Level 6 Graduate Diploma in Engineering (9210-01)

Reading list
Civil Engineering
Electrical/Electronic Engineering
Mechanical Engineering
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City & Guilds
1 Giltspur Street
London EC1A 9DD
T +44 (0)20 7294 2800 www.cityandguilds.com
centre@cityandguilds.com
F +44 (0)20 7294 2400
www.cityandguilds.com

centre@cityandguilds.com

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1 About this document

This document contains the recommended reading materials learners can refer to when studying for the Level 6 Graduate Diploma in Engineering (9210-01).

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2  Recommended reading list for the Level 6 Graduate Diploma in Engineering (9210-01)

The reading materials are listed in the following format:

Title – Author(s) – Publisher – ISBN (where available)

Unit 100 Engineering Mathematics

- Engineering Mathematics; John Bird; Elsevier Ltd.; 978-0-75-068555-9
- Advanced Engineering Mathematics: new edition of further engineering; Stroud K A , Booth, Dexter J; 2003; Palgrave Macmillan; 1403903123
- Advanced Engineering Mathematics; Bajpai A C; Mustoe L R; Walker D; 1977; John Wiley; 0471995207

Unit 101 Management for Engineers

- Exploring Corporate Strategy: Text and Cases; Johnson;Scholes; Pearson Education; 0273687344
- Financial Accounting for Non-Specialists; Atrill; Peter; Prentice Hall; 0273655876
- Management and Organisational Behaviour; Mullins FT; Pitman; 0273688766
- The Essence of Business Economics; Parker; Pearson Education; 0135731305
- The Essentials of Project Management; Lock Gower; 0566082241
- Operations Management; Wild Continuum; 0826449271
- Principles of Marketing; Kotler; Saunders; Armstrong; Pearson; 0273684566

Unit 102 Mechanics of Solids and Basic Structural Analysis

- Strength of materials for civil engineers; Megson T.H.G. Edward Arnold; 0340568291
- Strength of materials & structures; Case J.
- Fundamentals of structural analysis ; West; Harry H. John Wiley

Additional Reading

- Strength of materials; G.H.Ryder
- Elements of the theory of structures; Heyman; Jacques. CUP;
- Basic structural theory; Heyman J.
**Unit 103 Hydraulics and Hydrology**

- Civil Engineering hydraulics; Featherstone; Blackwell; 0632055146
- Engineering hydrology; Wilson EM; Macmillan; 0333517172
- Fluid Mechanics; Douglas; Gasiorek; Prentice Hall; 0582414768
- Fluid Mechanics with; Franzini; McGraw-Hill; 007112196X
- Engineering Applications; Finnemore
- Hydraulics in Civil and Chadwick; Spon Press; 0419225803
- Environmental Engineering; Morfett
- Hydrology in Practice; Shaw; Nelson Thornes
- Open Channel Hydraulics; French; McGraw-Hill; 0071133100
- Solving Problems in Fluid; Douglas; Longman; 0582239877
- Mechanics Volume 1; Matthews
- Solving Problems in Fluid; Douglas; Longman
- Mechanics Volume 2; Matthews
- Understanding Hydraulics; Hamill; Palgrave; 0333779061

**Unit 104 Engineering Surveying**

- Surveying; Bannister; Raymond Baker; Longman Higher Education 0582302498
- Surveying for Engineers; Uren; Price Palgrave; 0333577051
- Engineering Surveying: Theory and Examination problems for Students; Schofield; Butterworth-Heinemann; 0750649879

**Additional Reading**

- Engineering Surveying Technology; Kennie; Petrie; Blackie; 0216924820
- Maths for Map Makers; Allan Whittles; Publishing Services; 1870325915
- Surveying for Construction; Irvine; McGraw Hill; 0077079981
- Setting-Out Procedures; Sadgrove; 0408028378

