

ADVANCED DIPLOMA IN ENGINEERING ASSIGNMENTS PART (1)

So the assignments under the lessons in Learning Support Platforms

Advanced Diploma in Electrical Engineering

www.highlightcomputer.com/advdipelectengg.htm

Advanced Diploma in Mechanical Engineering

www.highlightcomputer.com/advdipmechengg.htm

Advanced Diploma in Civil Engineering

www.highlightcomputer.com/advdipcivilengg.htm

ADVANCED DIPLOMA IN ENGINEERING ASSIGNMENTS PART (2)

www.highlightcomputer.com/AdvancedDiplomaTestQuestions.pdf

The followings are the test questions for all units in Advanced Diploma Courses

“Teacher will need to prepare the test questions based on the lessons”

Advanced Diploma in Civil Engineering Exercises Part 2	Advanced Diploma in Electrical Engineering Exercises Part 2	Advanced Diploma in Mechanical Engineering Exercises Part 2
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Advanced Diploma in Civil Engineering

CE101 Mathematics

EE201	Engineering Mathematics
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Mathematics

Maths 1A-Consumer Arithmetic, Rate, Variation

Video

<https://youtu.be/oVCpsmBLt8Q>

Maths 1B-Interest

Video

<https://youtu.be/ebZ8lxKl2Sw>

Maths 1C-Ratio, Direct, Variation

Video

https://youtu.be/aVc7lGd_tVY

Maths 2A-General Arithmetic

Video

<https://youtu.be/l-7P50ksiCU>

Maths 2B-Mathematical Equation

Video

<https://youtu.be/MLfU9ab2yEw>

Maths 3-Real Number

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Maths 4A-Equations and Inequations

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Maths 4B-Equation Problems+ Transportation

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Maths 5-Interpreting Graphics

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Maths 6-Co-ordinate Geometry

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Maths 8-Measurement, Time, Perimeter, Area, Surface Area, Volume

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Maths 12-Further Geometry-The Circle

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Maths 14-Polynomials & Curve Sketching

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ASSIGNMENT

<http://www.highlightcomputer.com/Y9101112Exercises.pdf>

Page 32 to 38

CE102/EE204 Physics

Year 9+10 Physics

Physics-1.Process of Science-Data

Video

<https://youtu.be/DiNtDcqbqf0>

Physics-2.Force in one dimension

Video

https://youtu.be/FkgL5g_ArFs

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Physics-7A. Nuclear Physics

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ASSIGNMENT

<http://www.highlightcomputer.com/Y9101112Exercises.pdf>

Do all Year 9+10 Physics Questions Page 39 to 44

CE 108 / EE101 Electrical Principle

www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 4 to 7 Ref 1 to 16

CE 112 Engineering Mechanics+ ME 301 Applied Mathematics

www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 55 to 58 Do all questions

CE 113 Engineering Drawing

www.mongroupsdney1.com/CE111AGeneralDrawing.pdf

Sketch the following diagrams

Fig 2.15, 2.16, 3.1, 3.2, 3.4, 3.14, 3.15, 3.17, 4.1, 4.2, 4.3, 4.6, 4.8, 5.13, 6.13, 6.16

www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 75 to 84, copy all diagrams

Mgt 101 Management (Mgt 501 Management Brief)

Advanced Diploma in Electrical Engineering

CE 108 / EE101 Electrical Principle

EE103	Basic Electrical Drafting
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 4 to 7 Ref 1 to 16

CE 113 Engineering Drawing

www.mongroupsdney1.com/CE111AGeneralDrawing.pdf

Sketch the following diagrams

Fig 2.15, 2.16, 3.1, 3.2, 3.4, 3.14, 3.15, 3.17, 4.1, 4.2, 4.3, 4.6, 4.8, 5.13, 6.13, 6.16

www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 75 to 84, copy all diagrams

EE104	Electrical Equipments Safety Protection
EE105	Electrical Installation Design

www.highlightcomputer.com/DipElectEnggAssignments.pdf

EE104

Study the notes in EE104 Power Points & do the following exercises.

Q1.Sketch RCD Connection

Q2.Sketch earthing system and earthing arrangement.

Q3.What is the supplementary system for earthing?

Q4. What are the types of earthing systems?

Q5.Sketch the connection diagram for smoke alarm.

- Q6.Why earthing system is provided?
Q7.Sketch the arrangement of an earthing system.
Q8.Write the formula to calculate the voltage drop.
Q9.How will you isolate the live parts?
Q10.What is the meaning of ELCBN

EE105

EE105+107 Power Point Part 1

- Q1.Describe the structure of wiring rules
Q2.Take the practice on problem in presentation 48.

