

Following are the NPTEL courses permitted for credit transfer under UE category. Contact your School Academic Coordinator before registering in the SWAYAM / NPTEL platform.



<b>Code</b>	<b>Title</b>	<b>Credit</b>
MOC1901	Advanced Green Manufacturing Systems	3
MOC1902	Introduction to Cognitive Psychology	3
MOC1903	Introduction to Political Theory	3
MOC1904	Six Sigma	3
MOC1905	Emotional Intelligence	2
MOC1906	Manufacturing Strategy	2
MOC1907	Supply Chain Analytics	2
MOC1908	Systems Engineering: Theory and Practice	2
MOC1913	Contemporary Themes in India's Economic Development and Economic	3
MOC1915	Design and Analysis of Algorithms	2
MOC1917	Spatial Informatics	2
MOC1920	Knowledge Management	2
MOC1924	Practitioners Course In Descriptive, Predictive and Prescriptive Analytics	2
MOC1926	Data Analysis and Decision Making - III	3
MOC1928	Business Analytics and Text Mining Modeling Using Python	2
MOC1930	Human Resource Development	3
MOC1931	Performance and Reward Management	3
MOC1933	E-Business	3
MOC1934	Innovation, Business Models and Entrepreneurship	2
MOC1935	The Ethical Corporation	2
MOC1936	Toyota Production System	2
MOC1937	Intellectual Property Rights and Competition Law	2
MOC1938	Patent Search for Engineers and Lawyers	2
MOC1939	Role of Craft and Technology in Interior - Architecture	2
MOC1958	Reinforcement Learning	3
MOC1959	Applied Natural Language Processing	3
MOC1961	Data Science for Engineers	2
MOC1962	Scalable Data Science	2
MOC1963	Advanced Computer Architecture	2
MOC1964	Software Project Management	3
MOC1965	Software testing	3
MOC1971	Introduction to Haskell Programming	2
MOC1972	Flow through Porous Media	3
MOC1973	Bioenergy	2
MOC1975	Nanotechnology in Agriculture	2
MOC1976	Computer Aided Drug Design	2
MOC1977	Drug Delivery: Principles and Engineering	3
MOC1979	Introduction to Proteogenomics	3
MOC1980	Introduction to Mechanobiology	2
MOC1982	Organic Chemistry in Biology and Drug Development	3
MOC1984	Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries	3
MOC1985	Biophysical chemistry	3
MOC1987	Blockchain Architecture Design and use Cases	3
MOC1988	Ethical Hacking	3
MOC1989	Organic Farming for Sustainable Agricultural Production	2

