

## **NATIONAL BOARD OF ACCREDITATION**

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

|                                                              |                                              |
|--------------------------------------------------------------|----------------------------------------------|
| <b>Program Name</b> : Electrical and Electronics Engineering | <b>Discipline</b> : Engineering & Technology |
| <b>Level</b> : Under Graduate                                | <b>Tier</b> : 2                              |
| <b>Application No</b> : 12048                                | <b>Date of Submission</b> : 17-07-2026       |

### **PART A- Profile of the Institute**

|                                                                                        |                                                                  |
|----------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>A1.Name of the Institute</b> : C.ABDUL HAKEEM COLLEGE OF ENGINEERING AND TECHNOLOGY |                                                                  |
| Year of Establishment : NIL                                                            | Location of the Institute: Melvisharam Ranipet Tamil Nadu 632509 |
| <b>A2. Institute Address</b> :HAKEEM NAGAR,MELVISHARAM                                 |                                                                  |
| City:VILLORE                                                                           | State:Tamil Nadu                                                 |
| Pin Code:632509                                                                        | Website:www.cahcet.in                                            |
| Email:CAHCET@REDIFFMAIL.COM                                                            | Phone No(with STD Code):04172-267387                             |
| <b>A3. Name and Address of the Affiliating University (if any):</b>                    |                                                                  |
| Name of the University : NIL                                                           | City: Chennai                                                    |
| State : Tamil Nadu                                                                     | Pin Code: 600025                                                 |
| <b>A4. Type of the Institution</b> : Self-Supported Institute                          |                                                                  |
| <b>A5. Ownership Status</b> : Self financing                                           |                                                                  |

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

- No. of UG programs: **8**
- No. of PG programs: **4**

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 in Computer Applications                                                 | 2008          | --             | Computer Application                                                            |
| 2      | Engineering & Technology | PG               | Applied Electronics                                                             | 2006          | 2026           | Electronics and Communication Engineering                                       |
| 3      | Engineering & Technology | UG               | Artificial Intelligence and Data Science                                        | 2022          | --             | Artificial Intelligence and Data Science                                        |
| 4      | Engineering & Technology | UG               | Civil Engineering                                                               | 2008          | --             | Civil Engineering                                                               |
| 5      | Engineering & Technology | UG               | Computer Science and Engineering                                                | 1998          | --             | Computer Science and Engineering                                                |
| 6      | Engineering & Technology | PG               | Computer Science and Engineering                                                | 2026          | --             | Computer Science and Engineering                                                |
| 7      | Engineering & Technology | UG               | Computer Science and Engineering (Artificial Intelligence and Machine Learning) | 2025          | --             | Computer Science and Engineering (Artificial Intelligence and Machine Learning) |

|    |                          |    |                                            |      |    |                                           |
|----|--------------------------|----|--------------------------------------------|------|----|-------------------------------------------|
| 8  | Engineering & Technology | UG | Electrical and Electronics Engineering     | 1998 | -- | Electrical and Electronics Engineering    |
| 9  | Engineering & Technology | UG | Electronics and Communications Engineering | 2001 | -- | Electronics and Communication Engineering |
| 10 | Engineering & Technology | UG | Information Technology                     | 2001 | -- | Information Technology                    |
| 11 | Engineering & Technology | UG | Mechanical Engineering                     | 1998 | -- | Mechanical Engineering                    |
| 12 | Management               | PG | Master of Business Administration          | 2006 | -- | Management                                |

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

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

| Name of the Department                    | Having Allied Departments | Name of the Program                        | Program Level |
|-------------------------------------------|---------------------------|--------------------------------------------|---------------|
| Electrical and Electronics Engineering    | No                        | Electrical and Electronics Engineering     | UG            |
| Mechanical Engineering                    | No                        | Mechanical Engineering                     | UG            |
| Computer Science and Engineering          | Yes                       | Computer Science and Engineering           | UG            |
| Information Technology                    | Yes                       | Information Technology                     | UG            |
| Electronics and Communication Engineering | No                        | Electronics and Communications 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 | PROGRAM DURATION |
|--------|----------------------------------------|-----------------------|--------------------------------|-------------------|-----------------------------------|---------------------------|----------------|------------------------|--------------------------------------------|-------------------------------------------------------------------|------|------|---------------------------------|------------------|
| 1      | Electrical and Electronics Engineering | UG                    | 1998 / --                      | 60                | Yes                               | 2021                      | 30             | 2021                   | F.No. Southern/1-9323182988/2021/EOA       | Granted accreditation for 3 years for the period (specify period) | 2014 | 2016 | 2                               | 4                |