EE110	Computer Applications
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Then read the following e-Books

WORD

ASSIGNMENT (1)

Read the following e-Books

<http://www.filefactory.com/file/125yy7j3lfx/word-2010-advanced-part-i.pdf>

<http://www.filefactory.com/file/6s5l5867349j/word-2010-introduction.pdf>

Take the practice on application of software.

Do the following assignments & submit them by e-mail.

- Follow the instruction given in e-Books, you prepare & present three evidences of documents such as Typed Letters, Table, Diagram etc.

EXCEL

ASSIGNMENT (2)

Read the following e-Books

<http://www.filefactory.com/file/4gx4pj3dgqhp/excel-2010-advanced.pdf>

<http://www.filefactory.com/file/5zq1rlvi1maj/excel-2010-introduction-part-ii.pdf>

Take the practice on application of software.

Do the following assignments & submit them by e-mail.

- Follow the instruction given in e-Books, you prepare & present three evidences of documents such as Table, Diagram , inserting the formula, graphics etc.

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POWERPOINT

ASSIGNMENT (3)

Read the following e-Books

<http://www.filefactory.com/file/6dxoemigs2rn/powerpoint-2010-advanced.pdf>

Do the following assignments & submit them by e-mail.

- Follow the instruction given in e-Books, you prepare & present three evidences of documents of power point presentation. You can insert the typing, diagram, picture, sound, video etc.

EE121	Electronics Power Control Device
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 47 to 51

EE115	Basic Analogue & Digital Electronics
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 36 to 39

EE306	Electro-mechanical Control
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Self study . No needs to submit the assignment.

EE209	Analogue Electronics
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 69 to 72

EE111	Electromagnetism & Basic Electrical Machines
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 20 to 22

EE112	Alternating Current Principle
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 22 to 25

EE113	Electrical Fundamental
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 25 to 30

EE114	Electrical Power Principle
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 32 to 35

EE116	Process Control System
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EE117	Solar Electrical System
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ASSIGNMENT

Q1.Explain the operation principle of PV cell

Q2.Sketch the interconnection of PV modules

Q3.Write the equation for PV power conversion.

Q5. Describe the production procedure of standard silicon solar cell.

Q8.Describe solar radiation and shading assessment.

Q9.Write the equation for manual calculation of irradiation data.

Q10.Sketch the followings (a) Series PV system (b) Parallel PV system (c) PV lighting system

Q11.Sketch PV water pumping system.

EE118	Electrical Energy Supply System
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EE120	Electrical Contracting & Specification
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EE309	Project Management
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Assignment

http://www.mongroupsdney1.com/Advanced_Diploma_in_Electrical_Engineering_Exercises_EE011.pdf

Page 65 Questions 2/3/12/15/16/21/29/32/33/39/46/50/55 to 60

EE201	Engineering Mathematics
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As above

EE202	Electrical Circuits
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 51 to 53

EE203	Three Phase Power Circuits
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 54

EE205	Electrical Power System
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 59 to 61

EE206	AC Machines
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 62 /63

EE207	DC Machine
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 64 to 66

EE208	Operational Amplifiers
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 66 to 68

EE209	Analogue Electronics
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 69 to 72

EE302	Advanced Engineering Mathematics
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<http://www.highlightcomputer.com/y712lessons.htm>

Study all Year 11/12 Maths Lessons

EXERCISES

www.highlightcomputer.com/Y9101112Exercises.pdf

Do Year 11+12 Maths Exercises

EE303	Transmission Line
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 95 to 102

EE304	Power System Protection
EE205	Electric Power System

EE205 Lessons Part 2 is EE304

www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 104 to 118

EE305	Power Transformer
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www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 120 to 123

EE306	Electro-mechanical Control
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Self study. No needs to do assignment.

EE307	Energy Efficient Building Design
EE308	Sustainability

Self study. No needs to do assignment.

EE309

Engineering Project & Management

EE309 Part 1

- Q1.What is cycle of project management?
- Q2.What are the stages in project management?
- Q3.Explain (a) Topology of project (b) strategy in project management.
- Q4.What are the factors causing the success and failure of project?
- Q5.What is the role of project manager?
- Q6.What is quality?
- Q7.Explain quality system documentation.
- Q8.What is element of quality cost?

EE309 Part 2

- Q9.Explain the modelling of project system
- Q10.Explain the project control
- Q11.Explain the project flow control procedure.
- Q12.Explain (a) Pre-job planning (b) Purchasing
- Q13.Explain systematic problem solving model.

EE309 Part 3

- Q14.Explain the followings.
(a) Project structure (b) Project organization (c) Effective team work
- Q15.Write the formulas
(a) Minimum cost schedule (b) Present value (c) Future value
- Q16.Explain (a) Analyzing cost plan (b) Pay back analysis
- Q17.What are the risk analysis techniques?
- Q18.Sketch (a) Project plan graphic form (b) Gantt Chart

EE309 Part 4

- Q19.Write the procedure for preparing the quality plan.
- Q20.Describe management leadership.
- Q21.What are the roles of project manager?