MOC1990	Positive Psychology	2
MOC1996	Computational Systems Biology	3
MOC1998	Biostatistics and Design of Experiments	2
MOC2001	Principles and Applications of NMR Spectroscopy	2
MOC2002	Cell Culture Technologies	2
MOC2003	Natural Hazards	2
MOC2005	Energy Efficiency, Acoustics and Daylighting in Building	3
MOC2006	Fire Protection, Services and Maintenance Management of Building	3
MOC2008	Higher Surveying	3
MOC2009	Environmental Remediation of Contaminated Sites	3
MOC2011	Introduction to Accounting and Finance for Civil Engineers	2
MOC2014	Sustainable Materials and Green Buildings	3
MOC2015	Geomorphic Processes: Landforms and Landscapes	2
MOC2017	Computational Geometry	3
MOC2018	Compiler Design	3
MOC2021	Cloud computing	2
MOC2023	Privacy and Security in Online Social Media	2
MOC2024	Information Security - 5 - Secure Systems Engineering	2
MOC2025	Model Checking	3
MOC2026	Randomized Algorithms	3
MOC2027	GPU Architectures and Programming	3
MOC2028	Multi-Core Computer Architecture - Storage and Interconnects	2
MOC2029	Data Analytics with Python	3
MOC2030	Arithmetic Circuit Complexity	3
MOC2031	Google Cloud Computing Foundation Course	2
MOC2032	Consumer Behaviour	2
MOC2033	Enhancing Soft Skills and PersonalityÂ	2
MOC2034	Introduction to Airplane Performance	2
MOC2035	Rocket Propulsion	3
MOC2037	Sustainable Architecture	3
MOC2039	Structure, Form, and Architecture : The Synergy	2
MOC2040	Interactomics : Basics and Applications	3
MOC2042	Material and Energy Balances	3
MOC2043	Thermodynamics for Biological Systems: Classical and Statistical Aspect	3
MOC2044	Optical Spectroscopy and Microscopy : Fundamentals of Optical Measurements	3
MOC2048	Environmental Geomechanics	3
MOC2051	Geotechnical Engineering II Foundation Engineering	3
MOC2052	Landscape Architecture and Site Planning - Basic Fundamentals	2
MOC2053	Plastic Waste Management	2
MOC2055	Applied Environmental Microbiology	3
MOC2056	Digital Land Surveying And Mapping (DLS&M)	2
MOC2057	Earthquake Geology: A tool for Seismic Hazard Assessment	3
MOC2059	Structural Dynamics	3
MOC2060	Water Supply Engineering	3
MOC2062	Geotechnical Engineering - 1	3
MOC2063	Maintenance and Repair of Concrete Structures	3
MOC2064	Thermodynamics	3
MOC2065	Geomorphology	3
MOC2066	Remote Sensing Essentials	3
MOC2067	Hydraulic Engineering	3
MOC2068	Environmental Quality Monitoring and Analysis	3
MOC2069	Electrochemical Technology in Pollution Control	2

MOC2070	Advanced Thermodynamics	3
MOC2071	Membrane Technology	3
MOC2072	Computational Fluid Dynamics	3
MOC2073	Transport phenomena	3
MOC2074	Optimization in Chemical Engineering	3
MOC2075	Soft Nano Technology	2
MOC2076	Transport processes I - Heat and Mass Transfer	3
MOC2077	Process Control - Design, Analysis and Assessment	3
MOC2078	Heat Transfer	3
MOC2079	Chemical Reaction Engineering II	3
MOC2080	Multiphase Flows	2
MOC2081	Mass Transfer Operations - I	3
MOC2082	Waste to Energy Conversion	2
MOC2085	Computer Aided Applied Single Objective Optimization	2
MOC2086	Basic Principles and Calculations in Chemical Engineering	3
MOC2087	Introduction to Blockchain Technology and Applications	2
MOC2089	Introduction to Database Systems	3
MOC2093	Data Base Management System	2
MOC2094	Introduction to Algorithms and Analysis	3
MOC2095	Data Mining	2
MOC2106	Social Networks	3
MOC2111	User-centric Computing for Human-Computer Interaction	3
MOC2112	Cloud Computing and Distributed Systems	2
MOC2114	Modern Application Development	3
MOC2117	Quantitative Methods in Chemistry	3
MOC2119	Ultrafast Laser Spectroscopy	3
MOC2120	Transition Metal Organometallics in Catalysis and Biology	3
MOC2121	Essentials of Biomolecules : Nucleic Acids and Peptides	3
MOC2122	Fundamentals of Spectroscopy	3
MOC2123	Advanced Chemical Thermodynamics and Kinetics	3
MOC2124	Biochemistry	3
MOC2126	Chemical Applications of Symmetry and Group Theory	2
MOC2127	Basic Thermodynamics : Classical and Statistical Approaches	3
MOC2128	Medicinal Chemistry	3
MOC2129	Design, Technology and Innovation	2
MOC2130	Geographic Information System	3
MOC2134	High Power Multilevel Converters-Analysis, Design and Operational Issues	3
MOC2139	Power Management Integrated Circuits	3
MOC2140	DC Power Transmission Systems	3
MOC2157	Advance Power Electronics and Control	2
MOC2163	Spread Spectrum Communications and Jamming	3
MOC2165	Evolution of Air Interface towards 5G	2
MOC2167	Electrical Machines - II	3
MOC2179	Nonlinear System Analysis	3
MOC2181	Introduction to Research	2
MOC2183	Roadmap for Patent Creation	2
MOC2186	Microeconomics : Theory & Applications	3
MOC2187	Introduction to Environmental Economics	3
MOC2188	Energy Resources, Economics and Environment	3
MOC2189	Literary Criticism (From Plato to Leavis)	3
MOC2190	Twentieth Century Fiction	3
MOC2192	Strategic Trade and Protectionism - Theories and Empirics	2