**Unit 105 Soil Mechanics and Engineering Geology**

- Soil mechanics; SI version; John Lambe; T. William
- Basic soil mechanics; Milligan G.W.E.
- A Short course in geology for civil engineers; Matthews M.; Thomas Telford; 9780727733504
- Smith’s Elements of Soil Mechanics [Paperback]; Ian Smith
- Geology for Engineers, Seventh Edition [Paperback]; F.G.H. Blyth, M H de Freitas
- Foundations of Engineering Geology; Tony Waltham

**Additional Reading**

- Engineering properties of soils; Gulhati Shashi
Unit 106 Building Engineering

- Teamwork and Project Management; Smith, Karl.A. (2004); McGraw Hill
- Project Management and leadership skills for engineering and construction projects; Benator, Barry (2003); Fairmont Press
- Building services, technology and design; Greeno,R.,(1997);Longman ; Chartered Institute of Building, 1997

Unit 107 Quantity Surveying

- Quantity surveying; Turner, Dennis F; George Godwin

Additional Reading

- Building quantities explained; Seeley, Ivor H.; McMillan
- Measurement of construction work; Wilcox, Chris; George Godwin
- Estimating construction costs; Peurifoy, R.L.; McGraw-Hill
- Best practice tendering for design and build projects; Griffith, Alan; Thomas Telford

Unit 108 Highway Engineering

- Traffic and Highway Engineering; Garber, Hoel; CL Engineering; 0495082503
- Principles of Traffic and Highway Engineering; Garber, Hoel; Cengage; 9788131512463
- Principles and Practice of Highway Engineering; Kadyali Khanna; Lal; 8174091653
- Highway Traffic Analysis and Design; Sater, Palgrave; Hounsell; 0333609034
- Road Engineering for Development; Robinson, Spon; Thagesen; 0415279488
- Handbook of Road Technology; Lay; Taylor & Francis
- Traffic Engineering and Transport Planning; Kadiyali; Khanna; 817409220X
- Highway and Soil Engineering; Vazirani Chandola; Khanna
- Transport Planning and Traffic Engineering; O’Flaherty; Elsevier; 9788131202784
- Highways: The Location, Design, Construction and Maintenance of Pavements; O’Flaherty; Elsevier; 9788131202777
Unit 109 Irrigation Engineering

- Irrigation Engineering; Sharma; S. Chand; 8121921287
- Irrigation water, Management: Principles and Practice; Majumdar; PHI; 9788120317291
- Irrigation and Water, Resources Engineering; Asawa; Newage; 978812241673X
- Irrigation Engineering; Basak; Tata McGraw Hill; 978007463538X
- Irrigation and Water, Power Engineering; Punmia Laxmi; Lal; 978813180763X

Unit 110 Water and Waste Engineering

- Water supply and sewerage; Steel McGhee; McGraw-Hill; 0070609292
- Wastewater Engineering, Treatment and Reuse; Eddy Metcalf; Tata McGraw-Hill; 0070495394
- Water Supply; Twort, Ratnayaka, Brandt; Arnold / IWA; 0340720182
- Twort’s Water Supply; Ratnayaka, Brandt, Johnson; Elsevier; 9780750668439
- Environmental Engineering; Weiner, Matthews, Vesilind; Elsevier; 0750672943
- Unit Treatment Processes in Water and Wastewater Engineering; Casey, T.J. (997); Chichester, New York: John Wiley
- Theory and Practice of Water and Wastewater Treatment; Droste, R. L. (1997); New York, Chichester: Wiley
- Introduction to Environmental Engineering and Science; Masters, G. M. (1991); New Jersey; Prentice-Hall

Unit 111 Structural Analysis

- Elements of theory of structures; Hayman
- Fundamentals of structural analysis; West H.H.
- Understanding Structures; Seward D; Macmillan, 2nd edition, 1999
- Structures: Theory and Analysis; Williams M, Todd J; Macmillan, 1st edition, 1999

Additional Reading

- Students’ structural handbook; Morgan W.
- Structural engineering handbook; Gaylord, Edwin H
- Foundation analysis & design; Bowel J.E.
Unit 112 Circuits and Waves