EE309 Part 5

- Q22.Explain (a) Job review (b) Time card
- Q23.Explain (a) System of operation (b) Planning budget
- Q24.Describe change control system
- Q25.Describe the establishment of contract.

EE310	Engineering Officer Competency Report
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Advanced Diploma in Mechanical Engineering

Maths 101	Engineering Mathematics
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CE101 Mathematics

EE201	Engineering Mathematics
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Mathematics

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Maths 1B-Interest

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Maths 1C-Ratio, Direct, Variation

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ASSIGNMENT

<http://www.highlightcomputer.com/Y9101112Exercises.pdf>

Page 32 to 38

ME 101	Applied Mathematics
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Equivalent unit CE 102 Physics+ CE113 Structure

ME101 Specific Lesson Videos

CE102/EE204 Physics

Year 9+10 Physics

Physics-1.Process of Science-Data

Video

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Physics-2.Force in one dimension

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Physics-6.Waves

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Physics-7A. Nuclear Physics

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Do all Year 9+10 Physics Questions Page 39 to 44

ME 106	Electrical Circuits
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CE 108 / EE101 Electrical Principle

CE 108 / EE101 Electrical Principle

www.highlightcomputer.com/DipElectEnggAssignments.pdf

Page 4 to 7 Ref 1 to 16

ME 201	Introduction to Fluid Mechanics
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CE 107 Sanitation-and-Water-supply

VIDEOS

ME201 Fluid Mechanics

Study ME201

Exercises Download Link

www.highlightcomputer.com/DipCivilEnggAssignments.pdf

Page 42

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Page 14 to 15

ME 103	Engineering Mechanics
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ME 101	Applied Mathematics
--------	---------------------

Equivalent unit CE 102 Physics+ CE113 Structure

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ASSIGNMENT

<http://www.highlightcomputer.com/Y9101112Exercises.pdf>

Do all Year 9+10 Physics Questions Page 39 to 44

Electrical workshop

EE102	Basic Electrical Fitting & Wiring
EE103	Basic Electrical Drafting

LESSON VIDEO-MYANMAR+ENGLISH

Lesson 1

<https://youtu.be/zSsvWcnfL8k>

Lesson 2

<https://youtu.be/qzymoBHwc8c>

Lesson 3

<https://youtu.be/iJ7I9WnyRc8>

Lesson 4

<https://youtu.be/DzIyM4QoG7w>

Lesson 5

<https://youtu.be/HVbn9ULdtf8>

Lesson 6

<https://youtu.be/5W-tozOR3r0>

Lesson 7

<https://youtu.be/b13dBzLfYCo>

Lesson 8

<https://youtu.be/ElnP0HKifa4>

Lesson 9

<https://youtu.be/2R7-LA9V0nY>

LESSON VIDEO- ENGLISH

E001+002+005+008+033/ E101+102+105+108+137+G106

Page 128 to 136 of
http://www.filefactory.com/file/cf9bf8f/n/Video_Lessons.pdf

SELF STUDY NO NEEDS TO DO ASSIGNMENT

EE104	Electrical Equipments Safety Protection
EE105	Electrical Installation Design

LESSON VIDEO-MYANMAR+ENGLISH

EE104

<https://youtu.be/P8kOiPOSApU>

EE105	Electrical Installation Design
EE107	Electrical Equipments

LESSON VIDEO-MYANMAR+ENGLISH

www.iqytechnicalcollege.com/EECertDipPart1a.zip

EE105

Lesson 1

https://youtu.be/duJHPsz_oAY

Lesson 2

https://youtu.be/_Vmy5YBeNzY

Lesson 3

<https://youtu.be/aSIpXCrR5-g>

Lesson 4

<https://youtu.be/7AXX4zGkwXQ>

Lesson 5

<https://youtu.be/ojsaRwJ9cjs>

Lesson 6

<https://youtu.be/YmgzYLWtf3U>

Lesson 7

<https://youtu.be/pC3UG8f5kSQ>

LESSON

www.iqytechnicalcollege.com/EECertDipPart1a.zip

EE104

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- Q5. Sketch the connection diagram for smoke alarm.
- Q6. Why earthing system is provided?
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- Q8. Write the formula to calculate the voltage drop.
- Q9. How will you isolate the live parts?
- Q10. What is the meaning of ELCBN

EE105

EE105+107 Power Point Part 1

- Q1. Describe the structure of wiring rules
- Q2. Take the practice on problem in presentation 48.

ME302 Theory of Waves in Materials

Self study. No needs to do the assignment