

**SDM College of Engineering and Technology
Dhavalagiri, Dharwad-580002**

Department of Information Science and Engineering

STRATEGIC PLAN (2023-24) IMPLEMENTATION REPORT



[2023-24]

1st July 2023 to 30th June 2024

Date of Publication: 1st July 2024

Reference: 5 Year Plan 2022-23 to 2026-27

Introduction:

The purpose of this document is to record the progress of the Department based on their stated strategic plan for the year – **2023-24** (starting from 1st July and ending by 30th June).

In charge person indicted against each perspective/ Key areas have participated in the audit process and the records maintained by them are seen thoroughly by the audit team.

Audit Team:

1. **Chairman:** Principal, SDMCET, Dharwad
2. **Members:**
 - a) Dean Academic Program
 - b) Dean R & D
 - c) IQAC Coordinator – Member Secretary

Institutional Vision and Mission:

VISION:

To develop **competent** professionals with **human values**.

MISSION:

M1. To have **contextually relevant** Curricula.

M2. To promote **effective Teaching Learning** Practices supported by **Modern Educational Tools and Techniques**.

M3. To enhance **Research Culture**.

M4. To involve the **Industrial Expertise** for connecting Classroom contents to real-life situations.

M5. To inculcate **Ethics and soft-skills** leading to overall personality development.

Additional Focus:

F1: Curriculum relevance- **M1**

F2: Academic/ Exam results- **M1, M2, M4**

F3: Research papers, Sponsored Projects, Root cause analysis for rejected papers and filling gap.- **M3**

F4: Value additions: Teaching, Soft skills, Use of ICT / Presentation, Discussion Groups

(Communication skills)- **M2 & M5**

F5: Community oriented services- **M3 & M5**

F6: Placement.

F7: Accreditation and Ranking: NBA, NAAC and NIRF - **M1 to M5 & Establishment of strong IQAC to support quality checks and Institutional repository.**

F8: National Educational Policy- NEP-2020 – **M1 to M5. (Experiential Learning)**

Contact Details:

1. Dr. Jagadeesh D Pujari , **Professor and Head**, Department of **Information Science and Engineering**, SDM College of Engineering and Technology, Dharwad-580002.

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2. Dr. Sachidanand S Joshi, **Faculty I/C- Strategic Plan**, Department of **Information Science and Engineering**, SDM College of Engineering and Technology, Dharwad-580002.

Email: sachinjoshi055@gmail.com

Mobile: 9880417014

| Status as on MARCH 2024 - Year 2023-24 | | | | | |
|---|--|---|------------------------------|--------------------------------------|---|
| Focus [1] | Perspective/ Key Areas [2] | PLANNING [3] | Outcomes achieved [4] | Reasons for any deviation [5] | Further action plan, if applicable [6] |
| F1 / M1 Curriculum Relevance | Re-establishing the relevance of critical thinking in Course outcomes and raising learning levels focusing on Experiential learning of NEP-2020. | Activity-1: BOS Meet[May-2024] Outcome/Target: <ul style="list-style-type: none"> Curriculum Refinement In-charge Faculty: Dr. Rajashekarppa M B | Yet to complete | | |
| | Re-establishing the relevance of Program Articulation Matrix-PAM | | | | |
| | Conducting internal and External Audits | Activity-1: Internal Audit Outcome/Target: <ul style="list-style-type: none"> To verify the last year outcomes and progress by College level IQAC Coordinator. In-charge Faculty: Dr. Anita Dixit | Yet to complete | | |
| | | Activity-2: External audit Outcome/Target: <ul style="list-style-type: none"> To verify the last year outcomes and progress. In-charge Faculty: Dr. Anita Dixit | Yet to complete | | |

