

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 : 1 |
| Application No : 11692 | Date of Submission : 17-03-2026 |

PART A- Profile of the Institute

| | |
|---|--------------------------------------|
| A1. Name of the Institute: THE NATIONAL INSTITUTE OF ENGG. | |
| Year of Establishment : 1946,1994 | Location of the Institute: MYSURU |
| A2. Institute Address: MANANDAVADI ROAD | |
| City:Mysore | State:Karnataka |
| Pin Code:570008 | Website:www.nie.ac.in |
| Email:PRINCIPAL@NIE.AC.IN | Phone No(with STD Code):0821-2481220 |
| A3. Name and Address of the Affiliating University (if any): | |
| Name of the University : NIL | City: Belgaum |
| State : Karnataka | Pin Code: 590018 |
| A4. Type of the Institution: Autonomous CAY(2009-10) | |
| A5. Ownership Status: Government Aided | |

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

- No. of UG programs: 8
- No. of PG programs: 11

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 | 1997 | -- | Computer Application |
| 2 | Engineering & Technology | UG | Civil Engineering | 1950 | -- | Civil Engineering |
| 3 | Engineering & Technology | PG | Computer Networking & Engineering | 2012 | -- | Computer Science and Engineering |
| 4 | Engineering & Technology | UG | Computer Science and Engineering | 1983 | -- | Computer Science and Engineering |
| 5 | Engineering & Technology | UG | Computer Science and Engineering (Artificial Intelligence & Machine Learning) | 2022 | -- | Computer Science and Engineering |
| 6 | Engineering & Technology | UG | Electrical and Electronics Engineering | 1958 | -- | Electrical and Electronics Engineering |
| 7 | Engineering & Technology | UG | Electronics & Communication Engineering | 1971 | -- | Electronics and Communication Engineering |

| | | | | | | |
|----|--------------------------|----|---|------|------|---|
| 8 | Engineering & Technology | PG | Embedded System and Computing | 2025 | -- | Electronics and Communication Engineering |
| 9 | Engineering & Technology | PG | Hydraulics Engineering | 1971 | -- | Civil Engineering |
| 10 | Engineering & Technology | UG | Industrial & Production Engineering | 1981 | 2022 | Mechanical Engineering |
| 11 | Engineering & Technology | PG | Industrial Automation & Robotics | 2011 | -- | Mechanical Engineering |
| 12 | Engineering & Technology | UG | Information Science & Engineering | 1999 | 2025 | Computer Science and Engineering |
| 13 | Engineering & Technology | PG | Information Technology | 2002 | -- | Computer Science and Engineering |
| 14 | Engineering & Technology | PG | Machine Design | 2014 | 2025 | Mechanical Engineering |
| 15 | Engineering & Technology | UG | Mechanical Engineering | 1958 | -- | Mechanical Engineering |
| 16 | Engineering & Technology | PG | Networking & Internet Engineering | 2018 | 2025 | Electronics and Communication Engineering |
| 17 | Engineering & Technology | PG | Power Systems & Power Electronics | 2025 | -- | Electrical and Electronics Engineering |
| 18 | Engineering & Technology | PG | Production Engineering & Systems Technology | 1987 | 2023 | Mechanical Engineering |
| 19 | Engineering & Technology | PG | Structural Engineering | 2012 | -- | 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 |
| Electronics and Communication Engineering | No | Electronics & Communication 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)

| |
|-----------|
| No Record |
|-----------|

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 APPROVAL DETAILS | ACCREDITATION STATUS | FROM | TO | NO. OF TIMES PROGRAM ACCREDITED | PROGR DURAT |
|--------|---|-----------------------|--------------------------------|-------------------|-----------------------------------|---------------------------|----------------|------------------------|--|---|------|------|---------------------------------|-------------|
| 1 | Electronics & Communication Engineering | UG | 1971 / -- | 120 | Yes | 2024 | 180 | 2024 | South-West/1-43658685062/2024/EOA | Granted accreditation for 3 years for the period (specify period) | 2023 | 2026 | 3 | 4 |

| Sanctioned Intake for Last Five Years for the Networking & Internet Engineering | |
|---|-------------------|
| Academic Year | Sanctioned Intake |
| 2025-26 | 180 |
| 2024-25 | 180 |
| 2023-24 | 120 |
| 2022-23 | 120 |
| 2021-22 | 120 |
| 2020-21 | 120 |