| SR.NO.                                                                               | PROGRAM NAME | PROGRAM APPLIED LEVEL | YEAR OF START / YEAR OF CLOSED | SANCTIONED INTAKE | INCREASE/DECREASE INTAKE (if any) | YEAR OF INCREASE/DECREASE | CURRENT INTAKE | YEAR OF AICTE APPROVAL | AICTE/COMPETENT AUTHORITY ARROVAL DETAILS | ACCREDITATION STATUS | FROM | TO | NO. OF TIMES PROGRAM ACCREDITED | PROGRAM DURATION |
|--------------------------------------------------------------------------------------|--------------|-----------------------|--------------------------------|-------------------|-----------------------------------|---------------------------|----------------|------------------------|-------------------------------------------|----------------------|------|----|---------------------------------|------------------|
| Sanctioned Intake for Last Five Years for the Electrical and Electronics Engineering |              |                       |                                |                   |                                   |                           |                |                        |                                           |                      |      |    |                                 |                  |
| Academic Year                                                                        |              |                       | Sanctioned Intake              |                   |                                   |                           |                |                        |                                           |                      |      |    |                                 |                  |
| 2025-26                                                                              |              |                       | 30                             |                   |                                   |                           |                |                        |                                           |                      |      |    |                                 |                  |
| 2024-25                                                                              |              |                       | 30                             |                   |                                   |                           |                |                        |                                           |                      |      |    |                                 |                  |
| 2023-24                                                                              |              |                       | 30                             |                   |                                   |                           |                |                        |                                           |                      |      |    |                                 |                  |
| 2022-23                                                                              |              |                       | 30                             |                   |                                   |                           |                |                        |                                           |                      |      |    |                                 |                  |
| 2021-22                                                                              |              |                       | 30                             |                   |                                   |                           |                |                        |                                           |                      |      |    |                                 |                  |
| 2020-21                                                                              |              |                       | 60                             |                   |                                   |                           |                |                        |                                           |                      |      |    |                                 |                  |

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 P MOHAMED SAJID |
| 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)                                                                                                       | 30            | 30              | 30              | 30              | 30              | 60              | 60              |
| N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program | 30            | 17              | 20              | 18              | 10              | 12              | 5               |
| N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats                                                                      | 0             | 6               | 7               | 7               | 5               | 10              | 4               |
| N3=Separate division if any                                                                                                                                                  | 0             | 0               | 0               | 0               | 0               | 0               | 0               |
| N4=Total no. of students admitted in the 1st year via all supernumerary quotas                                                                                               | 0             | 0               | 0               | 0               | 0               | 0               | 0               |
| Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.                                      | 30            | 23              | 27              | 25              | 15              | 22              | 9               |

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)   | 30 | 30 | 0 | 100.00 |
| 2024-25 (CAYm1) | 30 | 17 | 0 | 56.67  |
| 2023-24 (CAYm2) | 30 | 20 | 0 | 66.67  |

Average [ (ER1 + ER2 + ER3) / 3 ] = 74.45≡ 14.00

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

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

| Item                                                                                                                                                                                                                                                                                                         | (2021-22)<br>LYG | (2020-21)<br>LYGm1 | (2019-20)<br>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). | 33.00            | 66.00              | 64.00              |
| B=No. of students who graduated from the program in the stipulated course duration                                                                                                                                                                                                                           | 11.00            | 9.00               | 8.00               |
| Success Rate (SR)= (B/A) * 100                                                                                                                                                                                                                                                                               | 33.33            | 13.64              | 12.50              |

Average SR of three batches ((SR\_1+ SR\_2+ SR\_3)/3): 19.82

#### 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) | 6.04             | 5.01             | 6.04              |
| Y=Total no. of successful students                                                                                                                                     | 16.00            | 15.00            | 18.00             |
| Z=Total no. of students appeared in the examination                                                                                                                    | 17.00            | 20.00            | 18.00             |
| API [X*(Y/Z)]                                                                                                                                                          | 5.68             | 3.75             | 6.04              |

