

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 Telecommunication Engineering | Discipline : Engineering & Technology |
| Level : Under Graduate | Tier : 1 |
| Application No : 11493 | Date of Submission : 23-01-2026 |

PART A- Profile of the Institute

| | |
|---------------------------------------------------------------------------------------------------|-------------------------------------|
| A1.Name of the Institute : R C Patel Institute of Technology | |
| Year of Establishment : 2001 | Location of the Institute: Shirpur |
| A2. Institute Address :Near Nimzari Naka, Shahada Road, Shirpur - 425405, Dist: Dhule (MS) | |
| City:Dhule | State:Maharashtra |
| Pin Code:425405 | Website:www.rcpit.ac.in |
| Email:principal@rcpit.ac.in | Phone No(with STD Code):2563-259600 |
| A3. Name and Address of the Affiliating University (if any) : | |
| Name of the University : Dr. Babasaheb Ambedkar Technological University, L | City: Raigad |
| State : Maharashtra | Pin Code: 402103 |
| A4. Type of the Institution : Autonomous CAY(2020-21) | |
| A5. Ownership Status : Self financing | |

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

- No. of UG programs: **9**
- No. of PG programs: **1**

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 | 2023 | 2024 | Computer Application |
| 2 | Engineering & Technology | UG | Artificial Intelligence and Data Science | 2024 | -- | Artificial Intelligence and Data Science |
| 3 | Engineering & Technology | UG | Artificial Intelligence and Machine Learning | 2021 | -- | Artificial Intelligence and Machine Learning |
| 4 | Engineering & Technology | UG | Civil Engineering | 2010 | -- | Civil Engineering |
| 5 | Engineering & Technology | UG | Computer Engineering | 2001 | -- | Computer Engineering |
| 6 | Engineering & Technology | UG | Computer Science and Engineering (Data Science) | 2020 | -- | Computer Science and Engineering (Data Science) |

| | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| 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 | 110 | 117 | 118 | 120 | 117 | 117 | 104 |
| N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats | 0 | 18 | 22 | 15 | 20 | 16 | 5 |
| 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 | 6 | 6 | 6 | 6 | 6 | 4 | 6 |
| Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points. | 116 | 141 | 146 | 141 | 143 | 137 | 115 |

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) | 120 | 110 | 6 | 96.67 |
| 2024-25 (CAYm1) | 120 | 117 | 6 | 102.50 |
| 2023-24 (CAYm2) | 120 | 118 | 6 | 103.33 |

Average [(ER1 + ER2 + ER3) / 3] = 100.83≅ 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). | 143.00 | 137.00 | 125.00 |
| B=No. of students who graduated from the program in the stipulated course duration | 87.00 | 94.00 | 106.00 |
| Success Rate (SR)= (B/A) * 100 | 60.84 | 68.61 | 84.80 |

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 71.42

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) | 7.07 | 7.40 | 6.51 |
| Y=Total no. of successful students | 114.00 | 110.00 | 100.00 |
| Z=Total no. of students appeared in the examination | 123.00 | 122.00 | 126.00 |
| API [X*(Y/Z)] | 6.55 | 6.67 | 5.17 |

Average API [(AP1+AP2+AP3)/3] : 6.13

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) | 7.30 | 6.64 | 6.08 |
| Y=Total no. of successful students | 125.00 | 105.00 | 108.00 |
| Z=Total no. of students appeared in the examination | 132.00 | 115.00 | 112.00 |
| API [X * (Y/Z)] | 6.91 | 6.06 | 5.86 |

Average API [(AP1 + AP2 + AP3)/3] : 6.28

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) | 7.00 | 6.63 | 7.00 |
| Y=Total no. of successful students | 104.00 | 106.00 | 97.00 |
| Z=Total no. of students appeared in the examination | 105.00 | 108.00 | 128.00 |
| API [X*(Y/Z)]: | 6.93 | 6.51 | 5.30 |

Average API [(AP1 + AP2 + AP3)/3] : 6.25

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 | 140.00 | 136.00 | 125.00 |
| X=No. of students placed | 64.00 | 59.00 | 84.00 |
| Y=No. of students admitted to higher studies | 1.00 | 1.00 | 1.00 |
| Z= No. of students taking up entrepreneurship | 1.00 | 0.00 | 0.00 |
| Placement Index(P) = ((X + Y + Z)/FS) * 100): | 47.14 | 44.12 | 68.00 |