List of the Allied Departments/Cluster and Programs:

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

| | |
|---------------------------|-------------------------|
| A. Name of the HoD : | Dr. Rajalekshmi Kishore |
| 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) | 180 | 180 | 120 | 120 | 120 | 120 | 120 |
| N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program | 171 | 170 | 118 | 122 | 116 | 117 | 118 |
| N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats | 0 | 30 | 15 | 13 | 18 | 12 | 12 |
| 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 | 16 | 11 | 11 | 7 | 10 | 6 | 7 |
| Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points. | 187 | 211 | 144 | 142 | 144 | 135 | 137 |

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) | 180 | 171 | 16 | 103.89 |
| 2024-25 (CAYm1) | 180 | 170 | 11 | 100.56 |
| 2023-24 (CAYm2) | 120 | 118 | 11 | 107.50 |

Average $[(ER1 + ER2 + ER3) / 3] = 103.98 \approx 100$

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 | (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). | 144.00 | 135.00 | 137.00 |
| B=No. of students who graduated from the program in the stipulated course duration | 133.00 | 119.00 | 101.00 |
| Success Rate (SR)= (B/A) * 100 | 92.36 | 88.15 | 73.72 |

Average SR of three batches $((SR_1 + SR_2 + SR_3)/3)$: 84.74

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) |
|--|------------------|------------------|-------------------|
| 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) | 7.25 | 7.73 | 7.72 |
| Y=Total no. of successful students | 174.00 | 126.00 | 124.00 |
| Z=Total no. of students appeared in the examination | 181.00 | 129.00 | 129.00 |
| API $[X*(Y/Z)]$ | 6.97 | 7.55 | 7.42 |

Average API $[(AP1+AP2+AP3)/3]$: 7.31

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 2nd year/10) | 7.03 | 7.21 | 7.28 |
| Y=Total no. of successful students | 141.00 | 136.00 | 139.00 |
| Z=Total no. of students appeared in the examination | 141.00 | 137.00 | 143.00 |
| API $[X * (Y/Z)]$ | 7.03 | 7.16 | 7.08 |

Average API $[(AP1 + AP2 + AP3)/3]$: 7.09

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) | 8.02 | 7.59 | 7.47 |
| Y=Total no. of successful students | 136.00 | 139.00 | 129.00 |
| Z=Total no. of students appeared in the examination | 136.00 | 139.00 | 131.00 |
| API [X*(Y/Z)]: | 8.02 | 7.59 | 7.36 |

Average API [(AP1 + AP2 + AP3)/3] : 7.66

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 | 139.00 | 132.00 | 135.00 |
| X=No. of students placed | 113.00 | 106.00 | 126.00 |
| Y=No. of students admitted to higher studies | 1.00 | 1.00 | 0.00 |
| Z= No. of students taking up entrepreneurship | 1.00 | 0.00 | 0.00 |
| Placement Index(P) = (((X + Y + Z)/FS) * 100): | 82.73 | 81.06 | 93.33 |

Average Placement Index = (P_1 + P_2 + P_3)/3: 85.71 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. S Parameshwara | XXXXXXXX35B | Ph.D | University of Mysore | Nano Electronics | 15/09/2004 | 21.6 | Lecturer | Professor | 19/02/2020 | Regular | Yes | | No |
| 2 | Dr. Rohini Nagapadma | XXXXXXXX36E | Ph.D | Visvesvaraya Technological University | Digital Image Processing | 10/02/1988 | 37.9 | Lecturer | Professor | 25/01/2010 | Regular | No | 29/11/2025 | No |
| 3 | Dr. C Anajanappa | XXXXXXXX93A | Ph.D | University of Mysore | Medical Image Processing | 02/09/2004 | 21.6 | Lecturer | Professor | 19/02/2020 | Regular | Yes | | No |
| 4 | Dr. Pradeepa H | XXXXXXXX36F | Ph.D | Visvesvaraya Technological University | Power Systems | 10/09/2004 | 21.6 | Lecturer | Professor | 19/02/2020 | Regular | Yes | | No |
| 5 | Dr. Chidanandappa R | XXXXXXXX11B | Ph.D | Visvesvaraya Technological University | Power Systems | 02/09/2004 | 21.6 | Lecturer | Professor | 19/02/2020 | Regular | Yes | | No |

