

**NED University of Engineering & Technology**  
**Centre for Continuing Engineering Education (CCEE)-Academy**  
**Offered PGC Courses in (Fall 2017)**

**Dept. of Civil Engineering**

<b><u>S.No</u></b>	<b><u>Code #</u></b>	<b><u>Courses</u></b>
<b>M.Engg</b>		
<b>Structural Engineering</b>		
1.	CE - 501	Advanced Structural Analysis
2.	CE – 502	Mechanics of Solids
3.	CE - 503	Advanced Reinforced Concrete
4.	CE – 504	Advanced Engineering Mathematics
5.	CE – 512	Bridge Analysis and Design
6.	CE - 513	Seismic Analysis and Design
7.	EQ - 523	Seismic Design of Steel and Composite Structures
<b>Transportation Engineering</b>		
8.	CE - 562	Geometric Design of Highways
9.	CE - 563	Advanced Traffic Engineering and Management
10.	CE – 564	Probability and Statistics
11.	CE – 567	Public Mass Transportation
12.	CE - 569	Pavement Analysis & Design
13.	CE - 570	Transportation Economics
14.	CE - 572	Transportation Systems Evaluation
<b>Geo-Technical Engineering</b>		
15.	CE - 531	Advanced Soil Mechanics
16.	CE – 532	Foundation Engineering
17.	CE - 533	Soil-Foundation Dynamics
18.	CE – 535	Earth Structures
19.	CE - 538	Groundwater and Seepage
<b>Coastal and Water Resources Engineering</b>		

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20.	CE - 524	Coastal Management
21.	CE - 525	Soil Mechanics in Coastal Engineering
22.	CE - 580	Applied Hydrology
23.	CE - 583	Groundwater Engineering
<b>MEM</b>		
<b>Construction Management</b>		
24.	EM – 501	Organisational Systems
25.	EM – 502	Accounting and Financial Management
26.	EM - 503	Strategic Planning and Decision Making
27.	EM – 504	Project Management Framework and Tools
28.	EM – 505	Operations Research
29.	EM – 512	Project Evaluation and Feasibility Analysis
30.	CE - 550	Construction Productivity Management
31.	CE – 588	Leadership in Construction Management
32.	CE - 592	Decision Making and Risk Management in Construction
<b>Weekend Programme</b>		
<b>Structural Engineering</b>		
33.	CE - 502	Mechanics of Solids
34.	CE - 503	Advanced Reinforced Concrete
35.	CE – 510	Structural Stability
36.	CE - 511	Structural Dynamics
37.	CE - 512	Bridge Analysis and Design
38.	CE - 515	Design of Steel Structures
<b>Construction Management</b>		

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39.	EM - 501	Organizational Systems
40.	EM - 502	Accounting and Financial Management
41.	EM - 503	Strategic Planning and Decision Making
42.	EM - 504	Project Management Framework and Tools
43.	EM - 505	Operations Research
44.	EM - 512	Project Evaluation and Feasibility Analysis
45.	CE - 545	Construction Claim Management
46.	CE - 592	Decision Making and Risk Management in Construction

**Dept. of Architecture Engineering**

<u>S.No.</u>	<u>Code #</u>	<u>Courses</u>
<b>Master of Architecture Programme (M.Arch)</b>		
1.	AR – 646	Community Architecture
2.	AR - 647	Advanced Writing Skills in Architecture
3.	AR - 648	Architecture and the City
<b>Master of Urban and Regional Planning Programme (MURP)</b>		
4.	AR – 615	Economic Development and Regional Planning
5.	AR - 625	Statistical Methods in Planning
6.	AR - 641	Regional Planning Studio

**Dept. of Environmental Engineering**

<u>S.No.</u>	<u>Code #</u>	<u>Courses</u>
<b>M.Engg Programme</b>		
1.	EN - 508	Environmental Impact Assessment
2.	EN - 515	Air Pollution and Control

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3.	EN - 521	Special Topics in Environmental Engineering
4.	EN - 523	Analysis of Env. Contaminants
5.	EN - 526	Solid Waste Management
<b>MEM (Environmental Management)</b>		
6.	EM - 503	Strategic Planning and Decision Making
7.	EM - 504	Project Management Framework and Tools
8.	EN - 540	Health, Safety & Environmental Management
9.	EN - 541	Remote Sensing in Environmental Management
<b>Weekend Programme</b>		
<b>M.Engg Programme</b>		
10.	EN – 508	Environmental Impact Assessment
11.	EN – 516	Environmental Health
12.	EN - 521	Special Topics in Environmental Engineering
13.	EN - 524	Wastewater Engineering
14.	EN - 525	Physico Chemical Processes
<b>MEM (Environmental Management)</b>		
15.	EM - 501	Organizational Systems
16.	EM - 502	Accounting and Financial Management
17.	EN - 541	Remote Sensing in Environmental Management