Average Placement Index = (P_1 + P_2 + P_3)/3: 53.09 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 | Prof.Dr. Pramod Jagan Deore | XXXXXXXX07P | Ph.D | SRTMU, Nanded | Control Systems | 12/08/2002 | 23.5 | Lecturer | Professor | 01/07/2008 | Regular | Yes | | No |
| 2 | Prof.Dr. Vijay Shrinath Patil | XXXXXXXX50Q | Ph.D | KBCNMU, Jalgaon | Image Processing | 11/07/2005 | 20.6 | Lecturer | Professor | 01/07/2021 | Regular | Yes | | Yes |
| 3 | Mr.Pravin Ravindra Bhole | XXXXXXXX09P | M.E. | KBCNMU, Jalgaon | Electronics and Telecommunication Engineering | 01/07/2003 | 22.6 | Lecturer | Assistant Professor | | Regular | Yes | | No |
| 4 | Prof.Dr. Jagadish Baburao Jadhav | XXXXXXXX97H | Ph.D | KBCNMU, Jalgaon | Microwave Antenna | 16/08/2004 | 21.5 | Lecturer | Professor | 01/07/2020 | Regular | Yes | | No |
| 5 | Dr. Vinodkumar Ramesh Patil | XXXXXXXX00P | Ph.D | KBCNMU, Jalgaon | Biomedical Image Processing | 01/07/2005 | 20.6 | Lecturer | Associate Professor | 01/07/2025 | Regular | Yes | | No |
| 6 | Prof. Dr. Tushar Hrishikesh Jaware | XXXXXXXX95F | Ph.D | SGB Amravati University | Biomedical Image Processing | 21/07/2005 | 20.5 | Lecturer | Professor | 01/06/2022 | Regular | Yes | | No |
| 7 | Dr. Ravindra Daga Badgujar | XXXXXXXX15H | Ph.D | KBCNMU, Jalgaon | Biomedical Image Processing | 21/07/2005 | 20.5 | Lecturer | Associate Professor | 01/06/2022 | Regular | Yes | | No |
| 8 | Dr. Smital Dhanraj Patil | XXXXXXXX12L | Ph.D | KBCNMU, Jalgaon | Biomedical Image Processing | 13/12/2005 | 20.1 | Lecturer | Assistant Professor | | Regular | Yes | | No |

| | | | | | | | | | | | | | | |
|----|---------------------------------|-------------|--------|---------------------------|-----------------------------------------------|------------|------|---------------------|---------------------|------------|---------|-----|--|----|
| 9 | Dr. Kiran Hilal Sonawane | XXXXXXXX42M | Ph.D | KBCNMU, Jalgaon | Microwave Antenna | 17/07/2006 | 19.6 | Lecturer | Assistant Professor | | Regular | Yes | | No |
| 10 | Dr. Mahesh Bhimsham Dembrani | XXXXXXXX21F | Ph.D | SGB Amravati University | Signal Processing | 17/07/2006 | 19.6 | Lecturer | Associate Professor | 01/06/2022 | Regular | Yes | | No |
| 11 | Dr. Narendra Lalchand Lokhande | XXXXXXXX96J | Ph.D | KBCNMU, Jalgaon | Biomedical Image Processing | 07/08/2006 | 19.5 | Lecturer | Assistant Professor | | Regular | Yes | | No |
| 12 | Dr. Jitendra Prakash Patil | XXXXXXXX23C | Ph.D | KBCNMU, Jalgaon | Biomedical Image Processing | 20/08/2007 | 18.4 | Lecturer | Assistant Professor | | Regular | Yes | | No |
| 13 | Dr. Prashant Gorakh Patil | XXXXXXXX24E | Ph.D | RTM Nagpur University | Speech Processing | 25/08/2007 | 18.4 | Lecturer | Associate Professor | 01/06/2022 | Regular | Yes | | No |
| 14 | Dr. Bhushan Vamanrao Patil | XXXXXXXX08F | Ph.D | KBCNMU, Jalgaon | Image Processing and IoT | 02/06/2008 | 17.7 | Lecturer | Assistant Professor | | Regular | Yes | | No |
| 15 | Dr. Prashant Maganlal Goad | XXXXXXXX50N | Ph.D | KBCNMU, Jalgaon | Biomedical Signal Processing | 04/08/2008 | 17.5 | Lecturer | Assistant Professor | | Regular | Yes | | No |
| 16 | Dr. Anupkumar Bhatulal Jayaswal | XXXXXXXX81B | Ph.D | KBCNMU, Jalgaon | Biomedical Image Processing | 12/07/2010 | 15.6 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 17 | Dr. Vinitkumar Vasantbhai Patel | XXXXXXXX23D | Ph.D | Parul University Vadodara | Biomedical Image Processing | 22/09/2010 | 15.4 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 18 | Mr. Manoj Lilachand Patel | XXXXXXXX96G | M.E. | SGB Amravati University | Digital Electronics Engineering | 22/07/2011 | 14.5 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 19 | Mrs. Kavita Sagar Patil | XXXXXXXX33M | M.E. | KBCNMU, Jalgaon | Electronics and Telecommunication Engineering | 01/12/2022 | 3.1 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 20 | Mr. Subhash Gokul Patil | XXXXXXXX75F | M.Tech | RGPV Bhopal | Digital Communication Engineering | 01/02/2025 | 0.11 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |
| 21 | Mrs. Sneha Manish Gagarani | XXXXXXXX46B | M.E. | KBCNMU, Jalgaon | Electronics and Telecommunication Engineering | 07/08/2023 | 2.5 | Assistant Professor | Assistant Professor | | Regular | Yes | | No |

