Jadual 3: Ringkasan Maklumat Setiap Modul / Kursus

**Senarai Kursus Semester 3 / Tahun 2**

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| **BIL** | **KODKURSUS** | **NAMA KURSUS** |
| 1 | DDPQ 2173 | CONSTRUCTION TECHNOLOGY III |
| 2 | DDPQ 2182 | BUILDING SERVICES II |
| 3 | DDPQ 2192 | PRINCIPLES OF STRUCTURE |
| 4 | DDPQ 2234 | MEASUREMENT II |
| 5 | DDPQ 2323  | BUILDING ECONOMICS |
| 6 | UHAD 2022 | ISLAMIC INSTITUTIONS |
| 7 | UHAD 1152 | ETHNIC RELATION |

|  |  |  |
| --- | --- | --- |
| 1 | Course Name | **CONSTRUCTION TECHNOLOGY III** |
| 2 | Course Code | DDPQ 2173 |
| 3 | Name Of Academic Staf | NAME : MOHD AMIR RASHDAN BIN MAT KASHIMQUALIFICATION : BACHELOR OF QUANTITY SURVEYING (HONS.)UNIVERSITY : UNIVERSITI TEKNOLOGI MARA YEAR : 2009 |
| 4 | Rationale Course Included In This Programe | This course is to provide students with skills to allow the evaluation of a range of technologies towards the adoption of an appropriate design decision and knowledge of the centrality of technological decision making in the context of wider construction process. Student will be provided with a platform to develop their communication skills and the ability to work effectively as a team member to achieve mutual objective. |
| 5 | Semester And Year Offered | Semester 3 Year 2 |
| 6 | Total Student Learning Time (SLT) | Teaching And Learning Activities | Student Learning Time (SLT) (hours) |
| 1.Face to face Learning | Lecturer Centred | Lecture | 28 | 56 |
| Student Centred | Practical/Lab/Tutorial | 21 |
| Student Centred Activities | 7 |
| Others | 0 |
| Others | 0 |
| 2.Self Learning | Non Face to Face or Student Centred Learning (SCL) | Assignment, manual, module, e-learning etc. | 25.5 | 59.5 |
| Project work | 5 |
| Others | 0 |
| Revision | 22 |
| Assessment Preparation | 7 |
| Others | 0 |
| 3.Formal Assessment | Continuous Assessment | 2 | 4.5 |
| Final Examination | 2.5 |
| Others | 0 |
| **Total SLT**  | **120** |
|  |
| 7 | Credit Value | 3 credit hours (0 + 2 credit hours others\*)\*others – consist of 28 lecture hours + 28 hours tutorial / SCA.Total contact hours = 56 hours |
| 8 | Pre-Requisite | Construction Technologies II |
| 9 | Course Outcome (CO) | By the end of the course, students should be able to:-CO1: Describe the principles, design concepts, processes and techniques of construction materials and civil engineering construction.CO2: Identify suitable techniques, skills and construction tools in carrying out civil engineering construction. CO3: Sketch the construction techniques and methods used in the construction of civil engineering.CO4: Demonstrate effective communication skills and able to seek and manage information and activities.  |
| 10 | Skills Transfer | **Skills Developed** | **Method Of Assessment** | **Form of Assessment** |
| Show knowledge of the principles, design concepts, processes and techniques of construction materials and civil engineering construction. | Test, Tutorial, Project & Final Exam | Individual  |
| Identify suitable techniques, skills and construction tools in carrying out civil engineering construction. | Test, Tutorial, Project & Final Exam | Individual  |
| Sketch the construction techniques and methods used in the construction of civil engineering. | Test, Tutorial, Project, Final Exam & presentation | Individual  |
| Demonstrate effective communication skills and able to seek and manage information and activities. | Project, Academic visit, Report & presentation | Individual & Team |
|  |
| 11 | Teaching-Leaning and Assessment Strategy | **Teaching & Learning** | **Assessment Strategy** |
| Lecture | Class discussion, e-learning, lab-works, site visit. |
| Tutorial/SCL/Active learning | Group discussion, Assignments, Presentation. |
| Final Project | Submission of Project Work, Presentation |
|  |
| 12 | Synopsis | This course is to develop an understanding of construction materials, infrastructure work, civil engineering structure and special construction. The course will provide students with skills to allow the evaluation of a range of technologies towards the adoption of an appropriate design decision and knowledge of the centrality of technological decision making in the context of wider construction process. Students will be provided with a platform to develop their communication skills and the ability to work effectively as a team member to achieve mutual objective. |
| 13 | Delivery Mode | Lecture and discussion, active and cooperative learning and independent study. |
| 14 | Type And Assessment Method | Assessment consist of Course Work, Project, Academic Visit and Final Examination. The course works are evaluated continuously throughout the semester by lecture and discussion,practice exercises, independent study and group project. Final examination is done formally at the end of the semester, organized by Examination Unit or Commitee. The distribution of course work marks are as follows:-

|  |  |
| --- | --- |
| **Course Works:-**Test 1Test 2TutorialAcademic Visit | **30%**10%10%5%5% |
| **Project** | **10%** |
| **Final Examination** | **60%** |
| **Total** | **100%** |