Average API[ (AP1+AP2+AP3)/3 ] : 5.16

#### 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) | 6.79              | 6.65              | 6.67              |
| Y=Total no. of successful students                                                                                                                                     | 21.00             | 25.00             | 15.00             |
| Z=Total no. of students appeared in the examination                                                                                                                    | 22.00             | 25.00             | 15.00             |
| API [ X * (Y/Z) ]                                                                                                                                                      | 6.48              | 6.65              | 6.67              |

Average API [ (AP1 + AP2 + AP3)/3 ] : 6.60

#### 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) | 6.69            | 6.42            | 6.58            |
| Y=Total no. of successful students                                                                                                                                     | 22.00           | 15.00           | 21.00           |

|                                                     |       |       |       |
|-----------------------------------------------------|-------|-------|-------|
| Z=Total no. of students appeared in the examination | 25.00 | 15.00 | 21.00 |
|-----------------------------------------------------|-------|-------|-------|

Average API [ (AP1 + AP2 + AP3)/3 ] : 5.61

#### 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           | 33.00         | 66.00          | 64.00          |
| X=No. of students placed                       | 11.00         | 19.00          | 6.00           |
| Y=No. of students admitted to higher studies   | 0.00          | 0.00           | 0.00           |
| Z= No. of students taking up entrepreneurship  | 1.00          | 0.00           | 1.00           |
| Placement Index(P) = (((X + Y + Z)/FS) * 100): | 36.36         | 28.79          | 10.94          |

Average Placement Index = (P\_1 + P\_2 + P\_3)/3: 25.36 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 M SASI KUMAR       | XXXXXXXX30N | Ph.D           | SATHYABAMA UNIVERSITY                                            | POWER ELECTRONICS & DRIVES   | 10/05/2023                          | 3.2                                      | Professor                                       | Professor           | 10/05/2023                                                            | Regular                                           | Yes                        |                                | No      |
| 2     | Dr P MOHAMED SAJID    | XXXXXXXX15N | Ph.D           | Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya University | Medical Image Processing     | 22/06/2012                          | 14                                       | Assistant Professor                             | Associate Professor | 01/12/2023                                                            | Regular                                           | Yes                        |                                | Yes     |
| 3     | Mrs M DIVIYA BHARATHI | XXXXXXXX97J | M.E.           | Anna University                                                  | Power Electronics and Drives | 02/07/2018                          | 8                                        | Assistant Professor                             | Assistant Professor |                                                                       | Regular                                           | Yes                        |                                | No      |
| 4     | Mr S SATHISH KUMAR    | XXXXXXXX01H | M.E.           | Anna University                                                  | Power Systems Engineering    | 02/08/2023                          | 2.11                                     | Assistant Professor                             | Assistant Professor |                                                                       | Regular                                           | Yes                        |                                | No      |
| 5     | Mr S MOHITH           | XXXXXXXX38G | M.E.           | Anna University                                                  | Solar Energy                 | 02/08/2023                          | 2.11                                     | Assistant Professor                             | Assistant Professor |                                                                       | Regular                                           | Yes                        |                                | No      |
| 6     | Mrs M KAYALVIZHI      | XXXXXXXX98H | M.E.           | Anna University                                                  | Power Electronics and Drives | 01/07/2021                          | 5                                        | Assistant Professor                             | Assistant Professor |                                                                       | Regular                                           | Yes                        |                                | No      |

|   |               |           |        |                   |                     |            |     |                     |                     |  |         |    |            |    |
|---|---------------|-----------|--------|-------------------|---------------------|------------|-----|---------------------|---------------------|--|---------|----|------------|----|
| 7 | Mrs M DHARANI | XXXXXX22B | M.Tech | Dr MGR University | Applied Electronics | 01/03/2024 | 1.4 | Assistant Professor | Assistant Professor |  | Regular | No | 30/07/2025 | 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 Department0