MOC2193	Introduction to Cultural Studies	3
MOC2195	Speaking Effectively	2
MOC2197	Intellectual Property	3
MOC2198	English Language for Competitive Exams	3
MOC2199	English Literature for competitive Exams	2
MOC2200	Language and Mind	2
MOC2201	The Nineteenth - Century English Novel	3
MOC2202	Introduction to World Literature	3
MOC2204	Patent Law for Engineers and Scientists	3
MOC2205	Economic Growth & Development	2
MOC2206	Human Behaviour	2
MOC2207	Introduction to Modern Indian Political Thought	3
MOC2208	English Literature of the Romantic Period, 1798 - 1832	2
MOC2209	Literature, Culture and Media	3
MOC2210	Introduction to Brain & Behaviour	2
MOC2211	Modern Indian Writing in Translation	3
MOC2212	Introduction to Political Ideologies : Contexts, Ideas, and Practices	3
MOC2213	Indian Business History	2
MOC2216	Feminism : Concepts and Theories	3
MOC2217	An Introduction to Smooth Manifolds	3
MOC2218	Measure Theory	3
MOC2219	Basic Real Analysis	3
MOC2221	Graph Theory	2
MOC2225	Introduction to Rings And Fields	2
MOC2232	Chaotic Dynamical System	3
MOC2239	Descriptive Statistics with R Software	2
MOC2240	Engineering Mechanics - Statics and Dynamics	2
MOC2241	Experimental Stress Analysis	3
MOC2243	Computational Fluid Dynamics for Incompressible Flows	3
MOC2244	Experimental Methods in Fluid Mechanics	3
MOC2245	Foundations of Computational Materials Modelling	3
MOC2246	Acoustic Materials and Metamaterials	2
MOC2247	Power Plant Engineering	2
MOC2248	Applied Ergonomics	3
MOC2249	Product Design and Manufacturing	3
MOC2250	Manufacturing Process Technology I & II	3
MOC2251	Introduction To Mechanical Micro Machining	3
MOC2253	Gear And Gear Unit Design : Theory And Practice	2
MOC2254	Conduction and Convection Heat Transfer	3
MOC2256	Kinematics of Mechanisms and Machines	2
MOC2257	Introduction To Fluid Mechanics	3
MOC2258	Fundamental of Welding Science and Technology	2
MOC2259	Introduction to Abrasive Machining and Finishing Processes	2
MOC2262	Diffusion in Multicomponent Solids	3
MOC2263	Processing of Polymers and Polymer Composites	2
MOC2264	Operations Management	3
MOC2267	Steam and Gas Power Systems	2
MOC2268	Principles of Casting Technology	2
MOC2269	Financial Mathematics	3
MOC2270	Modelling and Simulation of Dynamic Systems	2
MOC2271	Fundamentals of combustion for propulsion	2
MOC2272	Industrial Automation And Control	3