| | | | | | | | | | | | | | | |
|----|--------------------------------|-------------|--------|-----------------|----------------------------|------------|------|---------------------|---------------------|------------|---------|----|------------|----|
| 22 | Mr. Vediya Sitaram Raghuvanshi | XXXXXXXX23C | M.Tech | SPPU,Pune | VLSI and Embedded Systems | 25/07/2016 | 8.10 | Assistant Professor | Assistant Professor | | Regular | No | 30/05/2025 | No |
| 23 | Dr. Sagar Arun More | XXXXXXXX22B | Ph.D | KBCNMU, Jalgaon | Biometric Image Processing | 16/08/2004 | 19.9 | Lecturer | Associate Professor | 01/06/2022 | Regular | No | 31/05/2024 | No |
| 24 | Mr. Kaustubh Shivaji Sagale | XXXXXXXX71M | M.E. | RGPV Bhopal | Digital Communication | 03/08/2023 | 1.1 | Assistant Professor | Assistant Professor | | Regular | No | 25/09/2024 | 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 Department0

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

| Description | CAY(2025-26) | CAYm1 (2024-25) | CAYm2 (2023-24) |
|----------------------------------------------------------------------------|----------------|-----------------|-----------------|
| UG1.B | 132 | 132 | 132 |
| UG1.C | 132 | 132 | 132 |
| UG1.D | 132 | 132 | 132 |
| UG1: Electronics Telecommunication Engineering | 396 | 396 | 396 |
| DS=Total no. of students in all UG and PG programs in the Department | 396 | 396 | 396 |
| 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= 396 | S2= 396 | S3= 396 |

| Description | CAY(2025-26) | CAYm1 (2024-25) | CAYm2 (2023-24) |
|-------------------------------------------------------------------------------------|--------------|-----------------|-----------------|
| DF=Total no. of faculty members in the Department | 21 | 21 | 23 |
| 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= 21 | F2= 21 | F3= 23 |
| FF=The faculty members in F who have a 100% teaching load in the first-year courses | 2 | 3 | 3 |
| Student Faculty Ratio (SFR)=S/(F-FF) | SFR1= 20.84 | SFR2= 22.00 | SFR3= 19.80 |
| Average SFR for 3 years | SFR= 20.88 | | |

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) | 15 | 6 | 19.00 | 22.89 |
| 2024-25(CAYm1) | 7 | 14 | 19.00 | 16.58 |
| 2023-24(CAYm2) | 8 | 15 | 19.00 | 18.42 |

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 | 4.00 | 4.00 | 13.00 | 13.00 |
| 2024-25 | 2.00 | 4.00 | 4.00 | 3.00 | 13.00 | 14.00 |
| 2023-24 | 2.00 | 4.00 | 4.00 | 4.00 | 13.00 | 15.00 |
| Average | RF1=2.00 | AF1=4.00 | RF2=4.00 | AF2=3.67 | RF3=13.00 | AF3=14.00 |

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. Sandip Ramesh Thakre | Associate Director, UBS AG, Warsaw, Poland | UBS AG, Warsaw, Poland | Programming Languages using real time projects | 60.00 |
| 2 | Mr. Pramod Brijlal Patel | Computer Scientist, Edgeverve Systems Ltd. An Infosys Company, Pune | Edgeverve Systems Ltd. An Infosys Company, Pune | Data Engineering | 70.00 |

(CAYm2)

| S.No | Name of the Person | Designation | Organization | Name of the Course | No. of hours handled |
|------|--------------------------|--------------------------------------------|------------------------|------------------------------------------------|----------------------|
| 1 | Mr. Sandip Ramesh Thakre | Associate Director, UBS AG, Warsaw, Poland | UBS AG, Warsaw, Poland | Programming Languages using real time projects | 60.00 |

(CAYm3)

| S.No | Name of the Person | Designation | Organization | Name of the Course | No. of hours handled |
|------|--------------------------|--------------------------------------------|------------------------|------------------------------------------------|----------------------|
| 1 | Mr. Sandip Ramesh Thakre | Associate Director, UBS AG, Warsaw, Poland | UBS AG, Warsaw, Poland | Programming Languages using real time projects | 60.00 |

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 | 13 | 7 | 5 |
| 2 | No. of peer reviewed conference papers published | 6 | 23 | 5 |
| 3 | No. of books/book chapters published | 6 | 2 | 5 |