| | | | | | | | | | | | | | | |
|----|-------------------------|-------------|--------|---|---|------------|------|---------------------|---------------------|------------|---------|-----|--|-----|
| 6 | Dr. Anand Srivatsa | XXXXXXXX92N | Ph.D | Visvesvaraya Technological University | Software Engineering | 27/08/2015 | 10.6 | Associate Professor | Associate Professor | 27/08/2015 | Regular | Yes | | No |
| 7 | Dr. Shashidhara H R | XXXXXXXX96B | Ph.D | Visvesvaraya Technological University | VLSI Design | 09/11/2018 | 7.4 | Associate Professor | Associate Professor | 09/11/2018 | Regular | Yes | | No |
| 8 | Dr. Rajalekshmi Kishore | XXXXXXXX06M | Ph.D | BITS Pilani, K K Birla Goa | Communication Systems | 01/09/2020 | 5.6 | Associate Professor | Associate Professor | 01/09/2020 | Regular | Yes | | Yes |
| 9 | Dr. Ashok K | XXXXXXXX43Q | Ph.D | APJ Abdul Kalam Technological University, Kerala | Signal Processing | 16/06/2025 | 0.8 | Associate Professor | Associate Professor | 16/06/2025 | Regular | Yes | | No |
| 10 | M K Vishwanath | XXXXXXXX33F | M.Tech | Visvesvaraya Technological University | Biomedical instrumentation | 28/02/2005 | 21 | Lecturer | Assistant Professor | | Regular | Yes | | No |
| 11 | Dr. Nagaraju C | XXXXXXXX29E | Ph.D | University of Mysore | Medical Image Processing | 01/07/2016 | 9.8 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 12 | Puneeth S | XXXXXXXX99P | M.Tech | Visvesvaraya Technological University | VLSI Design and Embedded Systems | 19/07/2017 | 8.7 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 13 | Dr. Kavitha S S | XXXXXXXX24L | Ph.D | Visvesvaraya Technological University | VLSI Design and Embedded Systems | 16/08/2012 | 13.6 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 14 | Lokesha H R | XXXXXXXX31L | M.Tech | Davangare University | Digital Communication and Networking | 15/07/2017 | 8.7 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 15 | Dr. Remya Jayachandran | XXXXXXXX97M | Ph.D | National Institute of Technology Calicut | VLSI Design and Analog Circuits | 25/02/2019 | 7 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 16 | Dr. Sharmila B S | XXXXXXXX59A | Ph.D | Visvesvaraya Technological University | VLSI Design and Embedded Systems | 25/07/2016 | 9.7 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 17 | Deepthi M S | XXXXXXXX51J | M.Tech | Visvesvaraya Technological University | Industrial Electronics | 18/02/2019 | 7 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 18 | Dr. Vijay B T | XXXXXXXX07K | Ph.D | National Institute of Technology, Tiruchirappalli | Wireless Networks | 07/02/2019 | 7.1 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 19 | Shruthi R | XXXXXXXX47H | M.Tech | Visvesvaraya Technological University. | Digital Electronics and Communication Systems | 31/07/2018 | 7.7 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |

| | | | | | | | | | | | | | | |
|----|-----------------------|-------------|--------|--|---|------------|------|---------------------|---------------------|------------|----------------------|-----|------------|----|
| 20 | Dr. Yajunath Kaiyath | XXXXXXXX61L | Ph.D | National Institute of Technology Karnataka, Surathkal | Analog VLSI | 24/12/2020 | 5.2 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 21 | Dr. Raghu J | XXXXXXXX80A | Ph.D | National Institute of Technology Karnataka, Surathkal | Radar Target Tracking | 19/12/2020 | 5.2 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 22 | Ashwini D S | XXXXXXXX59C | M.Tech | Visvesvaraya Technological University. | VLSI and Embedded System Design | 01/07/2019 | 6.8 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 23 | Nitesh K A | XXXXXXXX40B | M.Tech | Visvesvaraya Technological University. | Digital Electronics and Communication Systems | 26/08/2022 | 3.6 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 24 | Dr. Sujeet Kumar Rai | XXXXXXXX48M | Ph.D | National Tsing Hua University, China | Sensor and Instrumentation | 24/07/2025 | 0.7 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 25 | Vismitha V | XXXXXXXX63G | M.Tech | Visvesvaraya Technological University. | Wireless Sensor Networks | 06/10/2025 | 0.5 | Assistant Professor | Assistant Professor | | Contractual Fulltime | Yes | | No |
| 26 | Kumudha H B | XXXXXXXX05Q | M.Tech | Visvesvaraya Technological University. | Artificial intelligence | 17/11/2025 | 0.3 | Assistant Professor | Assistant Professor | | Contractual Fulltime | Yes | | No |
| 27 | Dr. Narasimha Kaulgud | XXXXXXXX97K | Ph.D | International Institute of Information technology, Bengaluru | Image Processing | 02/02/2015 | 10.6 | Professor | Professor | 02/02/2015 | Contractual Fulltime | No | 23/08/2025 | No |
| 28 | Dr. Saila Hegde | XXXXXXXX13F | Ph.D | Visvesvaraya Technological University. | Digital Image Processing | 24/07/2023 | 1.8 | Associate Professor | Associate Professor | 24/07/2023 | Contractual Fulltime | No | 10/04/2025 | No |
| 29 | Pawan Bharadwaj | XXXXXXXX67L | M.Tech | Visvesvaraya Technological University. | Digital iamge Processing | 24/07/2023 | 1.8 | Assistant Professor | Assistant Professor | | Contractual Fulltime | No | 10/04/2025 | No |
| 30 | Shruthi K S | XXXXXXXX39R | M.Tech | Visvesvaraya Technological University. | Digital Electronics | 24/07/2023 | 1.8 | Assistant Professor | Assistant Professor | | Contractual Fulltime | No | 10/04/2025 | No |
| 31 | Pushpalatha H P | XXXXXXXX46A | M.Tech | Visvesvaraya Technological University. | VLSI Design and Embedded Systems | 09/09/2024 | 0.7 | Assistant Professor | Assistant Professor | | Contractual Fulltime | No | 10/04/2025 | No |
| 32 | Sobia Naz | XXXXXXXX51J | M.Tech | Visvesvaraya Technological University. | Bio medical Instrumentation | 04/01/2021 | 4.6 | Assistant Professor | Assistant Professor | | Contractual Fulltime | No | 31/07/2025 | No |

| | | | | | | | | | | | | | | |
|----|-----------------|-----------|--------|--|------------------------------|------------|-----|---------------------|---------------------|--|----------------------|----|------------|----|
| 33 | Lavanya M S | XXXXXX24B | M.Tech | Visvesvaraya Technological University. | Industrial Electronics | 25/09/2021 | 3.3 | Assistant Professor | Assistant Professor | | Contractual Fulltime | No | 06/01/2025 | No |
| 34 | Bhavana K | XXXXXX66G | M.Tech | Visvesvaraya Technological University. | Networking and Internet | 09/11/2021 | 2.8 | Assistant Professor | Assistant Professor | | Contractual Fulltime | No | 31/07/2024 | No |
| 35 | Shilpashree M S | XXXXXX34B | M.Tech | Visvesvaraya Technological University. | Signal Processing Systems | 31/12/2021 | 2.7 | Assistant Professor | Assistant Professor | | Contractual Fulltime | No | 31/07/2024 | No |
| 36 | Harish S V | XXXXXX72K | M.Tech | Visvesvaraya Technological University | Wireless Sensor Networks | 12/03/2024 | 1 | Assistant Professor | Assistant Professor | | Contractual Fulltime | No | 10/04/2025 | No |
| 37 | Prasad S N | XXXXXX71R | M.Tech | Visvesvaraya Technological University. | Computer Network Engineering | 09/09/2024 | 0.7 | Assistant Professor | Assistant Professor | | Contractual Fulltime | No | 10/04/2025 | No |

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

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 Department2

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

| Description | CAY(2025-26) | CAYm1 (2024-25) | CAYm2 (2023-24) |
|---|--------------|-----------------|-----------------|
| UG1.B | 198 | 132 | 132 |
| UG1.C | 132 | 132 | 132 |
| UG1.D | 132 | 132 | 132 |
| UG1: Electronics & Communication Engineering | 462 | 396 | 396 |
| PG1.A | 12 | 0 | 0 |
| PG1.B | 0 | 0 | 0 |
| PG1: Embedded System and Computing | 12 | 0 | 0 |

