

SDM College OF Engineering & Technology

Dharwad-580002



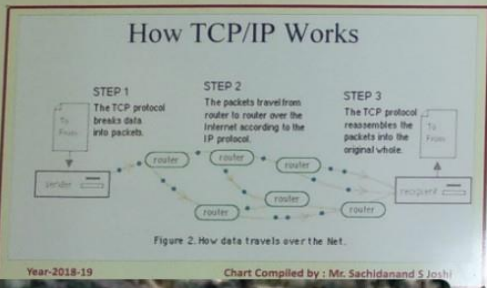
Department of Information Science & Engineering

POs and COs



HOD-ISE

Prof. & Head
DEPT. OF INFORMATION SCIENCE & ENGINEERING
SDM College of Engineering & Technology,
Chavalagiri DHARWAD-580 002



SDM College of Engineering & Technology, Dharwad DEPARTMENT OF INFORMATION SCIENCE AND ENGG	
LABORATORY FACILITIES:	
Laboratory name:	Web Technology / Internet working Lab
Subject Conducting:	Web Technology Lab & Internetworking Lab
Lab Area:	146.11 Sq Mtrs
Lab Capacity:	20
Computer Systems available:	Lenovo Thinkcentre M72E (B) (27 Nos) with 18.5" LED Monitor with 20 Minutes power backup
Printing and Scanning:	Laser Printer : HHP 3005D+N HP Scanjet 5590 Digital Flatbed Scanner
Network Protocol:	Star Networking protocol with Internet
Software Available:	Windows 7 OS Connected to LINUX Server & Oracle Server

SHRI DHARMASTHALA MANJUNATHESHWARA COLLEGE OF ENGINEERING & TECHNOLOGY, DHARWAD.

Department of Information Science and Engineering

VISION

To develop competent information technology engineers having complete knowledge and skills in contemporary information technology practices.

MISSION

M1 To develop contemporary curriculum in information technology delivered using Innovative teaching learning practices and ICT tools.
M2 To provide facilities for relevant research and expose students to the best industry Practices in Information Technology.
M3 To inculcate the best moral values and professional ethics in students.

SDM COLLEGE OF ENGINEERING & TECHNOLOGY, DHARWAD
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Programme Educational Objectives (PEOs)

Career and professional accomplishments that the programme is preparing graduates to achieve.

The UPE Programme in Information Science and Engineering at SDMCEET is designed such that within four years after graduation, the graduates will be able to:

PEO-1 Develop an Information Technology Professionals with expertise in problem/solutions to Information Engineering practice.

PEO-2 Develop higher studies with the sound knowledge of basic concepts and skills to basic science, mathematics and Information Technology disciplines.

PEO-3 Utilize professional skills and team work by providing the environment for acquiring advanced knowledge through laboratory and complementary work shops.

Program Outcomes (POs)

PO-1: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex problems.

PO-2: Problem Analysis: Identify, formulate, analyze and identify the requirements that lead to the development of engineering systems meeting individual or societal needs.

PO-3: Design/Development of Solutions: Design solutions by applying engineering design to meet customer requirements and industry needs with appropriate consideration for the public health, safety, and environmental consequences.

PO-4: Conduct Investigations of complex problems: Use research methods to identify and investigate the causes of complex problems and propose solutions to the problems.

PO-5: Modern Tool Usage: Select and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering problems with an understanding of the limitations.

PO-6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO-7: Environment and Sustainability: Understand the broad of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for, sustainable development.

PO-8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO-9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO-10: Communication: Communicate effectively on complex engineering activities including design, problem solving, and reporting on design progress and problem resolution using appropriate media.

PO-11: Project Management: Apply basic principles and management techniques to execute a complex project or activity with personal accountability and team contribution.

PO-12: Lifelong Learning: Recognize the need for, and have the ability and skill to engage in independent and lifelong learning in the broad area of technology.

Programme Specific Outcomes (PSOs)

PSO-1: Apply the knowledge of mathematics, science, and engineering to solve complex engineering problems.

PSO-2: Design and develop engineering systems meeting individual or societal needs with appropriate consideration for the public health, safety, and environmental consequences.