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. Prashant Gorakh Patil | -- | Department of E&TC Engineering | Design and Development of a Humanoid Robot for Human-Like Interaction and Task Assistance (Humanoid Robot) | Atal Tinkering Lab,SES Main Building | 1 Year | 2.48 |
| Dr. Bhushan Vamanrao Patil | -- | Department of E&TC Engineering | Implementation of an Autonomous Line Follower Robot (Line Follower Robot) | Lotus Industries, Morbi (Gujrat) | 1 Year | 0.48 |
| Dr. Mahesh Bhimsham Dembrani | -- | Department of E&TC Engineering | IoT-Based Medical Emergency Response and Patient Monitoring System (Medical Emergency Response System) | Siddhivinayak hospital, Shirpur | 1 Year | 0.47 |
| Dr. Narendra Lalchand Lokhande | -- | Department of E&TC Engineering | Digital Pass Key Security System for Access Control (Pass Key) | Pariter M&E Commerce Solutions, Pvt Ltd | 1 Year | 0.38 |
| Prof. Dr. Tushar Hrishikesh Jaware | -- | Department of E&TC Engineering | Enviro-Watch – Smart IoT Based Environmental Monitoring System (Enviro Watch) | MPKV Nandurbar | 1 Year | 0.28 |
| | | | | | | Amount received (Rs.):4.09 |

(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. Ravindra Daga Badgujar | -- | Department of E&TC Engineering | IoT-Based Smart Irrigation and Soil Monitoring System (Krishi-Dhara) | Sonawane Nursery, Shirpur | 1 Year | 0.49 |
| Dr. Kiran Hilal Sonawane | -- | Department of E&TC Engineering | Real-Time Birth Counting and Display System Using Embedded Technology (Birth Counter) | Shakuntala Hospital, Shirpur | 1 Year | 0.33 |
| Dr. Sagar Arun More | Mr.Om Patil | Department of E&TC Engineering | Autonomous Drone for Precision Applications (Armed UAV) | OIC Innovation Cell | 1 Year | 4.75 |
| | | | | | | Amount received (Rs.):5.57 |

(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 |
|----------------------------------|---------------------|------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------|-------------------------|-----------------------------------|
| Prof.Dr. Jagadish Baburao Jadhav | -- | Department of E&TC Engineering | Sensor-Based Digital Follower Counter for Public Spaces (Follower counter) | Pariter M&E Commerce Solutions, Pvt Ltd | 1 Year | 0.39 |
| Dr. Vinodkumar Ramesh Patil | -- | Department of E&TC Engineering | Bidirectional Visitor Counter for Entrance Management Systems (Visitor Counter) | Shirpur Municipal Garden | 1 Year | 0.19 |
| Prof.Dr. Vijay Shrinath Patil | Mr. Prathamesh Mali | Department of E&TC Engineering | Autonomous Mars Rover for Planetary Exploration and Terrain Analysis (Mars Rover) | Institute Funding for ISRO Competition | 2 Year | 2.19 |
| | | | | | | Amount received (Rs.):2.77 |

Total Amount (Lacs) Received for the Past 3 Years: 12.43

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 |
|-------------------------------|--------------------|------------------------------------------------|-------------------------------------------------------|----------------------------|-------------------------|-----------------------------------|
| Prof.Dr. Vijay Shrinath Patil | -- | Department of E&TC Engineering | Centralized Admission Process (CET-CELL, Maharashtra) | CET, CELL, Maharashtra | 3 Months | 0.39 |
| | | | | | | Amount received (Rs.):0.39 |

(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 |
|-------------------------------|--------------------|------------------------------------------------|-------------------------------------------------------|----------------------------|-------------------------|-----------------------------------|
| Prof.Dr. Vijay Shrinath Patil | -- | Department of E&TC Engineering | Centralized Admission Process (CET-CELL, Maharashtra) | CET, CELL, Maharashtra | 3 Months | 0.59 |
| | | | | | | Amount received (Rs.):0.59 |

(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 |
|-------------------------------|--------------------|------------------------------------------------|-------------------------------------------------------|----------------------------|-------------------------|--------------------------------------|
| Prof.Dr. Vijay Shrinath Patil | -- | Department of E&TC Engineering | Centralized Admission Process (CET-CELL, Maharashtra) | CET, CELL, Maharashtra | 3 Months | 0.46 |
| | | | | | | Amount received (Rs.):0.46 |