| Description | CAY(2025-26) | CAYm1 (2024-25) | CAYm2 (2023-24) |
|---|--------------------|--------------------|--------------------|
| PG2.A | 0 | 12 | 12 |
| PG2.B | 12 | 12 | 18 |
| PG2: Networking & Internet Engineering | 12 | 24 | 30 |
| DS=Total no. of students in all UG and PG programs in the Department | 486 | 420 | 426 |
| AS=Total no. of students of all UG and PG programs in allied departments | 0 | 0 | 0 |
| S=Total no. of students in the Department (DS) and allied departments (AS) | S1= 486 | S2= 420 | S3= 426 |
| DF=Total no. of faculty members in the Department | 23 | 24 | 30 |
| AF= Total no. of faculty members in the allied Departments | 0 | 0 | 0 |
| F=Total no. of faculty members in the Department (DF) and allied Departments (AF) | F1= 23 | F2= 24 | F3= 30 |
| FF=The faculty members in F who have a 100% teaching load in the first-year courses | 0 | 0 | 1 |
| Student Faculty Ratio (SFR)=S/(F-FF) | SFR1= 21.13 | SFR2= 17.50 | SFR3= 14.69 |
| Average SFR for 3 years | SFR= 17.77 | | |

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 = $2.5 \times [(10X + 4Y) / RF]$ |
|----------------|----|----|-------|-------------------------------------|
| 2025-26(CAY) | 16 | 7 | 24.00 | 19.58 |
| 2024-25(CAYm1) | 15 | 9 | 20.00 | 23.25 |
| 2023-24(CAYm2) | 14 | 16 | 21.00 | 24.29 |

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 |
| 2025-26 | 2.00 | 4.00 | 5.00 | 4.00 | 16.00 | 15.00 |
| 2024-25 | 2.00 | 5.00 | 4.00 | 2.00 | 14.00 | 15.00 |

| | | | | | | |
|---------|----------|----------|----------|----------|-----------|-----------|
| 2023-24 | 2.00 | 5.00 | 4.00 | 2.00 | 14.00 | 15.00 |
| Average | RF1=2.00 | AF1=4.67 | RF2=4.33 | AF2=2.67 | RF2=14.67 | AF2=15.00 |

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. Rajat Duggal | Specialist R&D SBTS | Nokia Networks | BEC713G: 5G Wireless Systems and Industry Applications | 60.00 |

(CAYm2)

(CAYm3)

| S.No | Name of the Person | Designation | Organization | Name of the Course | No. of hours handled |
|------|--------------------------|--|-----------------------------|----------------------------|----------------------|
| 1 | Mr. Sri Ranganatha Sagar | Senior Layout Engineer | Intel | EC7I04: VLSI Layout Design | 40.00 |
| 2 | Mr. Sumukha N D | Cloud Native Developer, Net Cloud Specialist | DanskeIT Services,Bangalore | EC7I03: DOCKER | 40.00 |

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 | 15 | 19 | 9 |
| 2 | No. of peer reviewed conference papers published | 20 | 14 | 20 |
| 3 | No. of books/book chapters published | 1 | 0 | 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 |
|-------------------------|---------------------------------------|--|--|---|-------------------------|--------------------------------------|
| Dr. Sharmila B S | Dr. Rohini Nagapadma, Dr. Kavitha S S | Electronics and Communication Engineering | Deep Learning Techniques for Detecting and Mitigating Threats in 6G Technologies | Telecom Technology Development Fund, Department of Telecommunications | 3 years | 2000000.00 |
| Dr. Rajalekshmi Kishore | Lavanya M S | Electronics and Communication Engineering | Rescue Watch: UAV -Enabled IoT Sensor Network with Intelligent Reflecting Surfaces for Disaster Response | TIH Foundation for IoT & IoE | 4 years | 2522240.00 |
| | | | | | | Amount received (Rs.):4522240.00 |

(CAYm2)

(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. Rajalekshmi Kishore | - | ECE | Energy Efficiency Optimization using Machine Learning in Intelligent Reflecting Surfaces (IRS) aided Unmanned Aerial Vehicle (UAV) for 6G Wireless Communication Networks. | Teachers Associateship For Research Excellence (TARE) under SCIENCE& ENGINEERING RESEARCHBOARD(SERB) | 3 | 1830000.00 |
| | | | | | | Amount received (Rs.):1830000.00 |