| Status as on MARCH 2024 - Year 2023-24 | | | | | |
|--|--|---|--|--------------------------------------|---|
| Focus [1] | Perspective/ Key Areas [2] | PLANNING [3] | Outcomes achieved [4] | Reasons for any deviation [5] | Further action plan, if applicable [6] |
| F2 M1, M2, M4 Exam Results | Bridge Courses | Activity-1: Bridge Course Advanced Concepts in C programming. Outcome/Target: • Enhancement of Programming Skill sets. In-charge Faculty: Dr. J. D. Pujari | Yet to complete | | |
| | | Activity-2: Bridge Course HTML, CSS, JS, PHP basics, latest trending tools. Outcome/Target: • Enhancement of Programming Skill sets. In-charge Faculty: Prof.Pratibha Badiger | Yet to complete | | |
| | Tutorials for complex courses | Activity-1: Data Structure and FAFL Outcome/Target: • Classes conducted report and the change in observation improved. In-charge Faculty: Dr. J. D. Pujari Dr.Pushpalata S N | Not done | | |
| | Strengthening Experiential Learning component | Activity-1: Project-based learning – i) Projects on Digital circuits lab –III Sem-2023-24 ii) Project implementation using Micro-controller- IV Semester-2023-24 Outcome/Target: • List of projects implementation. In-charge Faculty: Dr. Deepa Bendigeri Dr. Sachidanand S Joshi | i) Projects on Digital circuit's lab conducted for ISE 3 rd semester students-Students got familiar with Digital circuits concepts. ii) Project implementation using Micro-controller –Pending | | |
| | | Activity-2: | Under Process | | |

| | | | | | |
|--|--------------------------------------|--|---|--|--|
| | | <p>Project based teaching in IOT and Software engineering.</p> <ul style="list-style-type: none"> • IoT-Present 6th Sem(2023-24) • Software Engineering-5th Sem(2023-24) <p>Outcome/Target:</p> <ul style="list-style-type: none"> • List of projects implementation. <p>In-charge Faculty: Dr. Pushpalatha N Dr.S R Biradar</p> | | | |
| | | <p>Activity-3: Case study based learning for storage management, Big Data Analytics</p> <p>Outcome/Target:</p> <ul style="list-style-type: none"> • Case studies on different problem statements. <p>In-charge Faculty: Dr.Anita Dixit Dr.Rajashekappa</p> | <ul style="list-style-type: none"> • Different case studies are given to students to understand the concepts more clearly. • Students got more knowledge on different concepts of BDA and Storage management. | | |
| | Industry Connectivity for Class room | <p>Activity-1: Assistance of industry mentor for students – 3rd and 4th year students.</p> <p>Outcome/Target:</p> <ul style="list-style-type: none"> • Students will get familiar with industry related problem statements and skills. <p>In-charge Faculty: Prof.Varsha S Jadhav</p> | <ul style="list-style-type: none"> • Students got familiarity with industry related problem statements and skills • Placement is improved. | | |
| | Others, if any | <p>Activity-1: Peer learning for III & V semester</p> <p>Outcome/Target:</p> <ul style="list-style-type: none"> • To encourage cooperation and social skills in students • To acquire knowledge by actively supporting other students • To get Exposure to and an increase in understanding of diverse perspectives <p>In-charge Faculty: Prof.Arati S Nayak</p> | <ul style="list-style-type: none"> • Peer learning encouraged cooperation and social skills in students and helps them acquire knowledge by actively supporting other students. | | |