Total amount (Lacs) received for the past 3 years: 1.44

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 |
|---------------------------------|--------------------------------------------------------------------------------------|-------------------------|--------------------------------------|-----------------------------------------------|-------------------------------------------|
| Mr. Prashant Maganlal Goad | An Intelligent Computer Aided System for Prediction of Cardiovascular Disease | 1 Year | 0.48 | 0.42 | Publications/ Copyrights/Patents Obtained |
| Mr. Anupkumar Bhatulal Jayaswal | An Automated Method for Segmentation and Detection of Cancer Cell in Kidney | 1 Year | 0.48 | 0.43 | Publications/ Copyrights/Patents Obtained |
| Mr. Pravin Ravindra Bhole | A Compact Micro strip Patch Antenna with Enhanced Bandwidth and harmonic Suppression | 1 Year | 0.66 | 0.58 | Publications/ Copyrights/Patents Obtained |
| Mr. Narendra Lalchand Lokhande | Computer Aided System for Detection and Diagnosis of Lung Cancer | 1 Year | 0.48 | 0.42 | Publications/ Copyrights/Patents Obtained |
| Mr. Vinitkumar Vasambhai Patel | All in one STEM Box | 1 Year | 0.07 | 0.06 | Publications/ Copyrights/Patents Obtained |
| Dr. Smital Dhanraj Patil | Smart Fire Detection and Alert System | 1 Year | 0.19 | 0.17 | Publications/ Copyrights/Patents Obtained |
| | | | Amount received (Rs.): 2.36 | | |

(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 |
|---------------------------------|-------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------|-------------------------------------------------------|-------------------------------------------|
| Ms. Smital Dhanraj Patil | An Intelligent Computer Aided System for Detection and Characterization of Ovarian Masses | 1 Year | 0.48 | 0.39 | Publications/ Copyrights/Patents Obtained |
| Mr. Vinodkumar Ramesh Patil | Computer Assisted Diagnosis and Neuroimaging of Baby Infants | 1 Year | 0.48 | 0.41 | Publications/ Copyrights/Patents Obtained |
| Mr. Jitendra Prakash Patil | Computer Aided Diagnoses of Histopathological Images for Colorectal Cancer classification | 1 Year | 0.48 | 0.43 | Publications/ Copyrights/Patents Obtained |
| Mr. Prashant Maganlal Goad | An Intelligent Computer Aided System for Prediction of Cardiovascular Disease (CVD) | 1 Year | 0.48 | 0.38 | Publications/ Copyrights/Patents Obtained |
| Mr. Anupkumar Bhatulal Jayaswal | An Automated Method for Segmentation and Detection of Cancer Cell in Kidney | 1 Year | 0.48 | 0.36 | Publications/ Copyrights/Patents Obtained |
| Mr. Pravin Ravindra Bhole | A Compact Micro strip Patch Antenna with Enhanced Bandwidth and harmonic Suppression | 1 Year | 0.66 | 0.58 | Publications/ Copyrights/Patents Obtained |
| Mr. Narendra Lalchand Lokhande | Computer Aided System for Detection and Diagnosis of Lung Cancer | 1 Year | 0.48 | 0.42 | Publications/ Copyrights/Patents Obtained |
| Dr. Ravindra Daga Badgujar | Smart Waste monitoring System | 1 Year | 0.15 | 0.10 | Publications/ Copyrights/Patents Obtained |
| Dr Mahesh Bhimsham Dembrani | Water Quality index Measurement | 1 Year | 0.16 | 0.11 | Publications/ Copyrights/Patents Obtained |
| | | | Amount received (Rs.): 3.85 | | |

(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 |
|---------------------------------|-------------------------------------------------------------------------------------------|-------------------------|--------------------------------------|-----------------------------------------------|-------------------------------------------|
| Ms. Smital Dhanraj Patil | An Intelligent Computer Aided System for Detection and Characterization of Ovarian Masses | 1 Year | 0.48 | 0.36 | Publications/ Copyrights/Patents Obtained |
| Mr. Vinodkumar Ramesh Patil | Computer Assisted Diagnosis and Neuroimaging of Baby Infants | 1 Year | 0.48 | 0.23 | Publications/ Copyrights/Patents Obtained |
| Mr. Jitendra Prakash Patil | Computer Aided Diagnoses of Histopathological Images for Colorectal Cancer classification | 1 Year | 0.48 | 0.25 | Publications/ Copyrights/Patents Obtained |
| Mr. Prashant Maganlal Goad | An Intelligent Computer Aided System for Prediction of Cardiovascular Disease (CVD) | 1 Year | 0.48 | 0.29 | Publications/ Copyrights/Patents Obtained |
| Mr. Anupkumar Bhatulal Jayaswal | An Automated Method for Segmentation and Detection of Cancer Cell in Kidney | 1 Year | 0.48 | 0.32 | Publications/ Copyrights/Patents Obtained |
| Mr. Pravin Ravindra Bhole | A Compact Micro strip Patch Antenna with Enhanced Bandwidth and harmonic Suppression | 1 Year | 0.66 | 0.53 | Publications/ Copyrights/Patents Obtained |
| Mr. Narendra Lalchand Lokhande | Computer Aided System for Detection and Diagnosis of Lung Cancer | 1 Year | 0.48 | 0.38 | Publications/ Copyrights/Patents Obtained |
| Dr. Prashant Gorakh Patil | Wireless Floor cleaner Robot | 1 Year | 0.23 | 0.19 | Publications/ Copyrights/Patents Obtained |
| | | | Amount received (Rs.): 3.77 | | |