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

| Description                                                                         | CAY(2025-26)       | CAYm1 (2024-25)    | CAYm2 (2023-24)    |
|-------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|
| UG1.B                                                                               | 33                 | 33                 | 33                 |
| UG1.C                                                                               | 33                 | 33                 | 33                 |
| UG1.D                                                                               | 33                 | 33                 | 66                 |
| <b>UG1: Electrical and Electronics Engineering</b>                                  | <b>99</b>          | <b>99</b>          | <b>132</b>         |
| DS=Total no. of students in all UG and PG programs in the Department                | 99                 | 99                 | 132                |
| 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)          | <b>S1= 99</b>      | <b>S2= 99</b>      | <b>S3= 132</b>     |
| DF=Total no. of faculty members in the Department                                   | 6                  | 7                  | 6                  |
| 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)   | <b>F1= 6</b>       | <b>F2= 7</b>       | <b>F3= 6</b>       |
| FF=The faculty members in F who have a 100% teaching load in the first-year courses | 0                  | 0                  | 0                  |
| Student Faculty Ratio (SFR)=S/(F-FF)                                                | <b>SFR1= 16.50</b> | <b>SFR2= 14.14</b> | <b>SFR3= 22.00</b> |
| Average SFR for 3 years                                                             | <b>SFR= 17.55</b>  |                    |                    |

## 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)   | 2 | 4 | 4.00 | 22.50                               |
| 2024-25(CAYm1) | 2 | 5 | 4.00 | 25.00                               |
| 2023-24(CAYm2) | 2 | 4 | 6.00 | 15.00                               |

**C4. Faculty Cadre Proportion**

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

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

| Year    | Professors   |               | Associate Professors |               | Assistant Professors |               |
|---------|--------------|---------------|----------------------|---------------|----------------------|---------------|
|         | Required RF1 | Available AF1 | Required RF2         | Available AF1 | Required RF3         | Available AF3 |
| 2025-26 | 1.00         | 1.00          | 1.00                 | 1.00          | 3.00                 | 4.00          |
| 2024-25 | 1.00         | 1.00          | 1.00                 | 1.00          | 3.00                 | 5.00          |
| 2023-24 | 1.00         | 1.00          | 1.00                 | 0.00          | 4.00                 | 5.00          |
| Average | RF1=1.00     | AF1=1.00      | RF2=1.00             | AF2=0.67      | RF2=3.33             | AF2=4.67      |

**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 mohamed Husain.S | Lead Engineer   | Khatib &Alami       | Power system Engineering | 30.00                |
| 2    | Mr umapathi.D       | senior Engineer | Harnitha Renewables | Renewable Energy system  | 30.00                |

(CAYm2)

| S.No | Name of the Person | Designation     | Organization        | Name of the Course        | No. of hours handled |
|------|--------------------|-----------------|---------------------|---------------------------|----------------------|
| 1    | Mr Umapathi        | Senior Engineer | Harnitha Renewables | Renewable Energy system   | 30.00                |
| 2    | Mr mohamed Hussain | Lead Engineer   | Khatib & Alami      | protection and switchgear | 30.00                |

(CAYm3)

| S.No | Name of the Person | Designation     | Organization        | Name of the Course               | No. of hours handled |
|------|--------------------|-----------------|---------------------|----------------------------------|----------------------|
| 1    | Mr umapathi        | Senior Engineer | Harnitha Renewables | solar system and its application | 30.00                |
| 2    | Mr Mohamed Hussain | lead Engineer   | Khatib & Alami      | protection and switchgear        | 30.00                |

#### C6. Academic Research

Table No. C6.1: Faculty publication details.

| S.No. | Item                                             | 2024-25<br>(CAYm1) | 2023-24<br>(CAYm2) | 2022-23<br>(CAYm3) |
|-------|--------------------------------------------------|--------------------|--------------------|--------------------|
| 1     | No. of peer reviewed journal papers published    | 4                  | 4                  | 1                  |
| 2     | No. of peer reviewed conference papers published | 4                  | 3                  | 1                  |
| 3     | No. of books/book chapters published             | 2                  | 2                  | 0                  |

#### C7. Sponsored Research Project

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

(CAYm1)

(CAYm2)

(CAYm3)