PSO-3: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

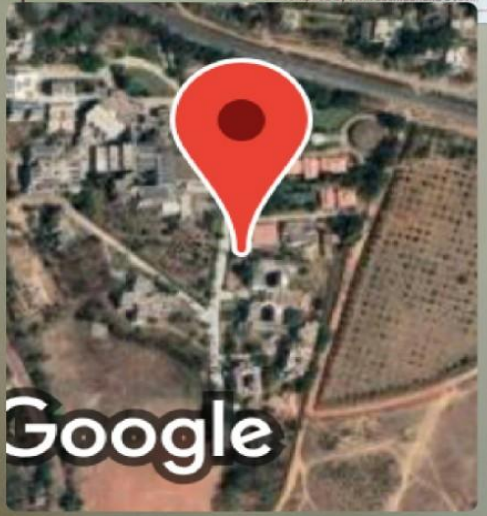
PSO-4: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PSO-5: Communicate effectively on complex engineering activities including design, problem solving, and reporting on design progress and problem resolution using appropriate media.

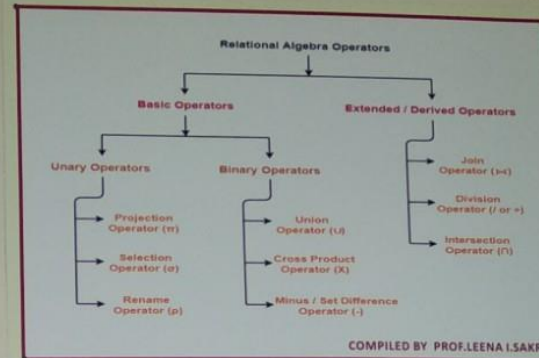
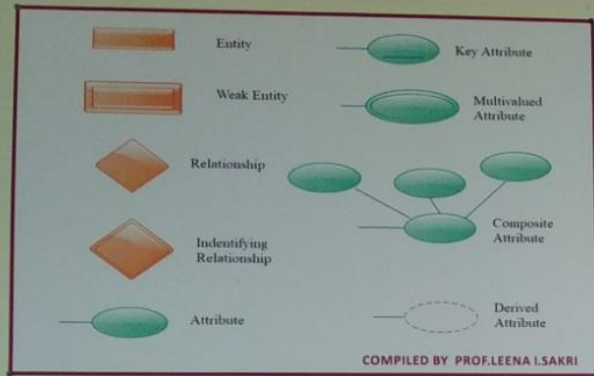
PSO-6: Apply basic principles and management techniques to execute a complex project or activity with personal accountability and team contribution.

PSO-7: Recognize the need for, and have the ability and skill to engage in independent and lifelong learning in the broad area of technology.

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SHRI DHARMASTHALA MANJUNATHESHWARA COLLEGE OF ENGINEERING & TECHNOLOGY, DHARWAD.

Department of Information Science and Engineering

VISION

To develop competent Information Technology Engineers having complete knowledge and skills in contemporary Information Technology practices.

MISSION

M1 To develop contemporary curriculum in information technology delivered using Innovative teaching learning practices and ICT tools.
 M2 To provide facilities for relevant research and expose students to the Information Technology and professional ethics in students.

SDM COLLEGE OF ENGINEERING & TECHNOLOGY, DHARWAD
 DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Programme Educational Objectives (PEOs)

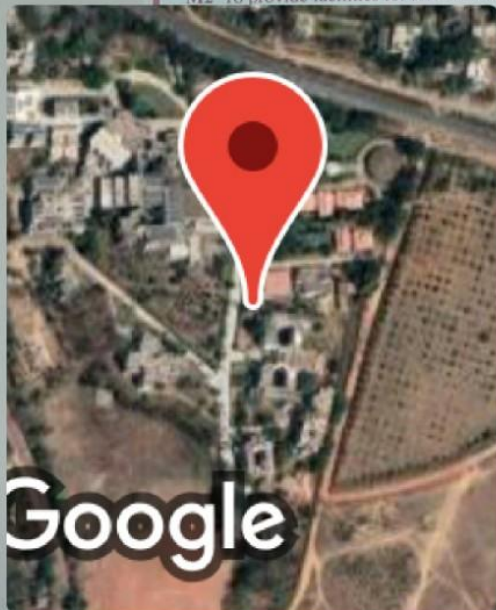
PEO 1 Develops the Information Technology Professionals with superior problem-solving abilities in Information Engineering problems.
 PEO 2 Pursues higher studies with the sound knowledge of basic concepts and skills in basic sciences, humanities and Information Technology disciplines.
 PEO 3 Foster professional and team work by providing the environment for exploring current technology trends through collaborative and complementary work ethics.