Total amount (Lacs) received for the past 3 years : 9.98

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 | EL-1 Basic Electronics Lab | 3 | 50MHz DSO, 10MHz Function Generator 20MHz CRO, Table top DMM, 3 MHz signal generator, Dual power supply, Protoboard | 24 Hrs/Week | Mr. Balkrishna Yast | Lab Assistant | Diploma Industrial I |

| | | | | | | | |
|---|-------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------|-------------|--------------------|---------------|--------------|
| 2 | EL-2 Microprocessor & Embedded Systems Lab | 3 | 8085 Development Board, 8051 Development Board (with Peripheral Interface), 8086 Development Board | 10 Hrs/Week | Mr Ganesh Rajend | Lab Assistant | MSc Physics |
| 3 | EL-3 Digital & Logic Circuits Lab/ Microwave & Antenna Lab/ | 3 | 50MHz DSO, 10MHz Function Generator Analog & Digital Communication Trainer kits, Satellite Communication Trainer kits | 10 Hrs/Week | Mr Jagan Shikarya | Lab Assistant | Diploma E&TC |
| 4 | EL-4 Electronic Devices & Circuits Lab | 3 | 50MHz DSO, 10MHz Function Generator 20MHz CRO, 3MHz signal generator, Table top DMM, Auto Transformer, DC power | 24 Hrs/Week | Mrs Harshali Narer | Lab Assistant | Diploma E&TC |
| 5 | EL-5 Digital Signal Processing Lab | 1 | HP all in one desktop systems, MATLAB, IE3D, Python, LaTeX software | 22 Hrs/Week | Mr Nishigandh Sidc | Lab Assistant | MCA |
| 6 | EL-6 IoT & VLSI Lab | 1 | HP all in one desktop systems, MATLAB, Python, LaTeX software, Zybo Z7: Zynq-7000 ARM/FPGA SoC Development Board | 22 Hrs/Week | Mr Nishigandh Sidc | Lab Assistant | MCA |

D2. Safety Measures in Laboratories

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

| Sr. No | Laboratory Name | Safety Measures |
|--------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | EL-1 Basic Electronics Lab | A. Basic safety measures: Do's and Don'ts, SOP. B. Lab-specific safety measures: First-aid box, CCTV Surveillance, Fire safety and Electrical Safety |
| 2 | EL-2 Microprocessor & Embedded Systems Lab | A. Basic safety measures: Do's and Don'ts, SOP. B. Lab-specific safety measures: First-aid box, CCTV Surveillance, Fire safety and Electrical Safety. |
| 3 | EL-3 Digital & Logic Circuits Lab/ Microwave & Antenna Lab | A. Basic safety measures: Do's and Don'ts, SOP. B. Lab-specific safety measures: First-aid box, CCTV Surveillance, Fire safety and Electrical Safety. |
| 4 | EL-4 Electronic Devices & Circuits Lab | A. Basic safety measures: Do's and Don'ts, SOP. B. Lab-specific safety measures: First-aid box, CCTV Surveillance, Fire safety and Electrical Safety. |
| 5 | EL-5 Digital Signal Processing Lab | A. Basic safety measures: Do's and Don'ts, SOP. B. Lab-specific safety measures: First-aid box, CCTV Surveillance, Fire safety and Electrical Safety. |

| | | |
|---|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6 | EL-6 IoT & VLSI Lab | A. Basic safety measures: Do's and Don'ts, SOP. B. Lab-specific safety measures: First-aid box, CCTV Surveillance, Fire safety and Electrical Safety. |
| 7 | Project Lab | A. Basic safety measures: Do's and Don'ts, SOP. B. Lab-specific safety measures: First-aid box, CCTV Surveillance, Fire safety and Electrical Safety. |
| 8 | Research Lab | A. Basic safety measures: Do's and Don'ts, SOP. B. Lab-specific safety measures: First-aid box, CCTV Surveillance, Fire safety and Electrical Safety. |
| 9 | Centre of Excellence (Computer Center and Language Lab) | A. Basic safety measures: Do's and Don'ts, SOP. B. Lab-specific safety measures: First-aid box, CCTV Surveillance, Fire safety and Electrical Safety. |

D3. Project Laboratory/Research Laboratory

To promote project-based learning, research activities, and innovation, the Electronics and Telecommunication Engineering Department has developed dedicated facilities such as the Project Laboratory, Research Laboratory, and Centre of Excellence. These facilities provide students with the required environment for design, experimentation, simulation, testing, and advanced technical work. They help in enhancing analytical skills, technical knowledge, and industry readiness of students. The details of these facilities are presented in Table 7.5.1.