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

**Note\*:**

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

#### C8. Consultancy Work

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

(CAYm1)

| 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)<br>i.e. 15,25,000=15.25 |
|-----------------|--------------------|------------------------------------------------|------------------------------------|----------------------------|-------------------------|--------------------------------------|
| p.mohamed sajid | S.Sathish kumar    | EEE                                            | MPPT-Based Solar Charge Controller | Harnitha Renwables         | 2 month                 | 225000.00                            |
|                 |                    |                                                |                                    |                            |                         | Amount received (Rs.):225000.00      |

(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)<br>i.e. 15,25,000=15.25 |
|-----------------|--------------------|------------------------------------------------|---------------------------------------|----------------------------|-------------------------|--------------------------------------|
| P.Mohamed sajid | S.Sathish Kumar    | EEE                                            | Smart Solar Battery Management System | Harnitha Renewables        | 1 month                 | 50000.00                             |
|                 |                    |                                                |                                       |                            |                         | Amount received (Rs.):50000.00       |

(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)<br>i.e. 15,25,000=15.25 |
|-------------------|--------------------|------------------------------------------------|--------------------------------------------|----------------------------|-------------------------|--------------------------------------|
| Dr selvaganapathi | Mr P.Mohanavel     | EEE                                            | Solar Microgrid with Smart Load Management | Harnitha Renewables        | 1 month                 | 50000.00                             |
|                   |                    |                                                |                                            |                            |                         | Amount received (Rs.):50000.00       |

**Total amount (Lacs) received for the past 3 years: 325000.00**

**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)<br>i.e. 15,25,000=15.25 | Amount Utilized(Lacs)<br>i.e. 15,25,000=15.25 | Outcomes of the project      |
|--------------------|-----------------------------------------------------|-------------------------|--------------------------------------|-----------------------------------------------|------------------------------|
| Mr.S.Sathish Kumar | Automatic solar multi street Lighting system        | 1 Month                 | 35000.00                             | 35000.00                                      | Green Energy                 |
| Mr S.Sathish Kumar | Design and Implementation of solar power Class room | 1 month                 | 40000.00                             | 40000.00                                      | Green energy                 |
| Mr S.Sathish Kumar | solar powered grass cutter project                  | 1 month                 | 25000.00                             | 25000.00                                      | Renewable Energy utilization |
|                    |                                                     |                         | Amount received (Rs.): 100000.00     |                                               |                              |

(CAYm2)

| Faculty name       | Project title/ Support for Activity | Duration of the project | Amount(Lacs)<br>i.e. 15,25,000=15.25 | Amount Utilized(Lacs)<br>i.e. 15,25,000=15.25 | Outcomes of the project |
|--------------------|-------------------------------------|-------------------------|--------------------------------------|-----------------------------------------------|-------------------------|
| Mr S.Sathish Kumar | water Fountain using solar system   | 1 month                 | 30000.00                             | 30000.00                                      | Green Energy            |
|                    |                                     |                         | Amount received (Rs.): 30000.00      |                                               |                         |

(CAYm3)

| Faculty name   | Project title/ Support for Activity | Duration of the project | Amount(Lacs)<br>i.e. 15,25,000=15.25 | Amount Utilized(Lacs)<br>i.e. 15,25,000=15.25 | Outcomes of the project      |
|----------------|-------------------------------------|-------------------------|--------------------------------------|-----------------------------------------------|------------------------------|
| Mr P.Mohanavel | E-Loader Design                     | 3 month                 | 50000.00                             | 50000.00                                      | Load vehicle for college use |
|                |                                     |                         | Amount received (Rs.): 50000.00      |                                               |                              |