- Classical Circuit Theory; Omar Wing; Spinger; 978-0-387-097404,
- Electromagnetics, Second edition; Joseph A. Edminster; McGraw –Hill

Unit 113 Electrical Machines and Electrical Energy System Fundamentals

- Fundamentals Of Electrical Machines; Mohd. Abdus Salam; Alpha Science International Limited, 2005; 1-84265-275-3

Unit 114 Electrical Energy Systems

- Power System Analysis; John J. Grainger, William D. Stevenson; McGraw-Hill; 0- 07-061293-5
- Electric Power Systems; Nasar, S.A.; McGraw-Hill; 0- 07-045917-7
- Alternative Energy Systems; B.K. Hodge. 2009; John Wiley and Sons;

Unit 115 Electrical Machines and Drives

- Electrical Machines And Drive Systems, Third Edition; John Hindmarsh, Alasdair Renfrew; Ad Maiorem Dei Gloriam
- Electric Machinery And Transformers, Third Edition; Bhag S. Guru, Huseyin R. Hiziroglu; Oxford University press
- Electric Motors and Drives -.fundamentals, types and applications, Third Edition; Austin Hughes; ELSEVIER
- Theory And Problems Of Electrical Machines And Electromechanics, Second Edition; Syed A. Nasar; Mc Graw Hill
### Unit 116 Electronics and Telecommunications

- Communication systems: An introduction to signals and noise in electrical communication; Bruce Carlson; McGraw-Hill; 07-085082-2
- Communication Systems: Analogue and Digital; Singh & Sapre; McGraw-Hill; 07-063454-8
- Microelectronics: Digital and Analogue circuits and systems; Millman and Gabrel; McGraw-Hill; 07-463736-3

### Unit 117 Electronic Systems

- Microelectronics: Digital and Analogue circuits and systems; Millman and Gabrel; McGraw-Hill; 07-463736-3
- Digital Integrated Electronics; Taub and Schilling; McGraw-Hill; 07-026508-9
- Pulse, Digital and Switching waveforms; Millman, Taub and Prakash Rao; McGraw-Hill; 07-063463-7
- Digital Design; Morris Mano; Prentice Hall; 10: 0130621218
- Microelectronic Circuits Fifth Edition; Adel S. Sedra and K. C. Smith; 0195142527
- Integrated Electronics: Analogue and Digital Circuits and Systems, J. Millman; 0070854939

### Unit 118 Communication Systems

- Digital Communications Glover; Grant Prentice-Hall; 0130893994
- Telecommunication switching, Traffic and Networks, Flood; Pearson Education; 0130893994
- Transmissions Systems Flood; Cochrane Peregrinus; 0863413102
- Communication Systems; Carlson; McGraw Hill; 007009960
- Modern Digital and Analogue Communication Systems; Lathi; Oxford University Press; 0195110099
- Introduction to Communication Systems; Stremler; Addison Wesley; 0201516519
- Digital Communication; Sklar; Prentice Hall; 0130847887

### Unit 119 Wireless and Mobile Communications

- Wireless Communications: Principles and Practice; Theodore S Rappaport; Prentice-Hall; 81-203-2381-5
- Mobile Cellular Telecommunications Systems; Lee W Y C; McGraw-Hill
- Wireless Communication Technology; R Blake; Thomas Delmar
Unit 120 Computer Programming and Information Systems

- Programme Design; Peter Juliff; Prentice Hall; 81-203-1622-3
- Ivor Horton's Beginning; JavaTM2, JSDKTM5, Wiley India, Ltd, 81-265-0570-2

Unit 121 Computer Networks

- Computer Networks; Andrew S Tanenbaum; Pearson Education Ltd; 0-13-066102-3
- Computer networking: a top-down approach; James F Kurose & Keith W Ross; Pearson Education Ltd; 81-7758-878-8

Unit 122 Web Design and Applications

- Internet and www student manual
- HTML, CSS, JavaScript, Perl, Python, and PHP web standards programmer’s reference; Steven M Schafer; Wiley Publishing Inc.; 81-265-0620-2
- Learning XML: Ray Eric T, O'Reilly