Criteria of summative assessment performance: Refer to ‘Peraturan Akademik Program Kerjasama Kursus Diploma & Ijazah Sarjana Muda, UTM’. |
| 15 | Course Outcome – Topic Mapping | **Topics of The Course** | **CO1** | **CO2** | **CO3** | **CO4** |
| Earthwork | ✓ | ✓ |  |  |
| External Works | ✓ | ✓ | ✓ |  |
| Road and Pavement | ✓ | ✓ | ✓ |  |
| Basement and Retaining Wall | ✓ | ✓ | ✓ |  |
| Retaining Wall | ✓ | ✓ | ✓ |  |
| Industrialised Building System | ✓ | ✓ | ✓ |  |
| Tunnelling and Subways | ✓ | ✓ | ✓ |  |
| Bridges | ✓ | ✓ | ✓ |  |
| Introduction to Construction Planning and Scheduling | ✓ | ✓ |  | ✓ |
| Introduction to Sustainable Construction | ✓ | ✓ |  | ✓ |
| Introduction to Construction Safety | ✓ | ✓ |  | ✓ |
|  |
| 16 | Programme Outcome – Topic Mapping | **Topics of The Course** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** |
| Earthwork | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| External Works | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| Road and Pavement | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| Basement and Retaining Wall | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| Retaining Wall | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| Industrialised Building System | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| Tunnelling and Subways | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| Bridges | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| Introduction to Construction Planning and Scheduling | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Introduction to Sustainable Construction | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Introduction to Construction Safety | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
|  |
| 17 | Course Content and SLTK: LectureT: TutorialSCA: Student Centred ActivitiesA: AssessmentPK: Self LearningM: Week of Study  | **M** | **TAJUK** | **K** | **T/L**  | **A** | **PK** | **SLT** |
| 1-2 | **1.0 Earthwork**1.1 Bulk, rock and trench excavation1.2 Excavation support 1.3 Soil stabilisation | 4 | 4 | 0 | 9 | 17 |
| 3-4 | **2.0 External Works**2.1 Fencing and gate2.2 Drainage 2.3 Water reticulation2.4 Sewerage reticulation2.5 Landscape | 4 | 4 | 1 | 9 | 18 |
| 5 | **3.0 Road and Pavement**3. 1 Type of road3.2 Method of construction3.3 Road failure3.4 Maintenance3.5 Road furniture | 2 | 2 | 0 | 4 | 8 |
| 6 | **4.0 Basement and Retaining Wall**4.1Types4.2 Tecgnique of construction4.3 Water proofing | 2 | 2 | 1 | 4 | 9 |
| 7 | **5.0 Retaining Wall**5.1 Design principles5.2 Factors and considerations5.3 Types of retaining wall | 2 | 2 | 0 | 3.5 | 7.5 |
| 8 | **6.0 Industrialised Building System**6.1 Modular coordination and dimension6.2 Suitability and connection6.3 Advantages and disadvantages | 2 | 2 | 0 | 4 | 8 |
| 9 | **7.0 Tunnelling and Subways**7.1 Methods of tunnelling7.2 Tunnelling in rock and soft ground7.3 Ventilation and lighting | 2 | 2 | 0 | 4 | 8 |
| 10 | **8.0 Bridges**8.1 Type of bridges8.2 Components of bridge8.3 Method of construction8.4 Joints and water proofing system | 2 | 2 | 0 | 4 | 8 |
| 11-12 | **9.0 Introduction to Construction Planning and Scheduling**9.1 Meaning of project planning and scheduling9.2 The importance of planning and scheduling9.3 Why schedule project9.4 Scheduling and project management | 4 | 4 | 0 | 10 | 18 |
| 13 | **10.0 Introduction to Sustainable Construction**10.1 Principles: concepts and principles, roles and responsibilities of professionals10.2 Introduction to the linkage between property and sustainable development10.3 Features of sustainable construction | 2 | 2 | 0 | 4 | 8 |
| 14 | **11.0 Introduction to Construction safety**11.1 Health and safety in construction context11.2 Accidents causation in construction11.3 Construction safety policy and organisation11.4 Safety management procedures | 2 | 2 | 0 | 4 | 8 |
|  | Final Examination |  |  | 2.5 |  | 2.5 |
|  | **TOTAL** | 28 | 28 | 4.5 | 59.5 | 120 |
|  |
| 18 | References | 1. Ponnuswamy, S. (2008). Bridge Engineering. New Delhi: Tata McGraw-Hill.
2. Chudley, R. (1999).Advance Construction Technology (3rd. Edition). Malaysia: Longman
3. Holmes, R.(1996). Introduction to Civil Engineering Construction. Reading, United Kingdom: College of Estate Management.
4. Meritt, Frederick S. (2004). Standard Handbook for Civil Engineers. New York: McGraw-Hill Professional Publishing.
5. Punmia, B.C. (2003). Basic Engineering. Bangalore:LAXMI Publication.
6. Syed Danish Hasan (2006). Civil Engineering Materials and Their Testing. London: Alpha Science International.
7. W.F.Chen, J.Y.Richard Liew (2002). The Civil Engineering Handbook. London: CRC Press.
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| 19 | Additional Information | None |

