG programs: **11**
- No. of PG programs: **10**

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	Architecture	UG	Architecture	1995	--	Architecture
2	Architecture	UG	Interior Design	2024	--	Architecture
3	Computer Application	PG	Master of Computer Application	1985	--	Computer Application
4	Engineering & Technology	UG	Civil Engineering	1957	--	Civil Engineering
5	Engineering & Technology	PG	Communication Systems	1995	--	Electronics and Communication Engineering
6	Engineering & Technology	UG	Computer Science and Business System	2020	--	Computer Science and Business System
7	Engineering & Technology	UG	Computer Science and Engineering	1984	--	Computer Science and Engineering
8	Engineering & Technology	PG	Computer Science and Engineering	2001	--	Computer Science and Engineering

9	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2024	--	Computer Science and Engineering
10	Engineering & Technology	PG	Construction Engineering & Management	2022	--	Civil Engineering
11	Engineering & Technology	UG	Electrical & Electronics Engineering	1957	--	Electrical and Electronics Engineering
12	Engineering & Technology	UG	Electronics & Communication Engineering	1978	--	Electronics and Communication Engineering
13	Engineering & Technology	PG	Engineering Design	2022	2023	Mechanical Engineering
14	Engineering & Technology	PG	Environmental Engineering	2007	2023	Civil Engineering
15	Engineering & Technology	PG	Industrial Engineering	1986	2022	Mechanical Engineering
16	Engineering & Technology	UG	Information Technology	1999	--	Information Technology
17	Engineering & Technology	PG	Infrastructure Engineering & Management	2011	2022	Civil Engineering
18	Engineering & Technology	UG	Mechanical Engineering	1957	--	Mechanical Engineering
19	Engineering & Technology	UG	Mechatronics Engineering	2014	--	Mechatronics Engineering
20	Engineering & Technology	PG	Power Systems	1972	2024	Electrical and Electronics Engineering
21	Engineering & Technology	PG	Structural Engineering	1972	--	Civil Engineering

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

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

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Civil Engineering	No	Civil Engineering	UG
Mechanical Engineering	Yes	Mechanical 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
Production Engineering and Engineering Design	Mechatronics 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:

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 ACCREDITE
1	Production Engineering and Engineering Design	Mechatronics Engineering	UG	2014 / --	60	No	NA	60	2014	Southern/1-3517261144/2018/EOA	Eligible but not applied	--	--	0

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

A. Name of the HoD :	B. MANIMEGALAI
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.

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.

$$\text{Average } [(ER1 + ER2 + ER3) / 3] = \equiv$$

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.

$$\text{Average SR of three batches } ((SR_1 + SR_2 + SR_3)/3):$$

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.

$$\text{Average API} [(AP1 + AP2 + AP3)/3] :$$

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.

$$\text{Average API } [(AP1 + AP2 + AP3)/3] :$$

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

$$\text{Average API } [(AP1 + AP2 + AP3)/3] :$$

B9. Placement, Higher Studies, and Entrepreneurship

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

$$\text{Average Placement Index } = (P_1 + P_2 + P_3)/3: \text{ Placement Index Points:}$$