**Dept. of Textile Engineering**

<b><u>S.No.</u></b>	<b><u>Code #</u></b>	<b><u>Courses</u></b>
<b>MS &amp; MEM Textile Management</b>		
1.	EM - 501	Organisational Systems

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2.	EM - 502	Accounting and Financial Management
3.	EM - 511	Total Quality Management
4.	TE - 553	Textile Brand Management and Marketing

**Dept. of Industrial & Manufacturing Engineering**

<u>S.No.</u>	<u>Code #</u>	<u>Courses</u>
<b>MEM Courses</b>		
<b>Industrial Management (IM)</b>		
1.	EM - 501	Organisational Systems
2.	EM - 502	Accounting and Financial Management
3.	EM - 503	Strategic Planning and Decision Making
4.	EM - 505	Operations Research
5.	IM - 501	Supply Chain Management
6.	IM - 503	Maintenance Management
7.	IM - 526	Facilities Planning and Layout
<b>Quality Management (QM)</b>		
8.	EM - 502	Accounting and Financial Management
9.	EM - 503	Strategic Planning and Decision Making
10.	EM - 504	Project Management Framework and Tools
11.	EM - 505	Operations Research
12.	IM - 513	Six Sigma Methodologies
13.	IM - 526	Facilities Planning and Layout
<b>Supply Chain Management (SCM)</b>		
14.	EM - 501	Organisational Systems
15.	EM - 502	Accounting and Financial Management
16.	EM - 503	Strategic Planning and Decision Making

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17.	IM - 503	Supply Chain Management
18.	IM - 556	Retail Management
19.	IM - 559	International Trade
<b>Weekend Programme</b>		
<b>Industrial Management (IM)</b>		
20.	EM - 501	Organisational Systems
21.	EM - 503	Strategic Planning and Decision Making
22.	EM - 505	Operations Research
23.	EM - 511	Total Quality Management
24.	IM - 501	Supply Chain Management
25.	IM - 515	Agile and Lean Manufacturing
<b>M.Engg.</b>		
<b>Manufacturing Engineering (ME)</b>		
26.	EM - 504	Project Management Framework and Tools
27.	IM - 513	Six Sigma Methodologies
28.	ME - 503	Computer Aided Design
29.	ME - 521	Automation & Controls
30.	ME - 525	Advanced Manufacturing Processes
31.	TE - 505	Advanced Statistics

**Dept. of Electrical Engineering**

<b><u>S.No.</u></b>	<b><u>Code #</u></b>	<b><u>Name</u></b>
<b>M.Engg (Electrical Power Systems)</b>		
1.	EE - 501	Linear Control Systems
2.	EE - 521	Power System Analysis - I
3.	EE - 523	Power System Protection
4.	EE - 524	Electrical Power Distribution System Engg. - I

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5.	EE - 525	Electrical Power Distribution System Engg. - II
6.	EE - 532	Reactive Power Control
<b>MEM (Energy Management)</b>		
7.	EM - 501	Organisational Systems
8.	EM - 502	Accounting and Financial Management
9.	EM - 503	Strategic Planning and Decision Making
10.	EM - 504	Project Management Framework and Tools
11.	EM - 512	Project Evaluation and Feasibility Analysis
12.	EE - 562	Energy Audits

**Dept. of Electronic Engineering**

<u>S.No.</u>	<u>Code #</u>	<u>Courses</u>
<b>M. Engg. Electronics (Micro System Design)</b>		
1.	EL - 402	Introduction to Mechatronics
2.	EL - 502	Analog Integrated Circuits
3.	EL - 504	Electronic Design Automation
4.	EL - 507	Fuzzy Logic and Intelligent Electronics Control Systems
5.	EL - 514	Light Wave Engineering
6.	EL - 515	High Speed Semiconductor Devices and Circuits
<b>M.Engg. Electronics (Industrial Electronics)</b>		
7.	EL - 501	Solid State Material & Devices
8.	EL - 502	Analog Integrated Circuits
9.	EL - 504	Electronics Design Automation
10.	EL - 521	Measurement and Calibration of Electronic Sys.
11.	EL - 525	Sensors and Systems