**Total amount (Lacs) received for the past 3 years : 180000.00**

## 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      | Electric Circuit lab //                       | 30                                        | Desktop Computer //                                                                                                                                     | 3 hours                                                                  | Mr M.Suhail Ahmed           | Technician        | BCA           |
| 2      | Electrical Machines lab -1 Laboratory //      | 30                                        | Shunt Motor Series Motor Compound Motor Shunt Generator Synchronous Generator Three phase induction motor Single phase transformer //                   | 3 hours                                                                  | Mr M.H Mubeenur Rahm:       | Senior Technician | DEEE          |
| 3      | Electronic Devices and Circuits Laboratory // | 30                                        | CRO, function generator and regulated power supplies //                                                                                                 | 3 hours                                                                  | Mr M.H Mubeenur Rahm:       | Senior Technician | DEEE          |
| 4      | Electrical Machines lab-2 Laboratory //       | 30                                        | Single phase Induction motor Three phase induction motor Single phase transformer Alternator //                                                         | 3 hours                                                                  | Mr M.H Mubeenur Rahm:       | Senior Technician | DEEE          |
| 5      | Linear Integrated Circuits Laboratory //      | 30                                        | CRO, function generator and regulated power supplies IC Trainer Kit //                                                                                  | 3 hours                                                                  | Mr M.Suhail Ahmed           | Technician        | BCA           |
| 6      | Microprocessor and Microcontroller //         | 30                                        | 8086 microprocessor kit 8051 Microcontroller kit //                                                                                                     | 3 hours                                                                  | Mr M.Suhail Ahmed           | Technician        | BCA           |
| 7      | Power Electronics lab //                      | 30                                        | Single phase half and fully controlled Bridge converter single phase cyclo converter single phase parallel inverter IGBT module Buck-Boost Converter // | 3 hours                                                                  | Mr M.H Mubeenur Rahm:       | Senior Technician | DEEE          |
| 8      | Control and Instrumentation lab //            | 30                                        | Desktop Computer //                                                                                                                                     | 3 hours                                                                  | Mr M.Suhail Ahmed           | Technician        | BCA           |
| 9      | Power system simulation lab //                | 30                                        | Desktop Computer //                                                                                                                                     | 3 hours                                                                  | Mr M.H Mubeenur Rahm:       | Senior Technician | DEEE          |

## D2. Safety Measures in Laboratories

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

| Sr. No | Laboratory Name                                | Safety Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Electrical Machines lab //                     | 1. Wear the proper shoes 2. Wear the apron before entering the lab 3. Don't touch the live terminals 4. Don't cut the wire with teeth 5. Maintain the minimum distance while the machine is ON 6. Keep away unwanted wires from your panel 7. Insert proper fuse ratings 8. Before switch on the power supply check the machine loading condition 9. Check the connections before switch ON the supply 10. After completion of experiment immediately switch OFF the panel board |
| 2      | Electrical Circuits & power Electronics lab // | 1. Wear the proper shoes 2. Wear the apron before entering the lab 3. Don't touch the live terminals 4. Don't cut the wire with teeth 5. Keep away unwanted wires from your panel 6. Insert proper fuse ratings 7. Before switch on the power supply check the machine loading condition 8. Check the connections before switch ON the supply                                                                                                                                    |

|   |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3 | Linear Integrated Circuits Lab            | 1. Wear the proper shoes 2. Wear the apron before entering the lab 3. Don't touch the live terminals 4. Don't cut the wire with teeth 5. Maintain the minimum distance while the machine is ON 6. Keep away unwanted wires from your panel 7. Insert proper fuse ratings 8. Before switch on the power supply check the machine loading condition 9. Check the connections before switch ON the supply 10. After completion of experiment immediately switch OFF the panel board |
| 4 | Microprocessor and Microcontroller Lab    | 1. Wear the proper shoes 2. Wear the apron before entering the lab 3. Don't touch the live terminals 4. Don't cut the wire with teeth 5. Keep away unwanted wires from your panel                                                                                                                                                                                                                                                                                                |
| 5 | Engineering Practice lab / Makerspace Lab | 1. Wear the proper shoes 2. Wear the apron before entering the lab 3. Don't touch the live terminals 4. Don't cut the wire with teeth 5. Maintain the minimum distance while the machine is ON 6. Keep away unwanted wires from your panel 7. Insert proper fuse ratings 8. Before switch on the power supply check the machine loading condition 9. Check the connections before switch ON the supply 10. After completion of experiment immediately switch OFF the panel board |
| 6 | Power Electronics lab                     | 1. Wear the proper shoes 2. Wear the apron before entering the lab 3. Don't touch the live terminals 4. Don't cut the wire with teeth 5. Maintain the minimum distance while the machine is ON 6. Keep away unwanted wires from your panel 7. Check the connections before switch ON the supply 8. After completion of experiment immediately switch OFF the panel board                                                                                                         |
| 7 | Power system simulation lab               | 1. Check the connections before switch ON the supply 2. After completion of experiment immediately switch OFF the panel board                                                                                                                                                                                                                                                                                                                                                    |
| 8 | Project lab                               | 1. Wear the proper shoes 2. Wear the apron before entering the lab 3. Don't touch the live terminals 4. Don't cut the wire with teeth 5. Keep away unwanted wires from your panel                                                                                                                                                                                                                                                                                                |