Total Amount (Lacs) Received for the Past 3 Years: 6352240.00

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. Sharmila B S | Dr. Kavitha S S Dr. Nandini B M Dr. Vatsala B R Mr. Lokesh H R | | Proactive Detection and Mitigation Strategies for AI and MI-based Cyber Attacks in 5G O-Ran Architecture. | Maharani's Arts College for Women | 1 year | 1200000.00 |
| | | | | | | Amount received (Rs.):1200000.00 |

(CAYm2)

(CAYm3)

Total amount (Lacs) received for the past 3 years: 1200000.00

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 |
|---------------------|---|-------------------------|--------------------------------------|---|---|
| Anand Srivatsa | Follow-Me-Robot | 1 year | 0.40 | 0.00 | Accepted for Conference https://drive.google.com/file/d/1AhKBtLiKEzvlfR9_6ZMBzEUNu9s0Z8sh/view?usp=drive_link |
| Anand Srivatsa | Design & Validation of model predictive control (MPC) based flight controller using STM32 | 1 year | 0.20 | 0.00 | Accepted for Conference https://drive.google.com/file/d/1E47UZEYHW84yeZ-chRo43jDDZtHdFD2X/view?usp=drive_link |
| Dr. Shashidhara H R | Autonomous Underground Swarm Robot | 1 year | 0.75 | 0.75 | https://drive.google.com/drive/u/0/folders/1S2a4wj8xz1pT8FTS9bFV3AHQACNfjPNe |
| | | | Amount received (Rs.): 1.35 | | |

(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 |
|--------------------|---|-------------------------|--------------------------------------|---|--|
| Remya Jayachandran | Development of an Instrument for measuring the quality parameters of various oils | 1 year | 0.14 | 0.00 | Published Conference paper: https://ieeexplore.ieee.org/document/10111864/ |
| | | | Amount received (Rs.): 0.14 | | |

(CAYm3)

Total amount (Lacs) received for the past 3 years : 1.49

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 | Programming Lab | 2 | Intel Core i5 computing systems Ubuntu 20.04 LTS Netsim Academic v11.0 NS2 | Python Lab: 1: | Chandrashekar P | Assistant Instructor | Diploma in E&C Engg. |
| 2 | Basic Electronics Lab | 2 | CRO Multimeters Signal generators and probes Regulated DC Power Supply IC Trainer Kits | 12hrs/week | Loksha C | Assistant Instructor | Diploma in E&C Engg. |
| 3 | Analog Electronics Circuits Lab | 2 | Intel Core i5 computing systems DSO's Regulated Power Supply Function Generators CRO's Multi Output DC Power Supply IC Trainer Kits | 1. Analog Elect | Mohammed Imran Khan | Instructor | Diploma in E&C Engg. |

| | | | | | | | |
|---|------------------------------------|---|--|-----------------|-----------------|----------------------|---------------------------|
| 4 | VLSI Lab | 2 | Intel Core i7 computing systems Vivado Software Artrix 7 Nexus Boards Cadence tools for Analog Design | 1.Verilog HDL I | Phaneesh K S | Foreman | M Sc. IT |
| 5 | Advanced Signal Processing Lab | 2 | Intel Core i7 computing systems Ubuntu 20.04 LTS Cadence tools for Digital Design Vivado software | Hardware Desi | Mr. Sumukha Y S | Assistant Instructor | Diploma in E&C Engg. |
| 6 | Microprocessor/Microcontroller Lab | 2 | Intel Core i7 computing systems Keil Microvision 5.36v ARM Cortex M3 based LPC1768 Development Kits and its Hardware Interface ONY Microvision IDE | 1.ARM Lab 18I | Prabhu H S | Mechanic | ITI |
| 7 | Digital Signal Processing Lab | 2 | Intel Core i7 computing systems MATLAB R2016a TI 6748 Development Kits DipTrace - Schematic and PCB design Software | 1.DSP Lab 16I | Ambika B R | Assistant Instructor | Diploma in E&C Engg. |
| 8 | Internet of Things Lab | 2 | Intel Core i7 computing systems Ubuntu 20.04 LTS DEV C++ Software Sun Founder 37 modules sensor kits for Raspberry Pi Intel Labs 570v Development Kit Intel® | 1. Embedded S | Mr. Sumukha Y S | Assistant Instructor | Diploma in E&C Engg. |
| 9 | Communication lab | 2 | Intel Core i7 computing systems MATLAB R2016a DSO Signal Generators CRO Multi Output DC Power Supply Analog and Digital Communication Kits Spectrum | 1. Communicat | Loksha C | Assistant Instructor | BE in Instrumentation Tec |

