# COURSE OUTCOME

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| CO1 | Identify academic documents from the literature which are related to her/his areas of interest (Cognitive knowledge level: **Apply**). |
| CO2 | Read and apprehend an academic document from the literature which is related to her/ his areas of interest (Cognitive knowledge level: **Analyse**). |
| CO3 | Prepare a presentation about an academic document (Cognitive knowledge level: **Create**). |
| CO4 | Give a presentation about an academic document (Cognitive knowledge level: **Apply**). |
| CO5 | Prepare a technical report (Cognitive knowledge level: **Create**). |

# PROGRAM OUTCOMES

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| 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 analyse complex engineering problems reaching substantiated 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**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling 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 relevant to 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. |
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| 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 and 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 life-long learning in the broadest context of technological change |

## PROGRAM SPECIFIC OUTCOMES

| PSO1 | Shall enhance the employability skills by finding innovative solutions for challenges and problems in various domains of CS. |
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| PSO2 | Shall apply the acquired knowledge to develop software solutions and innovative mobile applications for various problems. |

## CO PO PSO MAPPING

|      | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| CO1  | 2   | 2   | 1   | 1   |     | 2   | 1   |     |     |      |      | 3    | 3    | 2    |
| CO2  | 3   | 3   | 2   | 3   |     | 2   | 1   |     |     |      |      | 3    | 3    | 2    |
| CO3  | 3   | 2   |     |     | 3   |     |     | 1   |     | 2    |      | 3    | 3    | 3    |
| CO4  | 3   |     |     |     | 2   |     |     | 1   |     | 3    |      | 3    | 3    | 2    |
| CO5  | 3   | 3   | 3   | 3   | 2   | 2   |     | 2   |     | 3    |      | 3    | 3    | 3    |

## CO-PO-PSO MAPPING JUSTIFICATION

| Mapping | Points Attained | Justification |
|---------|-----------------|---------------|
| CO1–PO1 | 2 | Identifying fashion datasets and AI frameworks shows application of fundamental engineering knowledge. |
| CO1–PO2 | 2 | Analysing limitations in extracting fashion knowledge demonstrates problem analysis skills. |
| CO1–PO3 | 1 | Preliminary understanding of system-level applications of DL in fashion knowledge extraction. |
| CO1–PO4 | 1 | Exploring experimental studies in fashion analytics reflects investigative skills. |
| CO1–PO6 | 2 | Awareness of fashion's role in culture and society links to societal considerations. |
| CO1–PO7 | 1 | Recognition of sustainable fashion trends connects with environmental sustainability. |
| CO1–PO12 | 3 | Continuous review of fashion datasets and DL models shows lifelong learning. |
| CO1–PSO1 | 3 | Identifying DL solutions for fashion knowledge extraction strengthens employability in AI-driven industries. |

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| CO1–PSO2 | 2 | Relates to developing real-world AI applications for fashion e-commerce. |
| CO2–PO1 | 3 | Understanding CNNs, GANs, and transformers reflects strong engineering fundamentals. |
| CO2–PO2 | 3 | Analysing algorithms for classification, parsing, and recommendation demonstrates analytical depth. |
| CO2–PO3 | 2 | Knowledge of designing DL-based fashion solutions shows problem-solving orientation. |
| CO2–PO4 | 3 | Reviewing benchmark datasets and experimental results develops investigative ability. |
| CO2–PO6 | 2 | Applying tools like TensorFlow, PyTorch, and fashion-specific datasets shows modern tool usage. |
| CO2–PO7 | 1 | Awareness of fashion's social and cultural influence adds societal relevance. |
| CO2–PO12 | 3 | Critical analysis of emerging DL methods for fashion aligns with lifelong learning. |
| CO2–PSO1 | 3 | Strengthens employability in data-driven fashion industries. |
| CO2–PSO2 | 2 | Application in real-world fashion recommender systems and e-commerce. |
| CO3–PO1 | 3 | Practical application of DL concepts in fashion domain presentations. |
| CO3–PO2 | 2 | Explaining challenges in dataset diversity and algorithmic limitations develops problem analysis. |
| CO3–PO5 | 3 | Designing presentation content with clear AI architectures shows solution design skills. |
| CO3–PO8 | 1 | Use of advanced visualization and DL frameworks in slides reflects tool usage. |
| CO3–PO10 | 2 | Awareness of fashion's social and cultural influence adds societal relevance. |
| CO3–PO12 | 3 | Content preparation based on current DL trends ensures lifelong learning. |
| CO3–PSO1 | 3 | Presentation reflects domain-specific alignment with AI in fashion. |

| CO3–PSO2 | 3 | Shows application of DL techniques in real-world fashion knowledge tasks. |
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| CO4–PO1 | 3 | Demonstrates engineering knowledge in explaining DL models for fashion. |
| CO4–PO5 | 2 | Ability to address questions on fashion datasets and DL challenges shows problem analysis. |
| CO4–PO8 | 1 | Explains experimental methods such as GAN-based fashion generation. |
| CO4–PO10 | 3 | Delivers structured and effective presentations with clarity. |
| CO4–PO12 | 3 | Demonstrates planning, time management, and team coordination in seminar delivery. |
| CO4–PSO1 | 3 | Relates theoretical DL ideas to fashion applications in e-commerce. |
| CO4–PSO2 | 2 | Discusses deployment of DL models in fashion recommendation systems. |
| CO5–PO1 | 3 | Combines DL theory with fashion case studies in written reports. |
| CO5–PO2 | 3 | Analyses model accuracy, dataset performance, and fashion trends. |
| CO5–PO3 | 3 | Documents AI frameworks and solutions in fashion knowledge extraction. |
| CO5–PO4 | 3 | Synthesises references and builds structured, research-oriented content. |
| CO5–PO5 | 2 | Applies modern DL tools and platforms in report preparation. |
| CO5–PO6 | 2 | Mentions societal impacts of fashion AI (e.g., inclusivity, culture). |
| CO5–PO8 | 2 | Considers sustainability in AI-driven fashion analytics. |
| CO5–PO10 | 3 | Maintains clarity, structure, and technical precision in reports. |
| CO5–PO12 | 3 | Includes up-to-date references, highlighting lifelong learning. |
| CO5–PSO1 | 3 | Strong technical understanding of DL-based fashion analysis. |
| CO5–PSO2 | 3 | Demonstrates planning and resource management in report creation. |