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12.	EL - 526	Robotics and its Application of Industrial Electronics
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**Dept. of Telecommunications Engineering**

<u>S.No.</u>	<u>Code #</u>	<u>Courses</u>
<b><u>M.Engg.</u></b>		
1.	TC – 501	Probability and Random Processes
2.	TC – 503	Digital Communication Theory
3.	TC - 511	Communication Networks
4.	TC - 512	Microwave Systems
5.	TC - 514	Mobile Telephone System
6.	TC - 515	Advanced Digital Signal Processing
<b>M.S.</b>		
7.	TC – 506	Information Systems
8.	TC – 507	Analog and Digital Communication
9.	TC – 508	Data Communication and Networks
10.	TC - 509	Telecommunication Policies and Regulations

**Department of Computer & Information System Engineering**

<u>S.No.</u>	<u>Code #</u>	<u>Courses</u>
<b>Elective Courses</b>		
<b>Computer Architecture and Systems Design</b>		
1.	CS - 505	Advanced Digital Signal Processing
2.	CS - 521	Introduction to Robotics
3.	CS - 598	Current Topics in Computer Systems Engineering
<b>Computer Networks and Performance Evaluation</b>		
1.	CS - 503	Queuing Theory for Performance Modelling of Computer Systems



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2.	CS - 520	Database Systems
3.	CS -598	Current Topics in Computer Systems Engineering
<b>Compulsory Courses</b>		
<b>Computer Architecture and Systems Design Computer Networks and Performance Evaluation</b>		
1.	CS - 506	Advanced Computer Systems Architecture
2.	CS - 513	Artificial Intelligence
3.	CS - 531	Advanced Operating Systems
4.	CS - 537	Advanced Switching Theory
<b>Non-Credits Course</b>		
1.	CS - 403	Introduction to Computer Networks
2.	CS - 404	Computer Systems Architecture and Organization
<b>Weekend Programme</b>		
<b>MS (Data Engineering and Information Management)</b>		
<b>Non-Credit Course</b>		
1.	CS - 412	Data Structures and Databases
<b>Elective Courses</b>		
1.	CS - 565	Data Encryption
2.	CS - 567	Data Warehousing
2.	CS - 568	Decision Support Systems
3.	CS – 571	Information Systems Auditing
<b>Compulsory Courses</b>		
1.	CS – 551	Advanced Database Systems
2.	CS – 552	Data Analytics
3.	CS – 554	Data Security and Audit

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4.	CS – 555	Distributed Systems
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**Department of Chemical Engineering**

<u>S.No.</u>	<u>Code #</u>	<u>Courses</u>
<b><u>M.Engg</u></b>		
1.	CH – 501	Chemical Thermodynamics – III
2.	CH – 502	Advanced Reaction Engineering
3.	CH – 505	Mathematical Methods
4.	CH – 515	Computational Fluid Dynamics
5.	CH – 520	Advanced Heat Transfer
<b><u>MEM</u></b> <b><u>Weekend Programme</u></b>		
1.	CH – 501	Chemical Thermodynamics – III
2.	CH – 503	Transport Phenomena
3.	CH – 504	Advanced Process Control
4.	CH – 505	Mathematical Methods
5.	CH – 511	Polymer Processing
6.	CH – 515	Computational Fluid Dynamics
<b><u>MEM</u></b>		
1.	EM – 505	Operations Research
2.	CH – 498	Fundamentals of Chemical Engineering
3.	CH – 507	Thermal Process Engineering

**Department of Earthquake Engineering**

<u>S.No</u>	<u>Code #</u>	<u>Courses</u>
1.	EQ – 505	Structural Reliability Analysis
2.	EQ – 523	Seismic Design of Steel and Composite Structures

**Department of Computer Science & Software Engineering**

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<u>S.No.</u>	<u>Code #</u>	<u>Courses</u>
<b>MS (CSIT)</b>		
1.	CT – 492	Object Oriented Programming
2.	CT – 494	Introduction to Databases
3.	CT – 501	Software Project Management
4.	CT – 502	Theory of Automata
5.	CT – 504	Advanced Numerical Analysis
6.	CT – 521	Distributed Intelligent Systems
7.	CT – 524	Knowledge-Based Systems
8.	CT – 527	Image Processing and Computer Vision
9.	CT – 528	Advanced Database Techniques
10.	CT – 529	Object Oriented Database
11.	CT – 530	Data Mining
<b>MS (IS)</b>		
1.	CT – 492	Object Oriented Programming
2.	CT – 494	Introduction to Databases
3.	CT – 509	Distributed Systems
4.	CT – 510	Algebra and Number Theory
5.	CT – 541	Network Security
6.	CT – 542	Information Security Management
7.	CT – 544	Cyber Crimes and Security
8.	CT – 554	Ethical Hacking
<b>Weekend Programme</b>		
<b>MS (CSIT)</b>		
1.	CT – 492	Object Oriented Programming