D2. Safety Measures in Laboratories

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

| Sr. No | Laboratory Name | Safety Measures |
|--------|--|--|
| 1 | ADVANCED SIGNAL PROCESSING LAB / TEXAS INSTRUMENTS INNOVATION LABORATORY | Fire extinguisher in front of lab, first aid box. Safe electrical loading of systems, proper cable management, and protection against overheating are ensured. Licensed software and secure system configurations help maintain safe and reliable operation. |
| 2 | INTERNET OF THINGS LAB | Fire extinguisher in front of lab, first aid box. Safe electrical loading of systems, proper cable management, and protection against overheating are ensured. Licensed software and secure system configurations help maintain safe and reliable operation. |
| 3 | COMMUNICATION LAB | Fire extinguisher in front of lab, first aid box. Care is taken while handling signal generators, CROs/DSOs, and RF equipment to prevent exposure to unsafe signal levels. |
| 4 | ADVANCED COMMUNICATION LAB | Fire extinguisher in front of lab, first aid box. Proper ventilation is maintained to reduce exposure to fumes. Students are trained in the safe handling of soldering irons, cutters, and sharp tools. |
| 5 | DIGITAL SIGNAL PROCESSING LAB | Fire extinguisher in front of lab, first aid box. Care is taken while handling signal generators, CROs/DSOs, and RF equipment to prevent exposure to unsafe signal levels. |
| 6 | PROJECT ROOM | Fire extinguisher in front of lab, first aid box. Safe electrical loading of systems, proper cable management, and protection against overheating are ensured. Licensed software and secure system configurations help maintain safe and reliable operation. |

| | | |
|----|---|--|
| 7 | RESEARCH AND DEVELOPMENT LAB | Fire extinguisher in front of lab, first aid box. Safe electrical loading of systems, proper cable management, and protection against overheating are ensured. Licensed software and secure system configurations help maintain safe and reliable operation. |
| 8 | DIGITAL ELECTRONIC CIRCUITS LAB | Fire extinguisher in front of lab, first aid box. Proper ventilation is maintained to reduce exposure to fumes. Students are trained in the safe handling of soldering irons, cutters, and sharp tools. |
| 9 | MICROPROCESSOR LAB | Fire extinguisher in front of lab, first aid box. Safe electrical loading of systems, proper cable management, and protection against overheating are ensured. Licensed software and secure system configurations help maintain safe and reliable operation. |
| 10 | REAL-TIME OPERATING SYSTEMS LAB | Fire extinguisher in front of lab, first aid box. Safe electrical loading of systems, proper cable management, and protection against overheating are ensured. Licensed software and secure system configurations help maintain safe and reliable operation. |
| 11 | VERY LARGE SCALE INTEGRATION LAB | Fire extinguisher in front of lab, first aid box, Electrostatic Discharge (ESD) precautions are followed to protect sensitive electronic devices. Anti-static mats and grounding practices are used where required. |
| 12 | PROGRAMMING LAB | Fire extinguisher in front of lab, first aid box. Safe electrical loading of systems, proper cable management, and protection against overheating are ensured. Licensed software and secure system configurations help maintain safe and reliable operation. |
| 13 | ANALOG ELECTRONIC CIRCUITS LAB / LINEAR INTEGRATED CIRCUITS LAB | Fire extinguisher in front of lab, first aid box. Proper ventilation is maintained to reduce exposure to fumes. Students are trained in the safe handling of soldering irons, cutters, and sharp tools. |
| 14 | EC SERVER ROOM | Fire extinguisher in front of lab, first aid box |

D3. Project Laboratory/Research Laboratory

The ECE department has established dedicated project laboratories, research laboratories, and a Centre of Excellence to promote project-based learning, research activities, and industry-relevant skills, thereby enhancing the quality of learning and outcomes.