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| 1 | Course Name | **BUILDING SERVICES II** |
| 2 | Course Code | DDPQ 2182 |
| 3 | Name Of Academic Staff | NAME : MARWAN KHALIS BIN ABDUL RAHIMQUALIFICATION : BACHELOR OF QUANTITY SURVEYER, UNIVERSITY : UNIVERSITI TEKNOLOGI MALAYSIA (UTM) YEAR : 2010 |
| 4 | Rationale Course Included In This Programe | This course is to introduce students to the principle and method of installation of systematic service system in building structure. Student will be trained to sketch building services engineering drawing and work and communicate effectively with team members to seek and manage information and activities. |
| 5 | Semester And Year Offered | Semester 3 Year 2 |
| 6 | Total Student Learning Time (SLT) | Teaching And Learning Activities | Student Learning Time (SLT) (hours) |
| Face to face Learning | Lecturer Centred | Lecture | 14 | 42 |
| Student Centred | Practical/Lab/Tutorial | 14 |
| Student Centred Activities | 14 |
| Others | 0 |
| Others | 0 |
| Self Learning | Non Face to Face or Student Centred Learning (SCL) | Assignment, manual, module, e-learning etc. | 15 | 34 |
| Project work | 0 |
| Others | 0 |
| Revision | 14 |
| Assessment Preparation | 5 |
| Others | 0 |
| Formal Assessment | Continuous Assessment | 2 | 4 |
| Final Examination | 2 |
| Others | 0 |
| **Total SLT**  | **80** |
|  |
| 7 | Credit Value | 2 credit hours (0 + 2 credit hours others\*)\*others – consist of 14 lecture hours + 14 hours tutorial + 14 hours SCA.Total contact hours = 42 hours |
| 8 | Pre-Requisite | Building Services I |
| 9 | Course Outcome (CO) | By the end of the course, students should be able to:-CO1: Show the principle and method of installation of service system in systematic way.CO2: Sketch building services engineering drawing to prepare a shopping list of components, fittings and accessories of the various building services system. CO3: Display effective communication skills and able to seek and manage information and  activities.CO4: Work effectively in team to accomplish predetermined objective.  |
| 10 | Skills Transfer | **Skills Developed** | **Method Of Assessment** | **Form of Assessment** |
| Sketch building services engineering drawing | Test, Tutorial, Project & Final Exam | Individual  |
| Draw list of components, fittings and accessories of various building services system | Test, Tutorial, Project & Final Exam | Individual  |
| Effective communication skills and team work | Project & presentation | Individual & Team |
|  |
| 11 | Teaching-Leaning and Assessment Strategy | **Teaching & Learning** | **Assessment Strategy** |
| Lecture | Class discussion, e-learning, lab-works, site visit. |
| Tutorial/SCL/Active learning | Group discussion, Assignments, Presentation. |
| Final Project | Submission of Project Work, Presentation |
|  |
| 12 | Synopsis | This course will cover various services system in building which includes fire prevention and fighting system, mechanical conveyors, ventilation and air conditioning, building automation, sewerage disposal system, water reticulation system, electric and telephone system. |
| 13 | Delivery Mode | Lecture and discussion, active and cooperative learning and independent study. |
| 14 | Type And Assessment Method | Assessment consist of Course Work and Final Examination. The course works are evaluated continuously throughout the semester by lecture and discussion, practice exercises, independent study and group project. Final examination is done formally at the end of the semester, organized by Examination Unit or Commitee. The distribution of course work marks are as follows:-

|  |  |
| --- | --- |
| **Course Works:-**Test 1Test 2Assignment/Tutorials | **30%**10%10%10% |
| **Project** | **10%** |
| **Final Examination** | **60%** |
| **Total** | **100%** |