| | | | Status as on MARCH 2024 - Year 2023-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Focus [1] | Perspective/ Key Areas [2] | PLANNING [3] | Outcomes achieved [4] | Reasons for any deviation [5] | Further action plan, if applicable [6] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F3 M3 Research | Quality assessment of all research proposals | Activity-1: Research Faculty committee will be formed to check the quality of the submissions Outcome/Target: <ul style="list-style-type: none"> Quality of Research proposal submission Quality of Paper submissions In-charge Faculty: Dr.Pushpalata S N | Pending | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | IPR: Copyrights and Patents Paper Publications Funded Projects | Activity-1: Research Faculty committee will be formed to check copyright, patent, paper submissions Outcome/Target: <ol style="list-style-type: none"> Paper Submission Book chapters Proposals (FDP) In-charge Faculty: Dr. Pushpalatha S N The following faculty have planned to publish the Journal in SCOPUS JDP,SRB,,RMB,PSN,VSJ,DB,AD,AN,SSJ | Granted Patent-01 <ul style="list-style-type: none"> Prof.V K Parvati Dr.Rajashekarappa M B Research Publications : Total-20 SCOPUS=07 SCIE=00 WOS=02 UGC=00 NON-INDEXED=11 <u>Papers published during the academic year 2023-24(July 2023-till date)</u> <table border="1"> <thead> <tr> <th>Faculty</th> <th>SCOPUS</th> <th>SCIE</th> <th>WOS</th> <th>UGC</th> <th>NON-INDEXED</th> </tr> </thead> <tbody> <tr> <td>Dr.J.D.Pujari</td> <td>2</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Dr.S.R..Biradar</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>1</td> </tr> <tr> <td>Prof.Vasudev Parvati</td> <td>2</td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>Dr.Pushpalata N</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>1</td> </tr> <tr> <td>Mrs.Varsha J</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>2</td> </tr> <tr> <td>Dr.Deepa Bendigeri</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>3</td> </tr> <tr> <td>Dr.Anita Dixit</td> <td>1</td> <td>-</td> <td>-</td> <td>-</td> <td>1</td> </tr> <tr> <td>Ms.Arati N</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>2</td> </tr> <tr> <td>Dr S S Joshi</td> <td>-</td> <td></td> <td>1</td> <td>-</td> <td>1</td> </tr> <tr> <td>Dr.Rajashekarappa</td> <td>2</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Prof.Pratibha Badiger</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Prof.Tanweer Ahmed</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> | Faculty | SCOPUS | SCIE | WOS | UGC | NON-INDEXED | Dr.J.D.Pujari | 2 | - | - | - | - | Dr.S.R..Biradar | - | - | - | - | 1 | Prof.Vasudev Parvati | 2 | | 1 | | | Dr.Pushpalata N | - | - | - | - | 1 | Mrs.Varsha J | - | - | - | - | 2 | Dr.Deepa Bendigeri | - | - | - | - | 3 | Dr.Anita Dixit | 1 | - | - | - | 1 | Ms.Arati N | - | - | - | - | 2 | Dr S S Joshi | - | | 1 | - | 1 | Dr.Rajashekarappa | 2 | - | - | - | - | Prof.Pratibha Badiger | - | - | - | - | - | Prof.Tanweer Ahmed | - | - | - | - | - | | |
| | Faculty | SCOPUS | SCIE | WOS | UGC | NON-INDEXED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr.J.D.Pujari | 2 | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr.S.R..Biradar | - | - | - | - | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prof.Vasudev Parvati | 2 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr.Pushpalata N | - | - | - | - | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mrs.Varsha J | - | - | - | - | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr.Deepa Bendigeri | - | - | - | - | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr.Anita Dixit | 1 | - | - | - | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ms.Arati N | - | - | - | - | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr S S Joshi | - | | 1 | - | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr.Rajashekarappa | 2 | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prof.Pratibha Badiger | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prof.Tanweer Ahmed | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Others- if any | | | <ul style="list-style-type: none"> Final year students (2023) project approved under KSCST, under the guidance of Dr.J D Pujari. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Status as on MARCH 2024 - Year 2023-24