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

| S.N. | Name of the Laboratory | Availability | Utilization | Relevance to Pos/PSOs |
|------|------------------------------|---|---|---------------------------|
| 1. | ECE Project Room | 1. Prototyping & Assembly Tools - Breadboards, Soldering Stations, Jumper Wires and Connectors, Digital Multimeter. 2. Development & Processing Kits – Microcontroller kits (8051, UNO, ESP32), Basic Sensor/Actuator kit 3. Computing & Programming Support – Computers, Proteus, Multisim, Arduino ide, tinkercad | Utilized by students for Mini Projects, Major Projects, interdisciplinary projects, prototype development, Proof-of-concept models, and technical competitions. | PO3,PO4,PO5,PO9,PO10,PO11 |
| 2. | Research and Development Lab | Continuous research in the thrust areas such as Embedded Systems, VLSI Design, Communication Systems, Signal Processing, and IoT. This lab are equipped with domain-specific software tools (MATLAB, Xilinx/Vivado, Cadence, ModelSim) and hardware platforms required for advanced experimentation and research. | Utilized by faculty and students for research work, publications, funded projects, consultancy activities, and postgraduate-level experimentation | PO3,PO4,PO5,PO9,PO10,PO11 |
| 3. | QNX Center of Excellence | <ul style="list-style-type: none"> • QNX Neutrino RTOS licenses • Automotive-grade embedded hardware platforms • Debuggers and real-time performance analysis tools | Utilized for industry-aligned courses, hands-on workshops, certification programs, internships, and Major Project work | PO3,PO4,PO5,PO9,PO10,PO11 |



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) | 1020 | 51 | 26 | 109 | 84 |
| 2024-25(CAYm1) | 1140 | 57 | 26 | 109 | 75 |
| 2025-26(CAY) | 1140 | 57 | 28 | 123 | 82 |

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 2025-26 | Actual Expenses in 2025-26 till | Budgeted in 2024-25 | Actual Expenses in 2024-25 till | Budgeted in 2023-24 | Actual Expenses in 2023-24 till | Budgeted in 2022-23 | Actual Expenses in 2022-23 till |
|--|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|
| Infrastructure Built-Up | 0 | 0 | 453200000 | 6615544 | 9030000 | 0 | 0 | 0 |
| Library | 2460000 | 293733 | 1560000 | 0 | 200000 | 1176285 | 1000000 | 387382 |
| Laboratory equipment | 60009000 | 13377431 | 78758000 | 39758895 | 27324400 | 17304804 | 24300000 | 16439458 |
| Teaching and non-teaching staff salary | 414191403 | 297560387 | 403311356 | 322583365 | 385726891 | 320435182 | 355301441 | 351069180 |
| Outreach Programs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R&D | 3500000 | 590484 | 4000000 | 2455565 | 2475000 | 2264469 | 2000148 | 1162132 |
| Training, Placement and Industry linkage | 5175000 | 1619728 | 2200000 | 3191492 | 2200000 | 2010720 | 2000000 | 2135704 |
| SDGs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Entrepreneurship | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Others, specify | 205219130 | 117927900 | 230695928 | 141977818 | 227916544 | 133380848 | 70450443 | 80653419 |
| Total | 690554533 | 431369663 | 1173725284 | 516582679 | 654872835 | 476572308 | 455052032 | 451847275 |

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 2025-26 | Actual Expenses in 2025-26 till | Budgeted in 2024-25 | Actual Expenses in 2024-25 till | Budgeted in 2023-24 | Actual Expenses in 2023-24 till | Budgeted in 2022-23 | Actual Expenses in 2022-23 till |
|----------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|
| Laboratory equipment | 5375000 | 2286639.00 | 4100000 | 4748467.00 | 1534000 | 622795.00 | 2000000 | 1020525.00 |

| | | | | | | | | |
|--|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|
| Software | 0 | 157333.00 | 0 | 0 | 0 | 0 | 0 | 0 |
| SDGs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Support for faculty development | 100000 | 94317.00 | 100000 | 155793.00 | 50000 | 139935.00 | 0 | 20015.00 |
| R & D | 0 | 10000.00 | 0 | 0 | 0 | 0 | 0 | 0 |
| Industrial Training, Industry expert, Internship | 50000 | 0 | 75000 | 45107.00 | 150000 | 5000.00 | 0 | 0 |
| Miscellaneous Expenses* | 3004000 | 0 | 3004000 | 4202887.00 | 980000 | 2247285.00 | 638845 | 1691473.00 |
| Total | 8529000 | 2548289.00 | 7279000 | 9152254.00 | 2714000 | 3015015.00 | 2638845 | 2732013.00 |