Criteria of summative assessment performance: Refer to ‘Peraturan Akademik Program Kerjasama Kursus Diploma & Ijazah Sarjana Muda, UTM’. |
| 15 | Course Outcome – Topic Mapping | **Topics of The Course** | **CO1** | **CO2** | **CO3** | **CO4** |
| Fire Prevention and Fighting System | ✓ | ✓ | ✓ | ✓ |
| Mechanical Handling System | ✓ | ✓ | ✓ | ✓ |
| Air Conditioning and Ventilation | ✓ | ✓ | ✓ | ✓ |
| Buiding Automation System | ✓ | ✓ | ✓ | ✓ |
| Sewerage Disposal System | ✓ | ✓ | ✓ | ✓ |
| Water, Electric and Telephone Supply System | ✓ | ✓ | ✓ | ✓ |
|  |
| 16 | Programme Outcome – Topic Mapping | **Topics of The Course** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** |
| Fire Prevention and Fighting System | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| Mechanical Handling System | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| Air Conditioning and Ventilation | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| Building Automation System | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| Sewerage Disposal System | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| Water, Electric and Telephone Supply System | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
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| 17 | Course Content and SLTK: LectureT: TutorialSCA: Student Centred ActivitiesA: AssessmentPK: Self LearningM: Week of Study  | **M** | **TAJUK** | **K** | **T/L**  | **A** | **PK** | **S****LT** |
| 1-3 | **1.0 Fire Prevention and Fighting System**1.1 Introduction to fire1.2 Fire safety requirement in building during design process 1.3 Fire Prevention System-types, installation and suitability | 3 | 6 | 0 | 5 | 14 |
| 4-6 | **2.0 Mechanical Handling System (MHS)**2.1 MHS in building2.2 Lift-planning, capacity requirement, component, equipment and installation2.3 Escalator- planning, capacity requirement, component, equipment and installation2.4 Introduction to travellator and other systems | 3 | 6 | 1 | 5 | 15 |
| 7-8 | **3.0 Air Conditioning and Ventilation**3. 1 Ventilation system- requirement, importance and types3.2 Air Conditioning System-types, components and installation | 2 | 4 | 0 | 6 | 12 |
| 9-10 | **4.0 Building Automation System (BAS)**4.1Introduction to BAS-usages, concept, components, advantages, disadvantages and limitation of usage4.2 Introduction to smart building-basic concept, usage, performance and maintenance | 2 | 4 | 1 | 6 | 13 |
| 11-12 | **5.0 Sewerage Disposal System**5.1 Parameters of sewage5.2 Types of Sewerage Disposal System | 2 | 4 | 0 | 6 | 12 |
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|  |  |  |  |  |  |  |
|  |
| 18 | References | 1. Chadderton, D.V.(2007). Building Services Engineering (5th. Edition). New York: Taylor and Francis Group.
2. Hall, F. And Greeno, R.(2007). Building Services Handbook (4th. Edition). Butterworth-Heinemann.
3. Hall, F. And Greeno, R.(2007). Building Services Handbook Incorporating Current Building & Construction regulations (4th. Edition). London: Butterworth-Heinemann.
4. Lah, T.E., O’Connor, S. And Peterson, M. (2002). Building Professional Services. The Siren Song: Prentice Hall.
5. Levermore, G. (2000). Building Energy Management Systems (2nd. Edition). New York: Taylor and Francis Group.
6. Moss, K. (2005). Energy Management in Building (2nd. Edition). New York: Taylor and Francis Group..
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| 19 | Additional Information | None |

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| 1 | Course Name | **PRINCIPLES OF STRUCTURES** |
| 2 | Course Code | DDPQ 2192 |
| 3 | Name Of Academic Staff | NAME : NORSYAZWANA BINTI JENUWAQUALIFICATION : MASTER OF SCIENCE  UNIVERSITI MALAYSIA TERENGGANU 2011 BACHELOR OF QUANTITY SURVEYING (HONS.) UNIVERSITI TEKNOLOGI MALAYSIA 2009 |
| 4 | Rationale Course Included In This Programme | This course is to introduce students to basic structural behavior and requirements of simple structural elements. The course will prepare students to calibrate the theories and empirical methods to design simple structural elements. |
| 5 | Semester And Year Offered | Semester 3 Year 2 |
| 6 | Total Student Learning Time (SLT) | Teaching And Learning Activities | Student Learning Time (SLT) (hours) |
| Face to face Learning | Lecturer Centred | Lecture | 28 | 42 |
| Student Centred | Practical/Lab/Tutorial | 14 |
| Student Centred Activities | 0 |
| Others | 0 |
| Others | 0 |
| Self Learning | Non Face to Face or Student Centred Learning (SCL) | Assignment, manual, module, e-learning etc. | 10 | 34 |
| Project work | 4 |
| Others | 0 |
| Revision | 14 |
| Assessment Preparation | 6 |
| Others | 0 |
| Formal Assessment | Continuous Assessment | 2 | 4 |
| Final Examination | 2 |
| Others | 0 |
| **Total SLT**  | **80** |
|  |
| 7 | Credit Value | 2 credit hours (0 + 2 credit hours others\*)\*others – consist of 28 lecture hours + 14 hours tutorial / SCA.Total contact hours = 42 hours |
| 8 | Pre-Requisite | None |
| 9 | Course Outcome (CO) | By the end of the course, students should be able to:-CO1: Use basic structural behavior.CO2: Apply the requirements of simple structural elements.CO3: Calibrate the theories and empirical methods to design simple structural elements.CO4: Work in team to accomplish basic process design.  |
| 10 | Skills Transfer | **Skills Developed** | **Method Of Assessment** | **Form of Assessment** |
| Design simple structural elements | Test, Tutorial, Project & Final Exam | Individual  |
| Measurement of strength and stability | Test, Tutorial, Project & Final Exam | Individual  |
| Team work | Project & Assignment | Group & Team |
|  |
| 11 | Teaching-Leaning and Assessment Strategy | **Teaching & Learning** | **Assessment Strategy** |
| Lecture | Class discussion, e-learning, lab-works, site visit. |
| Tutorial/SCL/Active learning | Group discussion, Assignments, Presentation. |
| Final Project | Submission of Project Work, Presentation |
|  |
| 12 | Synopsis | This course presents the introduction to statics for simple structural analysis and design. It emphasizes types of structure, basic principle of structure for single beams, trusses and columns. Design processes of timber steel and concrete are introduced to structural elements. |
| 13 | Delivery Mode | Face to face in classroom and Self –Directed Learning.  |
| 14 | Type And Assessment Method | Assessment consist of Course Work and Final Examination. The course works are evaluated continuously throughout the semester by lecture and discussion, practice exercises, independent study and group project. Final examination is done formally at the end of the semester, organized by Examination Unit or Committee. The distribution of course work marks are as follows:-