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	S J Thiruvengadam	XXXXXXX70F	XXXXXXXXXXXXXXPhD	Madurai Kamaraj University	ECE	10/06/1996	28.7	Assistant Professor	Professor	02/09/2011	Regular	Yes		No
2	S.RAJARAM	XXXXXXX91N	XXXXXXXXXXXXXXPhD	Madurai Kamaraj University	ECE	03/06/1999	25.7	Assistant Professor	Professor	03/12/2012	Regular	Yes		No
3	S.Md.MANSOOR ROOMI	XXXXXXX35G	XXXXXXXXXXXXXXPhD	Madurai Kamaraj University	ECE	21/11/1997	27.2	Assistant Professor	Professor	07/08/2017	Regular	Yes		No
4	B. MANIMEGALAI	XXXXXXX60M	XXXXXXXXXXXXXXPhD	Anna University	ECE	15/12/1997	27.1	Assistant Professor	Professor	27/08/2015	Regular	Yes		Yes
5	R.A. ALAGURAJA	XXXXXXX07Q	XXXXXXXXXXXXXXPhD	Anna University	ECE	18/01/1999	26	Assistant Professor	Professor	05/12/2018	Regular	Yes		No
6	S. KANTHAMANI	XXXXXXX23N	XXXXXXXXXXXXXXPhD	Anna University	ECE	12/10/2000	24.3	Assistant Professor	Associate Professor	03/06/2013	Regular	Yes		No
7	K. HARIHARAN	XXXXXXX47D	XXXXXXXXXXXXXXPhD	Anna University	ECE	05/01/2001	24	Assistant Professor	Professor	01/03/2022	Regular	Yes		No
8	M.S.K. MANIKANDAN	XXXXXXX43G	XXXXXXXXXXXXXXPhD	Anna University	ECE	16/11/2001	23.2	Assistant Professor	Associate Professor	03/06/2013	Regular	Yes		No
9	B. SATHYA BAMA	XXXXXXX17K	XXXXXXXXXXXXXXPhD	Anna University	ECE	02/01/2003	22	Assistant Professor	Professor	01/03/2022	Regular	Yes		No
10	N.B. BALAMURUGAN	XXXXXXX04F	XXXXXXXXXXXXXXPhD	Anna University	ECE	12/07/2004	20.6	Assistant Professor	Professor	01/03/2022	Regular	Yes		No
11	M N Suresh	XXXXXXX48H	XXXXXXXXXXXXXXPhD	Anna University	ECE	04/06/2003	21.7	Assistant Professor	Associate Professor	01/03/2022	Regular	Yes		No
12	K.Rajeswari	XXXXXXX95J	XXXXXXXXXXXXXXPhD	Anna University	ECE	05/12/2003	21.1	Assistant Professor	Associate Professor	01/03/2022	Regular	Yes		No
13	V.Vinoth Thyagarajan	XXXXXXX80R	XXXXXXXXXXXXXXPhD	Anna University	ECE	13/07/2005	19.6	Assistant Professor	Associate Professor	01/09/2023	Regular	Yes		No

14	G.Ananthi	XXXXXXX50D	XXXXXXXXXXXXXXPhD	Anna University	ECE	06/07/2006	18.6	Assistant Professor	Associate Professor	01/09/2023	Regular	Yes		No
15	E.Murugavalli	XXXXXXX82Q	XXXXXXXXXXXXXXPhD	Anna University	ECE	09/08/2006	18.5	Assistant Professor	Assistant Professor		Regular	Yes		No
16	K.Vasudevan	XXXXXXX64M	XXXXXXXXXXXXXXPhD	Anna University	ECE	18/06/2007	17.7	Assistant Professor	Associate Professor	01/09/2023	Regular	Yes		No
17	D.Gracia Nirmala Rani	XXXXXXX21L	XXXXXXXXXXXXXXPhD	Anna University	ECE	21/09/2007	17.4	Assistant Professor	Associate Professor	01/03/2022	Regular	Yes		No
18	P.G.S.Velmurugan	XXXXXXX59J	XXXXXXXXXXXXXXPhD	Anna University	ECE	05/10/2007	17.3	Assistant Professor	Associate Professor	01/03/2022	Regular	Yes		No
19	V.R.Venkatasubramani	XXXXXXX34R	XXXXXXXXXXXXXXPhD	Anna University	ECE	03/06/2008	16.7	Assistant Professor	Associate Professor	01/09/2023	Regular	Yes		No
20	M.Senthilnathan	XXXXXXX48J	M.E/M.Tech	Madurai Kamaraj University	ECE	24/06/2013	11.7	Assistant Professor	Assistant Professor		Regular	Yes		No
21	N Ayyanar	XXXXXXX18L	XXXXXXXXXXXXXXPhD	NIT, Trichy	ECE	18/08/2021	3.5	Assistant Professor	Assistant Professor		Regular	Yes		No
22	G Prabhakar	XXXXXXX16A	XXXXXXXXXXXXXXPhD	Anna University	ECE	19/08/2021	3.5	Assistant Professor	Assistant Professor		Regular	Yes		No
23	M Senthilarasi	XXXXXXX37H	XXXXXXXXXXXXXXPhD	Anna University	ECE	27/08/2021	3.4	Assistant Professor	Assistant Professor		Regular	Yes		No
24	J Shanthi	XXXXXXX10B	XXXXXXXXXXXXXXPhD	Anna University	ECE	10/08/2022	2.5	Assistant Professor	Assistant Professor		Regular	Yes		No
25	K Iyshwarya Ratthi	XXXXXXX84P	M.E/M.Tech	Anna University	ECE	24/06/2024	0.7	Assistant Professor	Assistant Professor		Regular	Yes		No
26	G Krishnaveni	XXXXXXX67M	XXXXXXXXXXXXXXPhD	Anna University	ECE	04/07/2024	0.6	Assistant Professor	Assistant Professor		Regular	Yes		No
27	B Yogameena	XXXXXXX16J	XXXXXXXXXXXXXXPhD	Anna University	ECE	04/12/2002	21.9	Assistant Professor	Professor		Regular	No	19/09/2024	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	M Palaninatha Raja	XXXXXXX57A	NA	ME/M. Tech and PhD	Indian Institute of Technology	Qulaity Materials and Design	01/08/1997	27.6	Assistant Professor	Professor	02/09/2011	Regular	Yes		Yes
2	G Kumaraguruparan	XXXXXXX55B	NA	ME/M. Tech and PhD	Anna University	Thermal Power Engineering	15/11/2000	24.2	Assistant Professor	Professor	01/03/2022	Regular	Yes		No