Unit 123 Computer Architecture and Operating Systems

- Computer Organization and Architecture; Linda Null & Julia Lobur; Jones and Bartlett;
- Operating Systems: Internals and Design Principles; William Stallings; Prentice Hall; 10: 0130319996
- Operating systems: design and implementation; Andrew S. Tanenbaum; Prentice-Hall;
- C Programming in Easy Steps, Mike McGrath; 10: 9781840783636

Unit 124 Database Management

- Fundamentals of database systems; R Elmasri & S B Navathe; Addison-Wesley;
- Database system concepts; A Silberschatz, H F Korth & S Sudarshna, McGraw-Hill,
- Fundamentals of database systems; R Elmasri, S B Navathe, Somayajulu and Gupta; Pearson Education;
- Database Systems (5th edition); Connolly & Begg; Addison-Wesley; 0321523067
- Database Solutions (2nd edition); Connolly & Begg; Addison-Wesley; 0321173503.
- Database System Concepts (6th edition); Alvi Silberschatz, Henry F. Korth, S. Sudarshan; McGraw-Hill; 0071289593
- Fundamentals of Database Systems (6th edition); R. Elmasri, Shamkant B. Navathe; Addison-Wesley; 0136086209
Unit 125 Signals and Systems

- Electronic Signals and Systems; Paul A Lynn; Macmillan Education Ltd.; 0 333 47289 6
- An Introduction to the Analysis & Processing of Signals; Lynn, Paul A. (1989)

Unit 126 Information Management

- Principles of Information Systems; Stair R & Reynolds G; Thomas course Technology
- Introduction to Information systems; O’Brien J; McGraw-Hill

Unit 127 Software Engineering

- Software Engineering; Ian Sommerville; Addison-Wesley;
- Software engineering: A practitioner’s approach; Roger S Pressman; McGraw-Hill

Unit 128 Applied Thermodynamics

- Engineering Thermodynamics: Work and Heat Transfer (4th Edition); G.F.C. Rogers and Yon Mayhew; Longman; 0582053765
- Thermodynamic and Transport Properties of Fluids; S I Units Rogers; Mayhew Blackwell; 0631197036
- Applied Thermodynamics for Engineering Technologists; Eastop & McConkey, Longman; 0582091934
- Thermodynamics: An Engineering Approach; Yunus A. Cengel, and Michael A. Boles; McGraw-Hill; 0071250840

Additional Reading:

- Mechanical engineering thermodynamics: a laboratory course; Plint, M.A and Boswirth, L. Charles; Griffin & Co. London; 0852642768
- A Textbook of engineering thermodynamics; Khurmi, R.S., S. Chand, New Delhi

Unit 129 Fluid Mechanics

- Engineering Fluid Mechanics; Robertson & Crowe; Wiley; 0471173061
- Fluid Mechanics; Streeter, Wylie & Bedford; McGraw Hill; 0070665788
- Introduction to Fluid Mechanics; Fox, McDonald; Wiley; 0471124648
- Fundamental Mechanics of Fluids 3E, Iain G. Currie, Marcel Dekker
Additional Reading:

- Solving Problems in Fluid Mechanics Vol. 1; Douglas, Matthews; Longman Higher Education; 0582239877
- Solving Problems in Fluid Mechanics Vol. 2; Douglas, Matthews; Longman Higher Education; 0582239885
- Fluid Mechanics; White; McGraw Hill; 0071168486

**Unit 130 Mechanics of Machines and Strength of Materials**

- Theory of Machine; S S Rattan
- Mechanics of Machines; G H Ryder, M D Bennet
- Strength of Materials; R. S. Khurmi
- Strength of Materials, DR Malhotra, Satya Prakashan; Delhi
- Strength of Materials; Dr. Sadhu Singh
- Mechanics of Materials, 8th Edition; R. C. Hibbeler; Prentice Hall/ Pearson; 9789810685096
- Mechanical Vibrations, 2nd Edition; F. S. Tse, I. E. Morse, R. T. Hinkle; Allyn and Bacon Inc.