| Focus [1] | Perspective/ Key Areas [2] | PLANNING [3] | Outcomes achieved [4] | Reasons for any deviation [5] | Further action plan, if applicable [6] |
|---|----------------------------------|---|---|--|---|
| F4 M2 & M5 Value additions | Learning for Placement | Activity-1: Aptitude Training under C-III Outcome/Target: <ul style="list-style-type: none"> Knowledge on numerical problem solving, and reasoning. In-charge Faculty: Dr. Sachidanand S Joshi | <ul style="list-style-type: none"> Aptitude training, in Collaboration with CIII, is conducted for 6th semester students. The list and details in the form of booklet are maintained in the department. The summary list is enclosed here with report. | | |
| | | Activity-2: C-III Training on “Data Science” for upcoming 6 th Semester students Outcome/Target: <ul style="list-style-type: none"> Students will get more Practical Knowledge on data science In-charge Faculty: Dr. Sachidanand S Joshi | <ul style="list-style-type: none"> C-III Training is conducted on 18-20 march 2024. Students got knowledge about different concepts of Data Science and App development. | | |
| | | Activity-3: Mock Interview Outcome/Target: <ul style="list-style-type: none"> To help them to get a better understanding of the procedures of recruitment process. In-charge Faculty: Ms. Arati Nayak | <ul style="list-style-type: none"> Mock interviews were held on December 27-29, 2023, for 5th semester students by already placed 7th semester students. Students are familiar with the processes involved in campus recruitment. | | |
| | | Activity-4: Project based Learning –DBMS Outcome/Target: Student will get more knowledge in database concepts In-charge Faculty: Dr. Anita Dixit | <ul style="list-style-type: none"> Placement is improved | | |
| | Soft Skills | Activity-1: V Semester: training session on Soft Skills through CIII Outcome/Target: <ul style="list-style-type: none"> To improve the communication, leadership and problem solving skills of students. In-charge Faculty: | <ul style="list-style-type: none"> Improved communication, leadership and problem solving skills of students. | | |

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|--|--------------------------|--|---|--|--|
| | | Dr. Sachidanand S Joshi | | | |
| | Discussion Groups | Activity-1: Mock interview including training on Group discussion Outcome/Target: <ul style="list-style-type: none"> • Communication Skill In-charge Faculty: Ms. Arati Nayak | <ul style="list-style-type: none"> • Group discussion is a part of Mock interviews were held on December 27-29, 2023, for 5th semester students by already placed 7th semester students. | | |
| | Others- if any | Activity-1: Massive Open Online Courses (MOOCs) Outcome/Target: <ul style="list-style-type: none"> • Learning and up skilling • Its free or much cheaper than traditional education • Access to lectures from some of the top instructors and thought leaders of the world. In-charge Faculty: Dr. S. R. Biradar | <ul style="list-style-type: none"> • MOOC Awareness program will be conducted to encourage more faculty and students across Department and Colleges to take-up MOOC Courses. • Free online courses provide an affordable and flexible way to learn new skills and study new and emerging topics. • Learning from NPTEL, Udacity, Coursera, EDX from top university and industry experts. • www.nptel.ac.in, www.edx.org, www.coursera.org, www.udacity.com | | |

Status as on MARCH 2024 - Year 2023-24

| Focus [1] | Perspective/ Key Areas [2] | PLANNING [3] | Outcomes achieved [4] | Reasons for any deviation [5] | Further action plan, if applicable [6] |
|--|-------------------------------|--|---|--|---|
| <p>F5 Community Oriented Services</p> <p>M3 & M5</p> | <p>Awareness Program</p> | <p>Activity-1: Awareness Program by faculty Outcome/Target:</p> <ul style="list-style-type: none"> To visit nearby villages to bring awareness on health and career opportunity and among women. <p>In-charge Faculty: Department Lady faculty</p> | <ul style="list-style-type: none"> Faculty members from the Department of Information Science and Engineering had been to Ambolli on 25th January. Faculty addressed the village people about hygiene maintenance, and Diseases awareness without cleanliness etc. | | |
| | | <p>Activity-2: Awareness Program by faculty Outcome/Target:</p> <ul style="list-style-type: none"> To visit nearby villages to bring awareness on digital literacy among people <p>In-charge Faculty: Department faculty</p> | <ul style="list-style-type: none"> Faculty members from the Department of Information Science and Engineering visited Kogilgere in Alnavar Taluk of Dharwad District on 20/04/2023. Faculty addressed the village people about mobile/computer literacy. | <ul style="list-style-type: none"> | |
| | | <p>Activity-3: Field Visit for students Outcome/Target:</p> <ul style="list-style-type: none"> Field visit enhance classroom learning more effective to connect to real world <p>In-charge Faculty: Prof.Tanweer Ahmed</p> | <ul style="list-style-type: none"> Faculty of ISE and students visited Ambolli village near Alnavar on December 8th 2023. The main objective of conducting of a field visit is to collect detailed information of the problems faced by the Villagers. Students addressed the village people about hygiene maintenance, mobile/computer literacy and Diseases awareness without cleanliness etc. | <ul style="list-style-type: none"> | |