Program Outcomes (POs)

PO 1 Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
 PO 2 Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems making substantial conclusions using first principles of mathematics, natural sciences, and engineering sciences.
 PO 3 Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.
 PO 4 Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to conduct or assist in conducting a research project or to solve a complex engineering problem.
 PO 5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering solutions with an understanding of the limitations.
 PO 6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
 PO 7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for, sustainable development.
 PO 8 Ethics: Apply ethical principles and control to professional ethics and responsibilities and norms of the engineering practice.
 PO 9 Individual and team work: Function effectively as an individual and as a member or leader in diverse and multicultural teams, engineering projects or organizations.
 PO 10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the public at large, such as, being an effective team member, leader, project manager, collaborator, and client, sponsor, and community member.
 PO 11 Project management: Apply basic principles and management practices to plan, execute and close a project.
 PO 12 Lifelong learning: Recognize the need for, and have the motivation and ability to engage in independent and self-directed learning to update and enhance knowledge by using various learning methods in the profession or for career development.

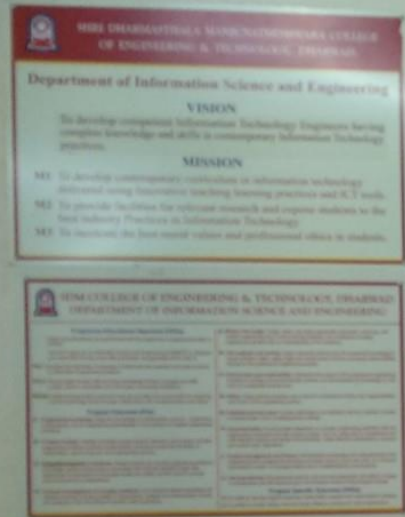
Program Specific Outcomes (PSOs)

PSO 1 Be able to identify, analyze, and design systems, components, or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.
 PSO 2 Be able to design and develop a system, component, or process that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.
 PSO 3 Be able to conduct investigations of complex problems, use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to conduct or assist in conducting a research project or to solve a complex engineering problem.



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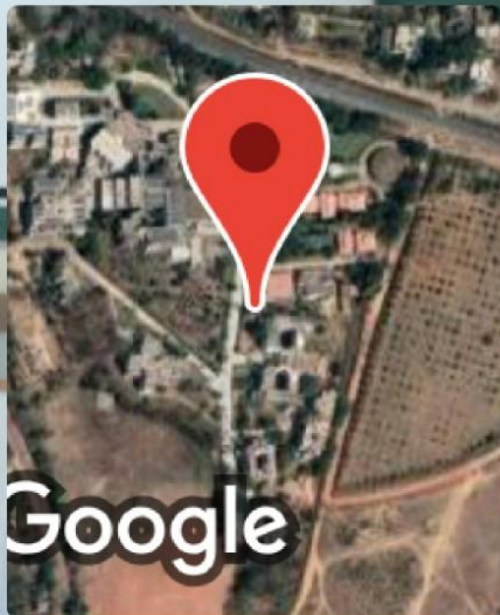
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SDM DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
VISION
To provide comprehensive information technology education having complete knowledge and skills in contemporary information technology.
MISSION
1. To provide comprehensive education in information technology
2. To provide quality innovative teaching learning practices and R.T. tools
3. To provide practice in information technology
4. To inculcate the best moral values and professional ethics in students.



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SDM COLLEGE OF ENGINEERING & TECHNOLOGY, DHARWAD DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Programme Educational Objectives (PEOs)

Career and professional accomplishments that the programme is preparing graduates to achieve

The UG Programme in Information Science and Engineering at SDMCET is designed such that within first few years after graduation, the graduates will be able to

PEO I: Develop into Information Technology Professionals with expertise in providing solutions to Information Engineering problems

PEO II: Pursue higher studies with the sound knowledge of basic concepts and skills in basic science, humanities and Information Technology disciplines.

PEO III: Exhibit professionalism and team work by providing the environment for exploring current technology trends through collaborative and complementary work ethics.

Program Outcomes (POs)

- 01. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems
- 02. Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 03. Design/Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 04. Conduct Investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

05. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

06. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

07. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for, sustainable development.

