

Karnataka ReddyJana Sangha^(R)**VEMANA INSTITUTE OF TECHNOLOGY**Approved by AICTE-New Delhi, Affiliated to VTU-Belagavi, Recognized by Govt. of Karnataka
#1, Mahayogi Vemana Road, 3rd Block, Koramangala, Bengaluru - 34.www.vemanait.edu.in**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING****Course Outcomes & CO-PO-PSO Mapping and Justification****COURSE OUTCOMES**

| Subject | Artificial Intelligence and Machine Learning Lab | 18CSL76 |
|-------------------------|---|-----------------------------|
| COURSE OUTCOMES: | | |
| CO No. | On completion of this course, students will be able to: | RBT Level / Cognitive Level |
| 18CSL76.1 | Apply the algorithms for A* search, AO* Search. | L3 Apply |
| 18CSL76.2 | Apply the candidate Elimination, decision tree, Artificial neural network algorithms. | L3 Apply |
| 18CSL76.3 | Apply the algorithms for Naive Bayesian classifier and EM Classifier. | L3 Apply |
| 18CSL76.4 | Apply the K-Nearest Neighbor and regression algorithms. | L3 Apply |

CO-PO-PSO MAPPING

| CO No. | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
|----------------|------------|------------|------------|-----|------------|-----|-----|-----|-----|------|------|------------|------------|------|------|
| 18CSL76.1 | 2 | 1 | 1 | - | 1 | - | - | - | - | - | - | 1 | 2 | - | - |
| 18CSL76.2 | 2 | 2 | 1 | - | 1 | - | - | - | - | - | - | 1 | 2 | - | - |
| 18CSL76.3 | 2 | 2 | 1 | - | 1 | - | - | - | - | - | - | 1 | 2 | - | - |
| 18CSL76.4 | 2 | 2 | 1 | - | 1 | - | - | - | - | - | - | 1 | 2 | - | - |
| 18CSL76 | 2.0 | 1.8 | 1.0 | - | 1.0 | - | - | - | - | - | - | 1.0 | 2.0 | - | - |

CO-PO-PSO JUSTIFICATION

| CO No. | PO/PSO | CL | Justification |
|--------|--------|----|---------------|
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| 18CSL76.1 | PO1 | 2 | Knowledge of A* search, AO* Search approaches involve moderately in solving complex engineering problems. |
| | PO2 | 1 | Principles of mathematics and engineering sciences are used slightly in Artificial Intelligence approaches. |
| | PO3 | 1 | Slightly mapped as students use the knowledge of Heuristic search to design and develop solutions for complex engineering problems. |
| | PO5 | 1 | Slightly mapped as students use Heuristic search to design and conduct experiments to provide valid conclusions. |
| | PO12 | 1 | Slightly mapped as students will become aware of the need for lifelong learning and the continued upgrading of technical knowledge. |
| | PSO1 | 2 | Moderately mapped as students develop their own application software's. |
| 18CSL76.2 | PO1 | 2 | Knowledge of classifier models' applications helps moderately in solving complex engineering problems. |
| | PO2 | 2 | Principles of mathematics and engineering sciences are used moderately in various aspects of classifier models. |
| | PO3 | 1 | Slightly mapped as students use the Knowledge of classifier models to design and develop solutions for complex engineering problems. |
| | PO5 | 1 | Slightly mapped as students use various classifier models knowledge to design and conduct experiments to provide valid conclusions. |
| | PO12 | 1 | Slightly mapped as students will become aware of the need for lifelong learning and the continued upgrading of technical knowledge. |
| | PSO1 | 2 | Moderately mapped as students develop their own application software's using clustering knowledge. |
| 18CSL76.3 | PO1 | 2 | Knowledge of classifier models applications helps moderately in solving complex engineering problems. |
| | PO2 | 2 | Principles of mathematics and engineering sciences are used moderately in various aspects of classifier models. |
| | PO3 | 1 | Slightly mapped as students use the Knowledge of classifier models to design and develop solutions for complex engineering problems. |
| | PO5 | 1 | Slightly mapped as students use various classifier models knowledge to design and conduct experiments to provide valid conclusions. |
| | PO12 | 1 | Slightly mapped as students will become aware of the need for lifelong learning and the continued upgrading of technical knowledge. |
| | PSO1 | 2 | Moderately mapped as students develop their own application software's knowledge. |
| 18CSL76.4 | PO1 | 2 | Moderately maps as students learn K-Nearest Neighbor and regression algorithms. |

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| | PO2 | 2 | Moderately mapped as students will use K-Nearest Neighbor and regression Algorithm to solve complex engineering problems. |
| | PO3 | 1 | Slightly mapped as students design and develop solutions for complex engineering problems using K-Nearest Neighbor and regression algorithms. |
| | PO5 | 1 | Slightly mapped as students can use the K-Nearest Neighbor and regression algorithms to conduct experiments in real life problems to provide valid conclusions. |
| | PO12 | 1 | Slightly mapped as students will become aware of the need for lifelong learning and the continued upgrading of technical knowledge. |
| | PSO1 | 2 | Moderately mapped as students develop their own application software's using clustering knowledge. |

Prepared By
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