|  |  |
| --- | --- |
| **Course Works:-**Test 1Test 2Assignment | **30%**10%10%10% |
| **Project** | **10%** |
| **Final Examination** | **60%** |
| **Total** | **100%** |

Criteria of summative assessment performance: Refer to ‘Peraturan Akademik Program Kerjasama Kursus Diploma & Ijazah Sarjana Muda, UTM’. |
| 15 | Course Outcome – Topic Mapping | **Topics of The Course** | **CO1** | **CO2** | **CO3** | **CO4** |
| Introduction to structure | ✓ |  |  |  |
| Basic principles of structures | ✓ | ✓ |  |  |
| Shear force and bending moment for simple beams | ✓ | ✓ | ✓ |  |
| Plane truss | ✓ | ✓ | ✓ |  |
| Columns | ✓ | ✓ | ✓ |  |
| Timber structure | ✓ | ✓ | ✓ |  |
| Design of steel | ✓ | ✓ | ✓ | ✓ |
| Design of reinforce concrete | ✓ | ✓ | ✓ | ✓ |
| Brick and block wall design | ✓ | ✓ | ✓ | ✓ |
| Design of foundation | ✓ | ✓ | ✓ | ✓ |
|  |
| 16 | Programme Outcome – Topic Mapping | **Topics of The Course** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** |
| Introduction to structure | ✓ |  |  |  |  |  |  |  |  |
| Basic principles of structures | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| Shear force and bending moment for simple beams | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| Plane truss | ✓ | ✓ | ✓ |  |  |  |  |  |  |
| Columns | ✓ | ✓ | ✓ |  |  |  |  |  |  |
| Timber structure | ✓ | ✓ | ✓ |  |  |  |  |  |  |
| Design of steel | ✓ | ✓ | ✓ |  |  |  |  |  |  |
| Design of reinforce concrete | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| Brick and block wall design | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
| Design of foundation | ✓ | ✓ | ✓ | ✓ |  |  |  |  |  |
|  |
| 17 | Course Content and SLTK: LectureT: TutorialSCA: Student Centred ActivitiesA: AssessmentPK: Self LearningM: Week of Study  | **M** | **TAJUK** | **K** | **T/L**  | **A** | **PK** | **SLT** |
| 1 | **1.0 Introduction to Structure**1.1 The structural design1.2 Strength, stability and servicesibility of structures 1.3 Empirical application methods in structural design | 2 | 1 | 0 | 2 | 5 |
| 2 | **2.0 Basic Principles of Structures**2.1 Forces2.2 Moments2.3 Stress-strain2.4 Elastic and plastic range2.5 Loads | 2 | 1 | 1 | 2 | 6 |
| 3-4 | **3.0 Shear Force and Bending Moment for Simple Beams**3.1 Reactions 3.2 Shear force3.3 Bending moments3.4 Shear and bending moment diagrams3.5 Flexural theory of beam3.6 Deflection of beam | 4 | 2 | 0 | 4 | 10 |
| 5 | **4.0 Plane Truss**4.1Force vector components 4.2 Forces in members | 2 | 1 | 0 | 2 | 5 |
| 6 | **5.0 Columns**5.1 Failure modes of column5.2 Slenderness ration5.3 Effective length of columns | 2 | 1 | 1 | 2 | 6 |
| 7 | **6.0 Timber Structure**6.1 Grade, strength and dimension6.2 Design of timber beam and column | 2 | 1 | 0 | 2 | 5 |
| 8-9 | **7.0 Design of Steel**7.1 Types of steel section and strength7.2 Design requirements in steel structures7.3 Tables used in steel design7.4 Steel beam design using flexure theory7.5 Column design  | 4 | 2 | 0 | 4 | 10 |
| 10 | **8.0 Design of Reinforce Concrete**8.1 General requirements8.2 Loads and factor of safety8.3 Strength of materials8.4 Shear stress: reinforcement and cover8.5 Design parameter according to BS 81108.6 Design charts8.7 Design of beam, slab and column | 2 | 1 | 0 | 4 | 7 |
| 11-12 | **9.0 Brick and Block Wall Design**9.1 Strength of bricks and blocks9.2 Factors considered for brick wall and block design | 4 | 2 | 0 | 6 | 12 |
| 13-14 | **10.0 Design of Foundation**10.1 Introduction10.2 Design | 4 | 2 | 0 | 6 | 12 |
|  | Final Examination |  |  | 2 |  | 2 |
|  | **TOTAL** | 28 | 14 | 4 | 34 | 80 |
|  |
| 18 | References | 1. Arya, C. (2009). Design of Structural Elements: Concrete, Steelworks, Masonry and Timber Design to British Standard and Euro Codes. New York: Taylor & Francis.
2. Hough, R., Wyatt K.J. (2003). Principles of Structures (4th. Edition). Kensington, New South Wales: UNSW Press.
3. McCormac, Jack C. (2008). Structural Steel Design (4th. Edition). Upper Saddle River, New Jersey: Pearson/Prentice Hall.
4. Salmon, Charles G. (2001). Steel Structure: Design and Behavior. Upper Saddle River, New Jersey: Prentice Hall.
5. Saran, S. (2006). Analysis and Design of Substructure. London, United Kingdom: Taylor & Francis.
6. Peyton, R.X. & Rubio, T.C. (2000). Construction safety: Practices and Principles. New York: Van Nostrand Reinhold.
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| 19 | Additional Information | None |