08. Ethics: Apply ethical principles and control to professional ethics and responsibilities and norms of the engineering practice.

09. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

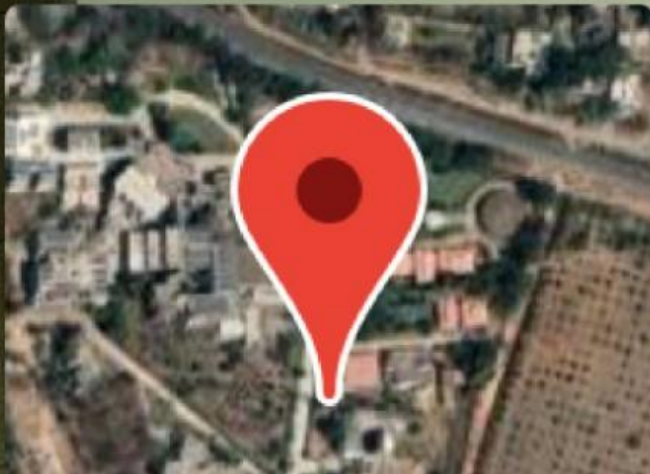
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broader context of technological change.

Program Specific Outcomes (PSOs)

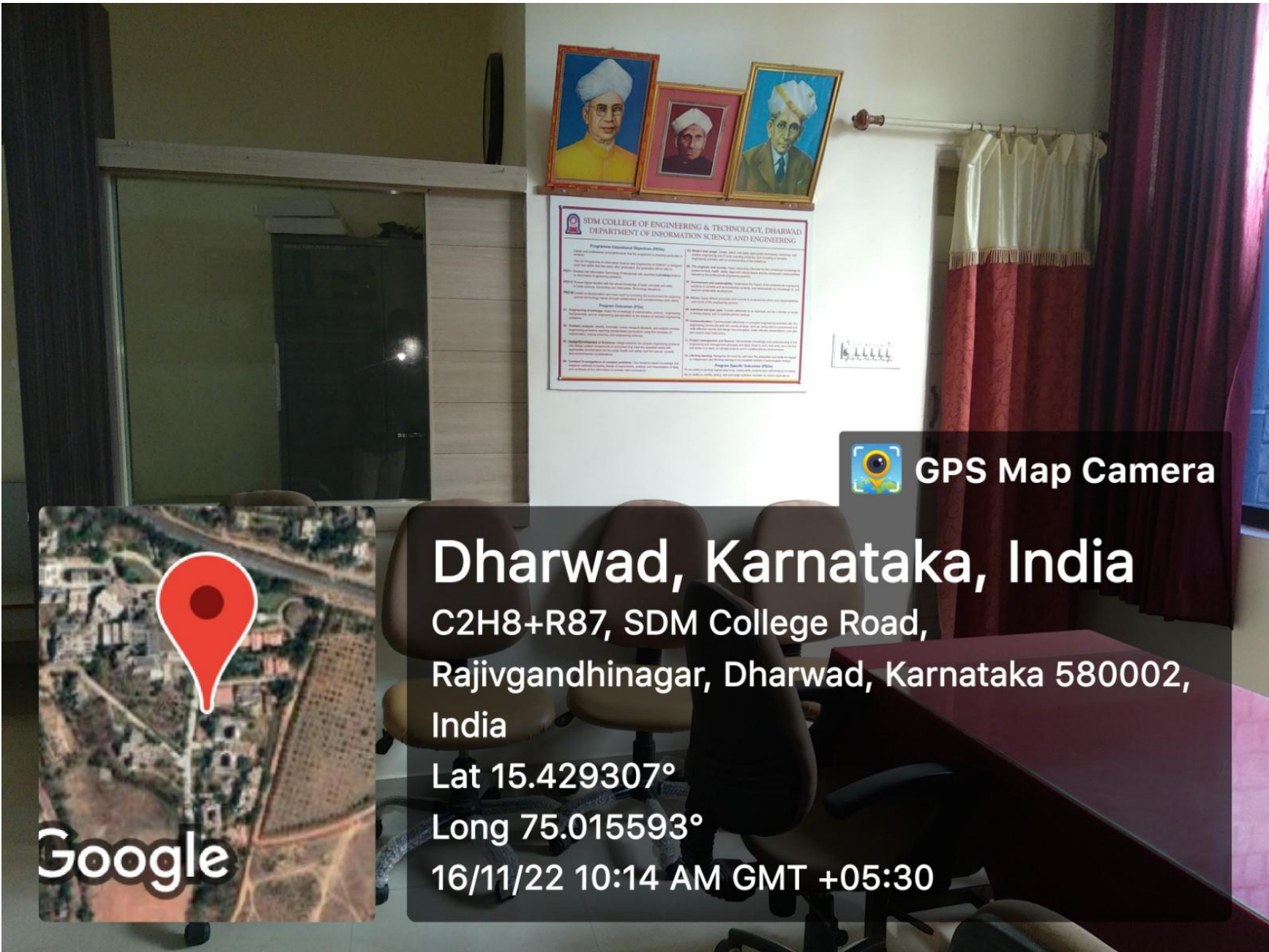
- 13.** An ability to develop logical reasoning, coding skills, analysis and mathematical modeling.
- 14.** An ability to modify, debug, test and adapt software modules for varied applications.