### D3. Project Laboratory/Research Laboratory

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|  |
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## PART E: First Year faculty and financial Resources

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

### E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

| Year           | Sanctioned intake of all UG programs (S4) | No. of required faculty (RF4= S4/20) | No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1) | No. of faculty members in Engineering Science Courses (NS2) | Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage= ((NS1*0.8) +(NS2*0.2))/RF |
|----------------|-------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 2023-24(CAYm2) | 480                                       | 24                                   | 20                                                                                                                  | 11                                                          | 76                                                                                                                                |
| 2024-25(CAYm1) | 480                                       | 24                                   | 20                                                                                                                  | 18                                                          | 82                                                                                                                                |
| 2025-26(CAY)   | 540                                       | 27                                   | 21                                                                                                                  | 21                                                          | 78                                                                                                                                |

### 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 //                  | 40000000            | 39117864                        | 25000000            | 24912355                        | 15000000            | 14254000                        | 15000000            | 13538000                        |
| Library //                                  | 550000              | 511486                          | 450000              | 400586                          | 450000              | 448849                          | 400000              | 383682                          |
| Laboratory equipment //                     | 40000000            | 39203013                        | 20000000            | 19383406                        | 14000000            | 13255705                        | 10000000            | 8600500                         |
| Teaching and non-teaching staff salary //   | 65000000            | 63890802                        | 60000000            | 58762939                        | 60000000            | 57200000                        | 60000000            | 57094328                        |
| Outreach Programs //                        | 2500000             | 2435995                         | 1800000             | 1675056                         | 550000              | 534812                          | 1000000             | 875000                          |
| R&D //                                      | 2500000             | 2609000                         | 3000000             | 2885500                         | 2500000             | 2294000                         | 800000              | 1960000                         |
| Training, Placement and Industry linkage // | 6000000             | 5500020                         | 4500000             | 4250060                         | 2500000             | 2400000                         | 2800000             | 2654200                         |
| SDGs //                                     | 4000000             | 3850135                         | 4000000             | 3868078                         | 2000000             | 1864000                         | 1500000             | 1250000                         |
| Entrepreneurship //                         | 2500000             | 2488000                         | 1500000             | 1250022                         | 1000000             | 625000                          | 800000              | 780580                          |
| Others, specify //                          | 10000000            | 8666160                         | 7000000             | 6463261                         | 5000000             | 4214875                         | 6000000             | 4521658                         |
| <b>Total</b>                                | <b>173050000</b>    | <b>168272475</b>                | <b>127250000</b>    | <b>123851263</b>                | <b>103000000</b>    | <b>97091241</b>                 | <b>98300000</b>     | <b>91657948</b>                 |

**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 //                             | 2000000             | 1866670                         | 825000              | 806711                          | 500000              | 495179                          | 300000              | 292732                          |
| Software //                                         | 100000              | 97195                           | 150000              | 134037                          | 50000               | 26062                           | 40000               | 15407                           |
| SDGs //                                             | 150000              | 181981                          | 150000              | 135847                          | 100000              | 73296                           | 50000               | 44785                           |
| Support for faculty development //                  | 60000               | 58000                           | 50000               | 47500                           | 50000               | 46800                           | 40000               | 38000                           |
| R & D //                                            | 200000              | 200000                          | 250000              | 250000                          | 200000              | 168000                          | 200000              | 148000                          |
| Industrial Training, Industry expert, Internship // | 500000              | 473826                          | 300000              | 293164                          | 125000              | 118949                          | 125000              | 123061                          |

|                                                                                                           |                |                |                |                |                |                |                |                |
|-----------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Miscellaneous Expenses*  | 500000         | 497073         | 350000         | 326991         | 200000         | 165737         | 400000         | 345153         |
| <b>Total</b>                                                                                              | <b>3510000</b> | <b>3374745</b> | <b>2075000</b> | <b>1994250</b> | <b>1225000</b> | <b>1094023</b> | <b>1155000</b> | <b>1007138</b> |