**Unit 131 Materials**

- Engineering Materials, Vol 1, An Introduction to their Properties and Applications; Ashby, Jones, Butterworth; Heinemann; 0750630817
- Engineering Materials, Vol 2, An Introduction to Microstructures, Processing and Design; Ashby, Jones, Butterworth; Heinemann; 0750640197
- Elements of Materials Science and Engineering; Van Vlack, Addison; Wesley, 0201093146
- Materials Science and Engineering; Callister; John Wiley; 0471320137
- Manufacturing with Materials; Edwards, Endean; Butterworth-Heinemann; 0750627549
- Materials, Principles and Practice; Newey, Weaver; Butterworth-Heinemann; 0750603909

Additional Reading:

- Introduction to Composite Materials; Hull, Clyne; Cambridge University; 0521388554
- Plastics; Mills, Butterworth-Heinemann; 0340560436
- Selection and Use of Engineering Materials; Crane, Charles; Butterworth-Heinemann; 0750615494
Unit 132 Manufacturing Technology

- Production Technology; Er. R.K. Jain
- CNC Programming: Principles and Applications; Michael W. Mattson
- Computer Numerical Control for Machining; Michael Lynch

Unit 133 Analysis and Design of Manufacturing Technology

- Automation, Production Systems and Computer Integrated; Groover; Longman; HE 0130889784
- Manufacturing Strategy; Terry Hill; Palgrave; 0333762223
- Production and Operations Management; Muhlemann, Oakland, Locklear; Prentice Hall; 0273032356

Unit 134 Hydraulics and Hydraulic Machines

- Mechanics of Engineering Materials; Benham, Crawford, Armstrong; Pearson Higher Education; 0582251648
- Engineering Fluid Mechanics and Hydraulic Machines; K.C. Patra; Alpha Science International Ltd; 1842655345

Additional Reading:

- Mechanics of Materials; Gere, Adin; Nelson Thornes; 0748769897
- Mechanics of Solids and Structures DWA; Rees; World Scientific Pub Co.; 1860942172

Unit 135 Mechanics of Solids

- Mechanics of Engineering Materials; Benham, Crawford, Armstrong; Pearson Higher Education; 0582251648
- Mechanics of Materials, 8th Edition; R.C. Hibbeler; Prentice Hall/Pearson; 9789810685096

Additional Reading:

- Mechanics of Materials Gere, Adin; Nelson Thornes; 0748769897
- Mechanics of Solids and Structures DWA; Rees; World Scientific Pub Co.; 1860942172
Unit 136 Control Systems

- Control Engineering; Bissell, Nelson Thornes - 0412577100
- Control Systems Engineering; Nise; John Wiley; 0471366013

Additional Reading:

- Modern control engineering, 2nd edition; Ogata, Katsuhiko; Englewood Cliffs Prentice Hall; 0135891280

Unit 137 Electro Techniques

- Electronic and Electrical Engineering; Warnes Palgrave; Macmillan; 0333743113
- Electric Motors and Drives; Hughes; Newnes; 0750617411
- Power Electronic Control of AC Motors Murphy; Turnbull; Pergamon Press; 0080226833

Additional Reading:

- Basic Electrical Power & Machines Bradley; Kluwer; Academic Pubs.; 0412455404
- Electrical Machines and Drives; Slemon; Pergamon Press 201578859
- Power Electronics; Mohan, Undeland, Robbins; John Wiley; 0471584088

Unit 138 Quality and Reliability Engineering

- Practical Reliability Engineering; O’Connor; John Wiley; 0470844639
- Reliability Engineering: Theory and Practice; Alessandro Birolini
- Total Quality Management; Oakland; Butterworth-Heinemann; 0750609931
- Metrology for Engineers; Gayler; Shotbolt; 0304306126
- Practical Approach to Quality Control; Caplen; Random House; 0091735815
- Statistical Methods for Quality Improvement; Ryan; John Wiley; 0471197750
- Quality Management for Software; Daily; Blackwell NCC; 1855540827