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2.	CT – 494	Introduction to Databases
3.	CT – 501	Software Project Management
4.	CT – 503	Operations Research & Optimization
5.	CT – 505	Financial Management
6.	CT – 521	Distributed Intelligent Systems
7.	CT – 524	Knowledge-Based Systems
8.	CT – 527	Image Processing and Computer Vision
9.	CT – 528	Advanced Database Techniques
10.	CT – 561	Natural Language Processing
11.	CT – 562	Machine Learning
12.	CT – 564	Web Intelligence and Big Data
13.	CT – 569	Virtualization and Cloud Computing
<b>MS (IS)</b>		
1.	CT – 492	Object Oriented Programming
2.	CT – 494	Introduction to Databases
3.	CT – 508	Cryptography
4.	CT – 510	Algebra and Number Theory
5.	CT – 539	Advanced Computer Networking
6.	CT – 544	Cyber Crimes and Security
7.	CT -545	Digital Forensics
8.	CT – 546	Secure E-Commerce
9.	CT – 554	Ethical Hacking

**Department of Urban & Infrastructure Engineering**

<b><u>S.No.</u></b>	<b><u>Code #</u></b>	<b><u>Courses</u></b>
<b>MEM (Engineering Management)</b>		
1.	EM – 503	Strategic Planning and Decision Making

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3.	UE – 502	Pavement Asset Management
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**Department of Polymer and Petrochemical Engineering**

<u>S.No.</u>	<u>Code #</u>	<u>Courses</u>
<b>Non-Credit Course</b>		
1.	PP - 401	Introduction to Polymeric Materials
<b>Other Courses</b>		
1.	PP - 511	Advanced Engineering Mathematics
2.	PP - 514	Rheology of Complex Fluids
3.	PP - 526	Fibre Technology
4.	PP - 531	Polymer Characterization

**Department of Humanities**

<u>S.No.</u>	<u>Code #</u>	<u>Courses</u>
<b>MS in Applied Linguistics</b>		
1.	HS - 410	Introduction to Linguistics
2.	HS - 411	Second Language Acquisition
3.	HS - 421	Syllabus Designing & Testing
4.	HS - 501	Second Language Learning & Learning Teaching
5.	HS - 502	Curriculum Development in Language Teaching
6.	HS - 503	Research Methodology in Applied Linguistics
7.	HS - 504	Quantitative Tools for Research
8.	HS – 514	Globalization and Spread of English
9.	HS - 517	Language Teacher Education & Development
<b>MS in Economics and Finance</b>		

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1.	EC – 501	Microeconomic Theory
2.	EC – 505	Financial Accounting
3.	EC - 510	Project Appraisal and Management

**Department of Physics**

<b><u>S.No</u></b>	<b><u>Code #</u></b>	<b><u>Courses</u></b>
1.	PH - 500	Mathematical Physics
2.	PH - 501	Advanced Computational Physics
3.	PH - 504	Electromagnetic Fields - II
4.	PH - 519	Optical Properties of Solids
5.	PH - 522	Research Methodology

**Department of Chemistry**

<b><u>S.No</u></b>	<b><u>Code #</u></b>	<b><u>Courses</u></b>
1.	CY - 501	Unit Operations
2.	CY - 502	Advanced Chemical Kinetics
3.	CY - 505	Advanced Spectroscopic Techniques
4.	CY - 507	Advanced Chromatographic Techniques
5.	CY – 511	Research Methodology
6.	CY - 517	Corrosion Chemistry

**Department of Petroleum Engineering**

<b><u>S.No</u></b>	<b><u>Code #</u></b>	<b><u>Courses</u></b>
1.	PE – 502	Advanced Drilling Engineering
2.	PE - 504	Applied Mathematics in Petroleum Engineering

**Department of BioMedical Engineering**

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<u>S.No</u>	<u>Code #</u>	<u>Courses</u>
1.	BM - 542	Finite Element Analysis
2.	BM - 543	Mechatronics System Design
3.	BM - 553	Advanced Biomechanics
4.	BM - 565	Research Methodology