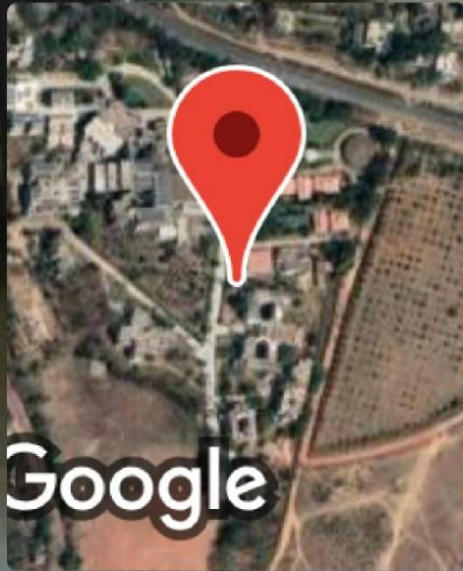
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M1 To develop contemporary curriculum in information technology delivered using Innovative teaching learning practices and ICT tools.

M2 To provide facilities for relevant research and expose students to the best industry Practices in Information Technology.

M3 To inculcate the best moral values and professional ethics in students.

SDM COLLEGE OF ENGINEERING & TECHNOLOGY, DHARWAD
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Programme Educational Objectives (PEOs)

Career and professional accomplishments that the programme is preparing graduates to achieve.

The B.Tech Programme in Information Science and Engineering at SDMCEET is designed such that within five years after graduation, the graduates will be able to:

PEO1: Develop the Information Technology Professionals with expertise in specializations in Information Engineering problems.

PEO2: Produce highly skilled with the sound knowledge of basic concepts and skills in basic science, mathematics and Information Technology disciplines.

PEO3: Enable undergraduate and learn work by providing the environment for acquiring current technology trends through collaborative and complementary work ethics.

Program Outcomes (POs)

PO1: **Engineering knowledge** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: **Problem analysis** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantial conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: **Design/development of solutions** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: **Conduct investigations of complex problems** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: **Modern tool usage** Choose, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: **The engineer and society** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities inherent in the professional engineering practice.

PO7: **Environment and sustainability** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.

PO8: **Ethics** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: **Individual and team work** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: **Communication** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: **Project management and finance** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member or leader in a team, to manage projects and in multidisciplinary environments.

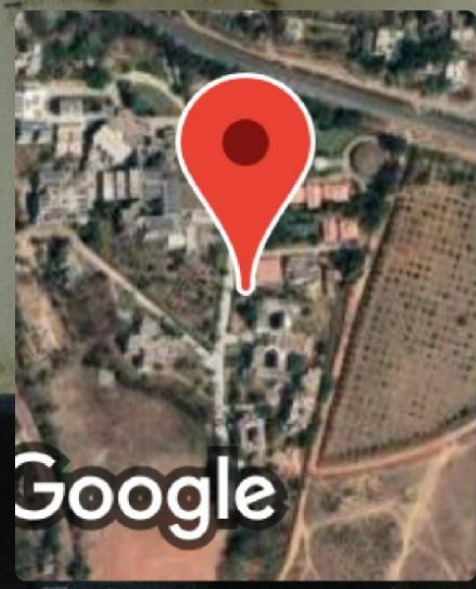
PO12: **Life-long learning** Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broader context of technological change.