3	G Kanagaraj	XXXXXXX16L	NA	ME/M. Tech and PhD	Anna University	Engineering Design	14/12/2000	24.1	Assistant Professor	Professor	01/03/2022	Regular	Yes		No
4	S Julius Fusic	XXXXXXX88G	NA	ME/M. Tech and PhD	Anna University	Autonomous Systems	14/07/2014	10.6	Assistant Professor	Assistant Professor		Regular	Yes		No
5	S Parthasarathi	XXXXXXX69N	NA	M.E/M.Tech	Anna University	Embedded IoT	23/12/2014	10.1	Assistant Professor	Assistant Professor		Regular	Yes		No
6	H Ramesh	XXXXXXX79L	NA	ME/M. Tech and PhD	Anna University	Industrial Drawings	06/04/2015	9.9	Assistant Professor	Assistant Professor		Regular	Yes		No
7	M A Ganesh	XXXXXXX96R	NA	M.E/M.Tech	Velloire Institute of Technology	Mechtrronics	22/06/2015	9.7	Assistant Professor	Assistant Professor		Regular	Yes		No
8	S A R Sheik Masthan	XXXXXXX58D	NA	M.E/M.Tech	Sathyabama University	Soft computing	06/06/2016	8.7	Assistant Professor	Assistant Professor		Regular	Yes		No
9	M M Devarajan	XXXXXXX47A	NA	M.E/M.Tech	Anna University	Electronic cooling	09/09/2015	9.4	Assistant Professor	Assistant Professor		Regular	Yes		No
10	S Rajkumar	XXXXXXX49H	NA	M.E/M.Tech	Anna University	Mechtrronics	05/07/2017	7.6	Assistant Professor	Assistant Professor		Regular	Yes		No
11	M Rajalakshmi	XXXXXXX88E	NA	ME/M. Tech and PhD	Anna University	Mechtrronics	07/07/2023	1.6	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(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
UG1.B	198	132	132
UG1.C	132	132	132
UG1.D	132	132	132
UG1: Electronics & Communication Engineering	462	396	396

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
UG2.B	66	66	66
UG2.C	66	66	66
UG2.D	66	66	66
UG2: Mechatronics Engineering	198	198	198
PG1.A	18	18	25
PG1.B	18	25	25
PG1: Communication Systems	36	43	50
DS=Total no. of students in all UG and PG programs in the Department	498	439	446
AS=Total no. of students of all UG and PG programs in allied departments	198	198	198
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 696	S2= 637	S3= 644
DF=Total no. of faculty members in the Department	26	24	24
AF= Total no. of faculty members in the allied Departments	11	11	10
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 37	F2= 35	F3= 34
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= 18.81	SFR2= 18.20	SFR3= 18.94
Average SFR for 3 years	SFR= 18.65		

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.

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.

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)

(CAYm2)

(CAYm3)

C6. Academic Research

Table No. C6.1: Faculty publication details.

C7. Sponsored Research Project

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

(CAYm1)

(CAYm2)

(CAYm3)

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

Note*:

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

C8. Consultancy Work

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

(CAYm1)

(CAYm2)

(CAYm3)

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

Note*:

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

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

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

(CAYm1)

(CAYm2)

(CAYm3)

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

PART D: Laboratory Infrastructure in the Department
(Data to be filled in for the Department)

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

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

D2. Safety Measures in Laboratories

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

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PART E: First Year faculty and financial Resources
(Data to be filled in for the first year course faculty and budget allocation and utilization)

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

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

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

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

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