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| --- | --- | --- |
| 1 | Course Name | **MEASUREMENT II** |
| 2 | Course Code | DDPG 2234 |
| 3 | Name Of Academic Staff | NAME : NIK NUR ‘ATIQAH BINTI MOHD BASHIRQUALIFICATION : BACHELOR OF QUANTITY SURVEYER, UNIVERSITY : UNIVERSITI TEKNOLOGI MALAYSIA (UTM) YEAR : 2013 |
| 4 | Rationale Course Included In This Course | The aim of the course is to equip the students with the knowledge and skills of measurement and quantification of building works to complement the needs of the profession. This course will further develop the knowledge, understanding and the skill of measurement of construction works according to the current SMM for Building Works for the purpose of preparation of bills of quantities and estimating. The course will focus on the application of the principles of measurement and quantification of low rise building works. |
| 5 | Semester And Year Offered | Semester 3, Year 2 |
| 6 | Total Student Learning Time (SLT) | Teaching And Learning Activities | Student Learning Time (SLT) (hours) |
| Face to face Learning | Lecturer Centred | Lecture | 28 | 98 |
| Student Centred | Practical/Lab/Tutorial | 42 |
| Student Centred Activities | 28 |
| Others |  |
| Self Learning | Non Face to Face or Student Centred Learning (SCL) | 22 | 52 |
| Revision( 11 hours lecture x2) | 20 |
| Assessment Preparation(1 hourx2 ) | 10 |
| Others |  |
| Formal Assessment | Continuous Assessment | Quizzes | 10 | 10 |
| Test |  |
| Final Examination |  |
| Others |  |
| **Total SLT**  | **160** |
|  |
| 7 | Credit Value | 2 credit hours (2 +2 credit hours others\*)\*others – consist of 28 lecture hours + 48 hours tutorial +28 hours SCA.Total contact hours = 98 hours |
| 8 | Pre-Requisite | None |
| 9 | Course Outcome (CO) | By the end of the course, students should be able to:-CO1: Apply the concept and principles of measurement and quantification of low rise building works as stipulated in the current SMM used in Malaysia.CO2: Illustrate the principle of measurement of low rise building works as stipulated in the current SMM.CO3: Measure the low price building works based on the related sections in the current SMM.CO4: Manipulated the computer aided measurement software for measurement of low rise building work.CO5: Work effectively in a team |
| 10 | Skills Transfer | **Skills Developed** | **Method Of Assessment** | **Form of Assessment** |
| Reading Academic Text | Note-Making, (PR),FE | Individual  |
| Communication | Impromptu speech,Group Discussion | Individual & team |
| Written Discourse | Paragraph and Essay Writing | Individual |
| MyLine Search Materials | MyLine Self Access | Individual |
|  |
| 11 | Teaching-Leaning and Assessment Strategy | **Teaching & Learning** | **Assessment Strategy** |
| Lecture | Library visit, Free Topic Discussion |
| Tutorial/SCL/Active learning | Impromptu Speeech, |
| Final Project | Submission of Project work |
|  |
| 12 | Synopsis | The aim of the course is to equip the students with the knowledge and skills of measeurement and quantification of building works to complement the needs of the profession. This course will further develop the knowledge, understanding and the skill of measurement of construction works according to the current SMM for Building Works for the purpose of preparation of bills of quantities and estimating. The course will focus on the application of the principles of measurement and quantification of low rise building works. |
| 13 | Delivery Mode | Face to face in classroom and Self –Directed Learning.  |
| 14 | Type And Assessment Method | Assessment consist of Course Work and Final Examination. The course works are evaluated continuously throughout the semester by lecture and discussion, practice exercises, independent study and group project. Final examination is done formally at the end of the semester, organized by Examination Unit or Committee. The distribution of course work marks are as follows:-

|  |  |
| --- | --- |
| **Course Work:-**Studio WorkProjectTestsQuiz | **40%**10%5%20%5% |
| **Final Examination** | **60%** |
| **Total** | **100%** |