| Status as on MARCH 2024 - Year 2023-24 | | | | | |
|---|---------------------------------------|---------------------|--|--------------------------------------|---|
| Focus [1] | Perspective/ Key Areas [2] | PLANNING [3] | Outcomes achieved [4] | Reasons for any deviation [5] | Further action plan, if applicable [6] |
| F6 Placement | No. of Offers | | No. of Offers=42 | | |
| | No. of students getting Placed | | 27 | | |
| | pay packages being offered | | | | |
| | MoUs | - | | | |
| | Internship | | Documented and maintained in the department. | | |
| | Others- if any | | | | |

| Status as on MARCH 2024 - Year 2023-24 | | | | | |
|---|-----------------------------------|---|--|--------------------------------------|---|
| Focus [1] | Perspective/ Key Areas [2] | PLANNING [3] | Outcomes achieved [4] | Reasons for any deviation [5] | Further action plan, if applicable [6] |
| F7 Accreditation and Ranking | NBA | Activity-1: NBA preparedness- One day review meeting / Monthly review meeting Outcome/Target: <ul style="list-style-type: none"> To prepare the incremental SAR. In-charge Faculty: Prof. Arati S nayak | One day review meeting is conducted on 18-02-2024 and document is maintained regarding action plan of Previous NBA Visit. | | |
| | NAAC | Activity-1: NAAC preparedness- One day review meeting / Monthly review meeting Outcome/Target: <ul style="list-style-type: none"> To prepare the Annual AQAR In-charge Faculty: Dr. Rajashekarappa | Pending | | |
| | NIRF ranking. | Activity-1: NIRF preparedness- To conduct events such as Project exhibition, Poster Presentation Hackathon,etc Outcome/Target: <ul style="list-style-type: none"> To get good NIRF Ranking In-charge Faculty: Dr. S S JOSHI | <ul style="list-style-type: none"> Conducted events under IIC <ul style="list-style-type: none"> Project exhibition Poster Presentation Hackathon-Coding event My Story-Motivational Session by successful Entrepreneur Workshop On "Entrepreneurship and Innovation as Career Opportunity" | | |
| | Others- if any | - | - | | |

Remarks- by the auditing team

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The progress report mentioned above is presented by the concerned department team, verified for its correctness by the auditing team and approved by the concerned authorities mentioned below.

| Name and Signature with Date of the concerned authority | | | | | | | | |
|---|----------------------------------|-----------------------------|--|-----------------------------------|--------------------------------|---|------------------------------------|-------------------------------|
| Year 2023-24 | | | | | | | | |
| | DUGC Member Secretary | IQAC Coordinator | Faculty I/C of Strategic Plan | Head of the Department | Member-3 Audit Team | Member- 2 Audit Team | Member-1 Audit Team | PRINCIPAL |
| | Dr. Pushpalatha S N | Dr. Anita Dixit | Dr. S. S. Joshi | Dr. J.D.Pujari | Dr. U.P.Kulkarni | | | Dr. R L Chakrasali |