MOC2273	Fundamentals of Nuclear Power Generation	3
MOC2274	Mechanics of Machining	2
MOC2275	IC Engines and Gas Turbines	3
MOC2276	Principles of Industrial Engineering	3
MOC2277	Computer Integrated Manufacturing	3
MOC2280	Introduction to System Dynamics Modeling	2
MOC2282	Integrated Marketing Management	2
MOC2283	Simulation of Business Systems: An Applied Approach	2
MOC2284	Production and Operation Management	3
MOC2285	Services Marketing : Integrating People, Technology, Strategy	2
MOC2286	Managerial Skills for Interpersonal Dynamics	3
MOC2287	Financial Institutions and Markets	3
MOC2288	Business Analytics For Management Decision	3
MOC2290	Sales and Distribution Management	2
MOC2292	Managing change in organizations	2
MOC2293	Management of Inventory Systems	3
MOC2294	Quality Design And Control	3
MOC2295	Foundation Course in Managerial Economics	2
MOC2296	Engineering Econometrics	3
MOC2297	Financial Statement Analysis and Reporting	3
MOC2298	Business Statistics	3
MOC2299	Global Marketing Management	2
MOC2300	Marketing Research and Analysis - II	3
MOC2301	Infrastructure Planning and Managements	3
MOC2302	Modelling and Analytics for Supply Chain Management	3
MOC2303	Marketing Analytics	3
MOC2305	Management of Commercial Banking	3
MOC2306	Behavioral and Personal Finance	2
MOC2307	Total Quality Management - 1	2
MOC2309	Modeling of Tundish Steelmaking Process in Continuous Casting	2
MOC2312	Corrosion - Part I	2
MOC2313	Solar Photovoltaics: Principles, Technologies and Materials	2
MOC2314	Welding Processes	3
MOC2315	Theory and Practice of Non Destructive Testing	2
MOC2316	Steel Quality: Role of Secondary Refining and Continuous Casting	3
MOC2317	Materials Science and Engineering	2
MOC2318	Surface Engineering of Nanomaterials	2
MOC2319	Dealing with Materials Data: Collection, Analysis and Interpretation	3
MOC2320	Friction and Wear of Materials: Principle and Case Studies	2
MOC2321	Material Characterization	3
MOC2322	Offshore Structures Under Special Environmental Loads Including Fire Resistance	3
MOC2324	Group Theory methods in Physics	3
MOC2326	Quantum Mechanics I	3
MOC2332	Introduction to Atmospheric and Space Sciences	3
MOC2334	Evaluation of Textiles Materials	3
MOC2335	Advanced Textile Printing Technology	2
MOC2336	Textured Yarn Technology	3
MOC2337	Theory of Yarn Structure	3
MOC2338	Testing of Functional and Technical Textiles	2
MOC2460	Aircraft Design	3
CFOC728M	Soil and Water Conservation Engineering	3
CFOC691M	Urban Services Planning	3

CFOC719M	Design and Engineering of Computer Systems	3
CFOC690M	EV - Vehicle Dynamics and Electric Motor Drives	3
CFOC689M	Semiconductor Devices for Next Generation Field Effect Transistors (More than Moore): A Physics Perspective	3
New 1	Modern Food Packaging Technologies: Regulatory Aspects and Global Trends	3
New 2	Cooling Technology: Why and How utilized in Food Processing and allied Industries	3
New 3	Machine Learning for Soil and Crop Management	3
New 4	Time Series Modelling and Forecasting with Applications in R	3
New 5	BioInformatics: Algorithms and Applications	3
New 6	Optical Spectroscopy and Microscopy : Fundamentals of Optical Measurements and Instrumentation	3
New 7	Environmental Quality Monitoring & Analysis	2
New 8	Games and Information	3
New 9	Introduction to Large Language Models (LLMs)	3
New 10	Fundamentals of MIMO Wireless Communication	2
New 11	Introduction On Intellectual Property To Engineers And Technologists	2
New 12	United Nations Sustainable Development Goals (UN SDGs)	3
New 13	Air Transportation: An Overview	3
New 14	Aeromechanics of Unmanned Aerial Vehicles / Drones	3
New 15	Software Reliability	3