Table No. 7.5.1: List of Project Laboratory/ Research Laboratory/Centre of Excellence

| S.N. | Name of the Laboratory |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | <p>Project Laboratory</p> <p>The Electronics and Telecommunication Engineering Department has established a dedicated Project Laboratory to support student project work. The laboratory provides facilities for system design, hardware implementation, testing, validation, and demonstration of projects.</p> <p>It is equipped with essential electronic test and measurement instruments, embedded development boards, PCB prototyping facilities, and adequate computing systems. Software tools such as MATLAB, Xilinx, IE3D, TINA-Pro, and Circuit Breaker are available for design, simulation, and analysis. Open-source platforms including LaTeX, Scilab, and Google Colab are used for coding, documentation, and project-related learning.</p> <p>Details of completed projects are documented in Section 2.2(D) of the Self-Assessment Report (SAR).</p> <p>Utilization</p> <p>The Project Laboratory is systematically utilized throughout the academic year for execution of student projects. Students use the laboratory for requirement analysis, system design, circuit realization, hardware integration, testing, troubleshooting, and performance validation. The facility is also used for prototype development, experimental verification of results, and final project demonstrations before evaluation panels. Faculty members regularly monitor progress, conduct review meetings, and guide students during validation and performance assessment stages. Laboratory usage is planned according to project schedules to ensure effective sharing of infrastructure among student groups.</p> <p>Relevance to POS/PSOs: PO3, PO4,PO5, PSO1, PSO2</p> |

| S.N. | Name of the Laboratory |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. | <p data-bbox="684 151 894 175">Research Laboratory</p> <p data-bbox="684 196 1516 310">The Electronics and Telecommunication Engineering Department has established a Research Laboratory to support advanced learning, analytical studies, and interdisciplinary activities. The laboratory provides facilities for modelling, simulation, data analysis, and validation of engineering concepts.</p> <p data-bbox="684 331 1516 444">It is equipped with computing systems and necessary software tools to support work in signal processing, communication systems, embedded systems, and interdisciplinary areas involving electronics and computing domains. The laboratory provides an environment for students to verify theoretical concepts through simulation and analysis.</p> <p data-bbox="684 466 785 490">Utilization</p> <p data-bbox="684 511 1516 748">The Research Laboratory is utilized by students for simulation-based learning, analytical studies, and interdisciplinary projects. Students perform system modelling, run simulations, analyze outputs, and evaluate system performance under different conditions. The facility is also used for research assignments, technical paper preparation, and improvement of project quality through detailed analysis and validation. Faculty members guide students in result interpretation, performance comparison, and preparation of technical reports. The laboratory encourages students to explore advanced and interdisciplinary topics beyond the regular curriculum.</p> <p data-bbox="684 769 1173 794">Relevance to POS/PSOs: PO4, PO5, PSO1, PSO2</p> |

| S.N. | Name of the Laboratory |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. | <p data-bbox="684 151 894 175">Centre of Excellence</p> <p data-bbox="684 196 1520 310">The Institute has established a Centre of Excellence as a dedicated facility to promote advanced learning, innovation, and industry interaction. It acts as a common platform where students and faculty members can engage in project development, research activities, skill enhancement programs, and technology-based initiatives.</p> <p data-bbox="684 331 1520 444">The Centre is supported with modern infrastructure, updated hardware platforms, and required software tools to work in emerging and interdisciplinary domains. It also facilitates interaction and collaboration with industry professionals, research organizations, and alumni for knowledge sharing and technical guidance.</p> <p data-bbox="684 466 1520 644">The Institute has established a Centre of Excellence for Drone and Robotics to promote advanced learning, innovation, and skill development. It includes specialized facilities such as the Drone Lab and Robotics Lab. The Centre is supported with modern equipment, required software tools, and infrastructure to work in emerging and interdisciplinary technologies. It also encourages collaboration with industry experts, research organizations, and alumni.</p> <p data-bbox="684 665 1520 837">The Centre of Excellence for Foreign Languages to improve students' communication and professional skills. The Language Lab is equipped with audio-visual systems and language learning software to enhance listening, speaking, reading, and writing skills. In addition to English communication training, the lab also provides training in German and Japanese languages to improve global employability and international opportunities for students.</p> <p data-bbox="684 859 1520 1037">The Centre of Excellence integrates the CodeChef Learning Platform to systematically enhance students' programming, problem-solving, and analytical capabilities. It provides a structured and progressive learning environment focused on building strong foundations in coding, logical reasoning, and algorithm design. The curriculum is aligned with industry standards to strengthen computational thinking and core technical competencies required in today's technology-driven landscape.</p> <p data-bbox="684 1058 1520 1203">Beyond problem-solving, the platform emphasizes hands-on project development using modern technologies such as MERN (MongoDB, Express.js, React, Node.js), SQL, Spring Boot, Data Analysis, and Machine Learning. Students gain practical exposure by building real-world applications, working with databases, and developing intelligent systems, thereby bridging the gap between theoretical learning and industry application.</p> <p data-bbox="684 1224 785 1248">Utilization</p> <p data-bbox="684 1269 1520 1383">The Centre of Excellence is actively utilized for student projects, faculty research, workshops, certification programs, internships, and technical training activities. It provides opportunities for students to work on real-time problems, develop prototypes, and enhance practical skills.</p> <p data-bbox="684 1404 1520 1518">Industry experts and alumni are invited for expert talks, mentoring sessions, and technical guidance. The Centre also supports innovation activities, product development initiatives, and entrepreneurship-related efforts. Through these activities, students gain hands-on exposure to modern technologies and professional practices.</p> |

