DHOLE PATIL EDUCATION SOCIETY's
DHOLE PATIL COLLEGE OF ENGINEERING
**Accredited by NAAC with A+ Grade, An ISO 9001:2015 Certified Institute**
**1284, Near Eon IT Park Kharadi, Dhole Patil College Road, Wagholi, Pune-412207**
**Website: www.dpcoepune.edu.in E-mail:** dpcoepune@gmail.com, Phone:020-66059900

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|---|---|
| **BE(Information Technology)** | |
| **Semester-I** | |
| **Course Name**<br>**Course Code** | **414441: Information Storage and Retrieval** |
| Attends of this course, the student will be able to: | |
| **Course Outcome** | **Course Outcome** |
| CO1 | Understand the concept of Information retrieval and to apply clustering in information retrieval. |
| CO2 | Use an indexing approach for retrieval of text and multimedia data. |
| CO3 | Evaluate performance of information retrieval systems |
| CO4 | Apply the concepts of multimedia and distributed information retrieval |
| CO5 | Use appropriate tools in analyzing the web information |
| CO6 | Simulate the working of a search engine and recommender system |

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| **Course Name**<br>**Course Code** | **414442: Software Project Management** |
| Attends of this course, the student will be able to: | |
| **Course Outcome** | **Course Outcome** |
| CO1 | Apply the practices and methods for successful Software Project Management |
| CO2 | Create Design and Evaluate Project |
| CO3 | Analyze Project Schedule and calculate Risk Management with help of tools. |
| CO4 | Demonstrate different tools used for Project Tracking, Monitoring & Control. |
| CO5 | Identify Staff Selection Process and the issues related to Staff Management. |
| CO6 | Discuss and use modern tools for Software Project Management. |

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| | **Semester-I** |
|---|---|
| **Course Name**<br>**Course Code** | **414443: Deep Learning** |
| Attends of this course, the student will be able to: | |
| **Course Outcome** | **Course Outcome** |
| CO1 | Understand the theoretical foundations, algorithms, and methodologies of Deep Learning. |
| CO2 | Apply the concepts of Convolution Neural Networks and use of popular CNN architectures. |
| CO3 | Compare Feed Forward Neural Network and Recurrent Neural Network and learn modeling the time dimension using RNN and LSTM. |
| CO4 | Elaborate unsupervised deep learning algorithms like Auto encoders. |
| CO5 | Explore Representation Learning and Transfer Learning techniques using variants of CNN architecture. |
| CO6 | Evaluate the performance of deep learning algorithms and to provide solution for various real-world applications. |

| **Course Name**<br>**Course Code** | **414444: Elective – III (Mobile Computing)** |
|---|---|
| Attends of this course, the student will be able to: | |
| **Course Outcome** | **Course Outcome** |
| CO1 | Understand the basic concepts of mobile computing, MAC and different multiplexing techniques. |
| CO2 | Understand Protocols, Connection Establishment, Frequency Allocation, Routing of mobile telecommunication system like GSM, GPRS, UMTS. |
| CO3 | understand the Generations of Mobile Communication Technologies |
| CO4 | Learn mobile IP , Adhoc – Network, Reactive Routing protocols, Multicast Routing |
| CO5 | Obtaining knowledge of transport layer protocol TCP, File System, and different application layer protocols. |
| CO6 | Gain knowledge about different mobile platforms, operating Systems, Software Development Kit, Security Issues. |

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| **Course Name**<br>**Course Code** | **414445: Elective – IV (Wireless Communication)** |
|---|---|
| Attend of this course ,the student will be able to: | |
| **Course Outcome** | **Course Outcome** |
| CO1 | Articulate the fundamental concept of cellular system. |
| CO2 | Analyze the fundamentals of cellular systems. |
| CO3 | Illustrate multiple access technique for effective utilization of spectrum. |
| CO4 | Design and analyze the WAP Programming Model in networking environment. |
| CO5 | Learn and understand security issues, challenges and tools in wireless communication. |
| CO6 | Explore the emerging trends and applications in wireless communication. |

| BE(Information Technology) | |
|---|---|
| Semester-II | |
| **Course Name**<br>**Course Code** | **414450: Distributed Systems** |
| Attends of this course, the student will be able to: | |
| **Course Outcome** | **Course Outcome** |
| CO1 | Demonstrate the core concepts of distributed systems. |
| CO2 | Understand the concept of middleware of distributed systems. |
| CO3 | Understand Inter-process communication methods and analyze different coordination algorithms |
| CO4 | Comprehend the importance of replication to achieve fault tolerance in distributed systems |
| CO5 | Analyze the design and functioning of existing distributed file systems, distributed multimedia, and distributed web-based systems. |
| CO6 | Understand various Recent Trends in distributed systems. |

| **Course Name**<br>**Course Code** | **414451: Elective- V (Social Computing)** |
|---|---|
| Attends of this course, the student will be able to: | |
| **Course Outcome** | **Course Outcome** |
| CO1 | Understand basics of Social Media Analytics |
| CO2 | Correlate Network Measures for Social Media Data |
| CO3 | Visualize mining in social media data |
| CO4 | Discuss the Social Similarities |
| CO5 | Interpret social media behavior |
| CO6 | Apply Social Media Computations for Google+ |

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| **Course Name**<br>**Course Code** | **414452: Elective-VI (Block chain Technology)** |
|---|---|
| Attend of this course ,the student will be able to: | |
| **Course Outcome** | **Course Outcome** |
| CO1 | Understand the concept of cryptography and decentralization. |
| CO2 | Acquire fundamental knowledge of block chain with issues associated with it. |
| CO3 | Acquire knowledge of Ethereum block chain platform. |
| CO4 | Understand hyper ledger fabric platform. |
| CO5 | Acquire the knowledge regarding working of tokenization. |
| CO6 | Describe the applications and risk involved |