Criteria of summative assessment performance: Refer to ‘Peraturan Akademik Program Kerjasama Kursus Diploma & Ijazah Sarjana Muda, UTM’. |
| 15 | Course Outcome – Topic Mapping | **Topics of The Course** | **CO1** | **CO2** | **CO3** | **CO4** | **CO5** |
| Concrete Works in Staircase | ✓ |  |  |  |  |
| Wall, Floor and Ceiling finishes  | ✓ |  |  | ✓ | ✓ |
| Doors and windows  | ✓ |  |  | ✓ | ✓ |
| Partitions and Built-in fitments | ✓ |  |  | ✓ | ✓ |
| Cold water installaion including plant, equipment and accessories | ✓ | ✓ |  | ✓ | ✓ |
| Soil and waste disposal installation including sanitary appliances, equipment and accessories | ✓ |  |  | ✓ |  |
| Underground drainage system including inspection chambers | ✓ |  |  | ✓ |  |
| Overview and simple application of the computert-aided measurement software | ✓ |  |  |  |  |
|  |
| 16 | Programme Outcome – Topic Mapping | **Topics of The Course** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** |
| Concrete Works in Staircase | ✓ |  |  | ✓ |  |  | ✓ |  |  |
| Wall, Floor and Ceiling finishes  | ✓ |  |  | ✓ |  |  | ✓ |  |  |
| Doors and windows  | ✓ |  |  | ✓ |  |  | ✓ |  |  |
| Partitions and Built-in fitments | ✓ |  |  | ✓ |  |  | ✓ |  |  |
| Cold water installation including plant, equipment and accessories | ✓ |  |  | ✓ |  |  | ✓ |  |  |
| Soil and waste disposal installation including sanitary appliances, equipment and accessories | ✓ |  |  | ✓ |  |  | ✓ |  |  |
| Underground drainage system including inspection chambers | ✓ |  |  | ✓ |  |  | ✓ |  |  |
| Overview and simple application of the computer-aided measurement software | ✓ |  |  | ✓ |  |  | ✓ |  |  |
|  |
| 17 | Course Content and SLTK: LectureT: TutorialSCA: Student Centred ActivitiesA: AssessmentPK: Self LearningM: Week of Study  | **M** | **TAJUK** | **K** | **T/L SCA** | **A** | **PK** | **SLT** |
| 1-2 | **1.0 Concrete Works in Staircase** | 2 | 5 | 1 | 4 | 12 |
| 3-4 | **2.0 Wall, Floor and Ceiling finishes**  | 2 | 6 | 1 | 4 | 13 |
| 5-6 | **3.0 Doors and windows**  | 4 | 9 | 1 | 8 | 22 |
| 7 | **4.0 Partitions and Built-in fitments** | 4 | 10 | 1 | 8 | 23 |
| 8 |  **MID SEMESTER BREAK** |
| 9-10 | **5.0 Cold water installation including plant, equipment and accessories** | 4 | 10 | 1 | 8 | 23 |
|  |  |  |  |  |  |  |
| 12-13 |  | 4 | 10 | 2 | 7 | 23 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |
| 18 | References | 1. Seeley, I.V. and Roger Winfield (2004). Building Quantities Explained (5th Edition). London: Macmillan Press Ltd.
2. Ahamad Abdullah & Khairuddin Abd. Rashid (2003). Pengukuran Kuantiti Bangunan. Pearson Prentice Hall.
3. The Institution of Surveyors Malaysia (2000). Standard Method of Measurement Second Edition (SMM2). Malaysia: Winston Enterprise.
4. The Institution of Surveyors Malaysia (2000). Standard Method of Measurement Second Edition (SMM2)- Practice Manual. Malaysia: Winston Enterprise.
5. Rosli Abdul Rashid (1987). Pengenalan Kepada Ukur Kuantiti Binaan 1. Johor Bahru: Pusat Sumber FAB, UTM.
6. Willis C. J. Newman, D (2001). Elements of Quantity Surveying. London BSP Professional.
 |
| 19 | Additional Information | None |