| S.N. | Name of the Laboratory |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>The Centre of Excellence is utilized for student projects, workshops, internships, certification programs, and research activities. The Drone Lab is used for designing, assembling, and testing drones for academic and practical applications. The Robotics Lab is used for robot design, programming, and automation experiments.</p> <p>The Language Lab is utilized for communication skill development, presentation practice, group discussions, interview preparation, and foreign language learning (German and Japanese). It helps students build confidence and prepare for placements and global career opportunities.</p> <p>The CodeChef platform is utilized to enhance students' coding proficiency and analytical thinking through structured practice in a time-bound environment, improving both accuracy and execution speed. It supports systematic preparation for technical interviews and placement processes by reinforcing core programming concepts and data structures.</p> <p>Additionally, students engage in technology-driven project work across domains such as full-stack development (MERN stack), database management (SQL), and Machine Learning, enabling them to build portfolios that demonstrate practical skills alongside problem-solving expertise.</p> <p>Relevance to POS/PSOs: PO1, PO2, PO3, PO4, PO5, PO10, PO11, PSO1, PSO2</p> |

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) | 600 | 30 | 19 | 15 | 61 |
| 2024-25(CAYm1) | 900 | 45 | 24 | 16 | 50 |
| 2025-26(CAY) | 900 | 45 | 24 | 17 | 50 |

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 | 56185000 | 40031473 | 15500000 | 14184657.16 | 19500000 | 17957708.42 | 26600000 | 25803609.00 |
| Library | 3010000 | 2144543 | 390000 | 365810.00 | 475000 | 428611.00 | 600000 | 562977.00 |
| Laboratory equipment | 19313000 | 13760819 | 18000000 | 16334781.67 | 4000000 | 3740419.44 | 2030000 | 1942207.57 |
| Teaching and non-teaching staff salary | 200133000 | 148598974 | 260500000 | 258021615.00 | 244000000 | 239915225.00 | 20830000 | 20627479.00 |
| Outreach Programs | 1505000 | 1072272 | 100000 | 93515.00 | 250000 | 236479.00 | 44000 | 41828.00 |
| R&D | 2634000 | 1876475 | 260000 | 220720.00 | 200000 | 190765.00 | 44000 | 41417.47 |
| Training, Placement and Industry linkage | 9030000 | 6433630 | 7500000 | 7142410.00 | 7200000 | 6839043.20 | 3230000 | 3035586.00 |
| SDGs | 65336000 | 45571543 | 62000000 | 58921028.70 | 70000000 | 63735562.11 | 76400000 | 70692693.32 |
| Entrepreneurship | 1693000 | 1206306 | 150000 | 139055.00 | 175000 | 168410.00 | 142000 | 133549.00 |
| Others, specify | 16584000 | 4691188 | 15000000 | 720000.00 | 7000000 | 2705775.52 | 4000000 | 4092368.00 |
| Total | 375423000 | 265387223 | 379400000 | 356143592.53 | 352800000 | 335917998.69 | 133920000 | 126973714.36 |

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 | 3076735.12 | 2192222.60 | 3282014.90 | 2978388.71 | 782645.68 | 731855.78 | 403493.83 | 386043.73 |
| Software | 398272.55 | 371956.61 | 63816.96 | 63062.82 | 978307.10 | 909812.76 | 993827.16 | 813421.29 |
| SDGs | 10408614.20 | 7259957.97 | 11304717.99 | 10743316.34 | 13696299.45 | 12470590.63 | 15185679.01 | 14051263.73 |
| Support for faculty development | 79654.51 | 76468.33 | 145867.33 | 131280.60 | 156529.14 | 140876.22 | 99382.72 | 95407.41 |

| | | | | | | | | |
|------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| R & D | 419619.96 | 298939.45 | 47406.88 | 40244.80 | 39132.28 | 37325.35 | 8745.68 | 8232.36 |
| Industrial Training, Industry expert, | 1438560.46 | 1024935.24 | 1367506.21 | 1302305.34 | 1408762.23 | 1338136.91 | 642012.35 | 603369.56 |
| Miscellaneous Expenses* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 15821456.80 | 11224480.20 | 16211330.27 | 15258598.61 | 17061675.88 | 15628597.65 | 17333140.75 | 15957738.08 |