

Visvesvaraya Technological University

Belagavi, Karnataka

MOOC Courses

Name of the Board: Computer Science and Engineering

| Sl. No. | Title of The MOOC Course | Course Area | Subject Matter Expert (SME) | Course Duration |
|---------|---|----------------------------------|--|-----------------|
| 1 | Spatial Informatics | Computer Science and Engineering | www.nptel.ac.in Prof. Soumya Kanti Ghosh, IIT Kharagpur | 8 Weeks |
| 2 | Software Project Management | Computer Science and Engineering | www.nptel.ac.in Prof. Durga Prasad Mohapatra Prof. Rajib Mall, IIT Kharagpur | 12 Weeks |
| 3 | Multimodal Interaction | Computer Science and Engineering | www.nptel.ac.in Dr. Sebastian Moller Dr. Stefan Hillmann IIT Madras | 4 Weeks |
| 4 | Hardware Security | Computer Science and Engineering | www.nptel.ac.in Prof. Debdeep Mukhopadhyay IIT Kharagpur | 12 Weeks |
| 5 | Introduction to Industry 4.0 and Industrial Internet of Things | Computer Science and Engineering | www.nptel.ac.in Prof. Sudip Misra IIT Kharagpur | 12 Weeks |
| 6 | Parallel Algorithms | Computer Science and Engineering | www.nptel.ac.in Prof. Sajith Gopalan IIT Guwahati | 12 Weeks |
| 7 | Advanced Graph Theory | Computer Science and Engineering | www.nptel.ac.in Dr. Rajiv Misra IIT Patna | 8 Weeks |
| 8 | AI: Constraint Satisfaction | Computer Science and Engineering | www.nptel.ac.in Prof. Deepak Khemani IIT Madras | 4 Weeks |
| 9 | Artificial Intelligence: Knowledge Representation and Reasoning | Computer Science and Engineering | www.nptel.ac.in Prof. Deepak Khemani IIT Madras | 4 Weeks |

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| 10 | Model Checking | Computer Science and Engineering | www.nptel.ac.in Prof. B. Srivathsan IIT Madras | 16 Weeks |
| 11 | Artificial Intelligence: Search Methods for Problem Solving | Computer Science and Engineering | www.nptel.ac.in Prof. Deepak Khemani IIT Madras | 4 Weeks |
| 12 | Numerical Optimization | Computer Science and Engineering | www.nptel.ac.in Dr. Shirish K. Shevade IISC Bangalore | 12 Weeks |
| 13 | Computational Geometry | Computer Science and Engineering | www.nptel.ac.in Prof. Sandeep Sen IIT Delhi | 12 Weeks |
| 14 | System Analysis and Design | Computer Science and Engineering | www.nptel.ac.in Prof. V. Rajaraman IISc Bangalore | 16 Weeks |
| 15 | Electronic Design Automation | Computer Science and Engineering | www.nptel.ac.in Prof. Indranil Sengupta IIT Kharagpur | 12 Weeks |
| 16 | Introduction to Blockchain Technology and Applications | Computer Science and Engineering | www.nptel.ac.in Prof. Sandeep Shukla IIT Kanpur | 8 Weeks |
| 17 | Blockchain Architecture Design and Use Cases | Computer Science and Engineering | www.nptel.ac.in Praveen Jayachandran Prof. Sandip Chakraborty IIT Kharagpur | 12 Weeks |
| 18 | Data Analytics with Python | Computer Science and Engineering | www.nptel.ac.in Prof. A. Ramesh IIT Roorkee | 8 Weeks |
| 19 | Python for Data Science | Computer Science and Engineering | www.nptel.ac.in Prof. RagunathanRengasamy IIT Madras | 4 Weeks |
| 20 | Scalable Data Science | Computer Science and Engineering | www.nptel.ac.in Prof. Sourangshu Bhattacharya Prof. Anirban Dasgupta IIT Kharagpur | 8 Weeks |
| 21 | Data Science for Engineers | Computer Science and Engineering | www.nptel.ac.in Prof. Shankar Narasimhan Prof. RagunathanRengasamy IIT Madras | 8 Weeks |
| 22 | Algorithms for Big Data | Computer Science and Engineering | www.nptel.ac.in Prof. John Augustine IIT Madras | 8 Weeks |
| 23 | Virtual Reality | Computer Science and | www.nptel.ac.in Prof Steven LaValle | 8 Weeks |