Program Specific Outcomes (PSOs)

PSO1: An ability to develop logical reasoning, coding skills, analysis and mathematical modeling.

PSO2: An ability to modify, debug, test and other software modules for varied applications.

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**SHRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
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Department of Information Science and Engineering

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- M1 To develop contemporary curriculum in information technology delivered using Innovative teaching practices and ICT tools.
- M2 To provide facilities for relevant research and expose students to the best industry Practices in Information Technology.
- M3 To inculcate the best moral values and professional ethics in students.

**SDM COLLEGE OF ENGINEERING & TECHNOLOGY, DHARWAD
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

Programme Educational Objectives (PEOs)

Career and professional accomplishments that the programme is preparing graduates to achieve.

The UG Programme in Information Science and Engineering at SDMCET is designed such that within five years after graduation, the graduates will be able to:


- PEO I: Develop and implement Technology Professionals with expertise in providing solutions to Information Engineering problems.
- PEO II: Pursue Higher studies with the sound knowledge of basic concepts and skills in basic sciences, humanities and information Technology disciplines.
- PEO III: Exhibit professional and team work by providing the environment for acquiring current technology trends through collaborative and complementary work efforts.

Program Outcomes (POs)

- 01. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 02. **Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems requiring substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 03. **Design/development of solutions:** Design or create engineering solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health, safety, and the cultural, societal, and environmental considerations.
- 04. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to generate valid conclusions.
- 05. **Modern tool usage:** Choose, apply and update appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 06. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 07. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for, sustainable development.
- 08. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 09. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management practices and apply them to their own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

- 13. An ability to develop logical reasoning, coding skills, analysis and mathematical modeling.
- 14. An ability to install, debug, test and select software modules for varied applications.

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- MISSION**
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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Programme Educational Objectives (PEOs)
Career and professional accomplishments that the programme is preparing graduates to achieve

The UG Programme in Information Science and Engineering at SDMCEIT is designed such that within first five years after graduation, the graduates will be able to:

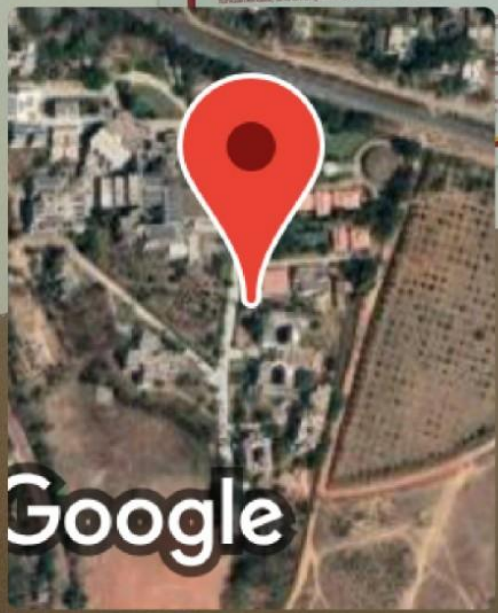
- PEO I: Develop into Information Technology Professionals with expertise in providing solutions to Information Engineering problems.
- PEO II: Pursue higher studies with the sound knowledge of basic concepts and skills in basic sciences, humanities and Information Technology disciplines.
- PEO III: Exhibit professionalism and team work by providing the environment for acquiring current technology trends through collaborative and complementary work ethics.

Program Outcomes (POs)

- PO 1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO 2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems into simpler ones and specify solution requirements.
- PO 3: Design/development of solutions: Design solutions for complex engineering problems, using design and development processes and modern engineering tools and techniques.
- PO 4: Conduct investigations of complex problems: Use research tools and techniques for literature survey, and identify, formulate and solve research problems.
- PO 5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO 6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO 7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for, sustainable development.
- PO 8: Ethics: Apply ethical attributes and conduct to professional ethics and responsibilities and norms of the engineering practice.
- PO 9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO 10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write reports, articles, and presentations, make effective oral presentations, and give and receive clear instructions.
- PO 11: Project management and finance: Demonstrate knowledge and understanding in a project management and financial context, and apply it to one or more engineering activities and systems, such as being able to identify, initiate, plan, execute, monitor, and close a project.
- PO 12: Lifelong learning: Recognize the need for, and have the ability to engage in independent and continuous learning in the technology area of specialization.



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