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| | | Engineering | IIT Madras | |
| 24 | Privacy and Security in Online Social Media | Computer Science and Engineering | www.nptel.ac.in Prof. Ponnurangam Kumaraguru IIT Delhi | 10 Weeks |
| 25 | Sensors and Actuators | Electrical Engineering | www.nptel.ac.in Prof. Hardik Jeetendra Pandya IISc Bangalore | 12 Weeks |
| 26 | Virtual Reality Engineering | General | www.nptel.ac.in Dr. M. Manivannan IIT Madras | 12 Weeks |
| Inter-Disciplinary Courses | | | | |
| 1 | Basic Concepts in Education | Education | https://swayam.gov.in/ Dr.S.Prakash Thiagarajar College of Preceptors, Madurai | 6 Weeks |
| 2 | Learning and Teaching | Education | https://swayam.gov.in/ Dr. Gaurav Singh Indira Gandhi National Open University | 16 Weeks |
| 3 | Academic & Research Report Writing | Education | https://swayam.gov.in/ Dr. Samir Roy National Institute of Technical Teachers Training and Research , Kolkata | 8 Weeks |
| 4 | Student Psychology | Education | https://swayam.gov.in/ Dr. S. Renukadevi National Institute of Technical Teachers Training and Research, Chennai | 8 Weeks |
| 5 | DEVELOPING LIFE SKILLS | Education | https://swayam.gov.in/ Prof. (Dr.) M.N. Mohamedunni Alias Musthafa Central University of Kerala | 8 Weeks |
| 6 | Corporate Law | Law | https://swayam.gov.in/ Prof. (Dr.) Harpreet Kaur National Law University Delhi | 15 Weeks |
| 7 | Sr. Secondary : Introduction to Laws (338) | Law | https://swayam.gov.in/ Dr. Sukanta Kumar Mahapatra National Institute of Open | 26 Weeks |

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| | | | Schooling (NIOS) | |
| 8 | Basic Econometrics | Arts | https://swayam.gov.in/ Dr.Pradip Prajapati Department of Economics, Gujarat University, Ahmedabad. | 12 Weeks |
| 9 | Introduction to Political Theory | Arts | https://swayam.gov.in/ DR. SIBAJI PRATIM BASU VIDYASAGAR UNIVERSITY | 8 Weeks |
| 10 | Macro Economics | Arts | https://swayam.gov.in/ Dr. Manasi Kurtkoti Savitribai Phule Pune University, Pune | 9 Weeks |
| 11 | Advanced Corporate Strategy | Commerce and Management | https://swayam.gov.in/ Prof. R. Srinivasan and Prof. Sai Yayavaram Indian Institute of Management Bangalore | 6 Weeks |
| 12 | Basics of Digital Marketing | Commerce and Management | https://swayam.gov.in/ Dr. Lalit Engle Devi Ahilya Vishwavidyalaya, Indore | 12 Weeks |
| 13 | Business Ethics | Commerce and Management | https://swayam.gov.in/ Archana Vechalekar Savitribai Phule Pune University, Pune | 8 Weeks |
| 14 | Corporate Tax Planning | Commerce and Management | https://swayam.gov.in/ Professor Anirban Ghosh Netaji Subhas Open University | 16 Weeks |
| 15 | Introduction to GST | Commerce and Management | https://swayam.gov.in/ Professor Anirban Ghosh Netaji Subhas Open University | 12 Weeks |