|  |  |  |
| --- | --- | --- |
| 1 | Course Name | **BUILDING ECONOMICS** |
| 2 | Course Code | DDPG 2323 |
| 3 | Name Of Academic Staf | NAME : MOHD HAFIZULLAH BIN ZAKARIAQUALIFICATION : IJAZAH SARJANA MUDA UKUR BAHANUNIVERSITY : UiTM,MALAYSIA YEAR : 2008 |
| 4 | Rationale Course Included In This Course | The aim of this course is to develop student knowledge and understanding of the philosophy and concept of building economics in relation to costing and price analysis. The course covers the general aspects of building economics and factors influencing construction costs, different types of cost information such as cost data, cost model and cost index. This course will cover all aspects of cost management during pre-construction and construction stages of project development. |
| 5 | Semester And Year Offered | Semester 3, Year 2 |
| 6 | Total Student Learning Time (SLT) | Teaching And Learning Activities | Student Learning Time (SLT) (hours) |
| Face to face Learning | Lecturer Centred | Lecture | 28 | 56 |
| Student Centred | Practical/Lab/Tutorial | 14 |
| Student Centred Activities | 14 |
| Others |  |
| Others |  |
| Self Learning | Non Face to Face or Student Centred Learning (SCL) | 30 | 60 |
| Revision( 10 hours lecture x2) | 22 |
| Assessment Preparation(1 hourx2 ) | 8 |
| Others |  |
| Formal Assessment | Continuous Assessment | Test 1 & 2 | 1 | 4 |
| Assignment | 0.5 |
| Quizzes | 0.5 |
| Final Examination | 2 |
| Others |  |
| **Total SLT**  | **120** |
|  |
| 7 | Credit Value | 3 credit hours (1 + 2 credit hours others\*)\*others – consist of 28 lecture hours + 28 hours tutorial / SCA.Total contact hours = 56 hours |
| 8 | Pre-Requisite | None |
| 9 | Course Outcome (CO) | By the end of the course, students should be able to:-CO1: Prepare the various stages of construction project development and the process of cost management within framework.CO2: List the factors which determine and influence building and construction costs.CO3: Manipulate the principles of design economics to practical design exercises.CO4: Display the different types of construction costs data to be used in the costing process and differences.CO5: Comprehend the purpose and use of building cost and the tender price indices. CO6: Display the effective and communication ideas clearly and logically in spoken and written form.CO7: Work effectively as a team. |
| 10 | Skills Transfer | **Skills Developed** | **Method Of Assessment** | **Form of Assessment** |
| Reading Academic Text | Note-Making, (PR),FE | Individual  |
| Communication | Impromptu speech,Group Discussion | Individual & team |
| Written Discourse | Paragraph and Essay Writing | Individual |
| MyLine Search Materials | MyLine Self Access | Individual |
|  |
| 11 | Teaching-Leaning and Assessment Strategy | **Teaching & Learning** | **Assessment Strategy** |
| Lecture | Library visit, Free Topic Discussion |
| Tutorial/SCL/Active learning | Impromptu Speech, |
| Final Project | Submission of Project work |
|  |
| 12 | Synopsis | The aim of this course is to develop student knowledge and understanding of the philosophy and concept of building economics in relation to costing and price analysis. The course covers the general aspects of building economics and factors influencing construction costs, different types of cost information such as cost data, cost model and cost index. This course will cover all aspects of cost management during pre-construction and construction stages of project development. |
| 13 | Delivery Mode | Face to face in classroom and Self –Directed Learning.  |
| 14 | Type And Assessment Method | Assessment consist of Course Work and Final Examination. The course works are evaluated continuously throughout the semester by lecture and discussion, practice exercises, independent study and group project. Final examination is done formally at the end of the semester, organized by Examination Unit or Committee. The distribution of course work marks are as follows:-

|  |  |
| --- | --- |
| **Course Work:-**Test 1 and 2AssigmentQuiz | **40%**20%10%10% |
| **Final Examination** | **60%** |
| **Total** | **100%** |

Criteria of summative assessment performance: Refer to ‘Peraturan Akademik Program Kerjasama Kursus Diploma & Ijazah Sarjana Muda, UTM’. |
| 15 | Course Outcome – Topic Mapping | **Topics of The Course** | **CO1** | **CO2** | **CO3** | **CO4** | **CO5** |
| Introduction | ✓ |  |  |  |  |
| Microeconomics | ✓ |  |  | ✓ | ✓ |
| Macroeconomics | ✓ |  |  | ✓ | ✓ |
| Introduction to Building Economics | ✓ |  |  | ✓ | ✓ |
| Design Economics  | ✓ | ✓ |  | ✓ | ✓ |
| Cost Data | ✓ |  |  | ✓ |  |
| Indices and Trends | ✓ |  |  | ✓ |  |
|  |
| 16 | Programme Outcome – Topic Mapping | **Topics of The Course** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** |
| Introduction | ✓ |  |  | ✓ |  |  | ✓ |  |  |
| Microeconomics | ✓ |  |  | ✓ |  |  | ✓ |  |  |
| Macroeconomics | ✓ |  |  | ✓ |  |  | ✓ |  |  |
| Introduction to Building Economics | ✓ |  |  | ✓ |  |  | ✓ |  |  |
| Design Economics  | ✓ |  |  | ✓ |  |  | ✓ |  |  |
| Cost Data | ✓ |  |  | ✓ |  |  | ✓ |  |  |
| Indices and Trends | ✓ |  |  | ✓ |  |  | ✓ |  |  |
|  |
| 17 | Course Content and SLTK: LectureT: TutorialSCA: Student Centred ActivitiesA: AssessmentPK: Self LearningM: Week of Study  | **M** | **TAJUK** | **K** | **T/L SCA** | **A** | **PK** | **SLT** |
| 1-2 | 1. **Introduction**
	1. Scarcity and Opportunity costs
	2. Resource allocation
 | 2 | 3 |  | 7 | 12 |
| 2-4 | 1. **Microeconomics**
	1. The economics of opportunity costs
	2. Supply and demand- Determinants of demand and supply curve, Market Equilibrium and Elasticity
	3. Firm Production, Cost & Revenues- Production function, Costs, Revenues and maximizing profits
	4. Market Model- From Perfect Competition to Monopoly
 | 3 | 3 | 1 | 8 | 15 |
| 5-7 | 1. **Macroeconomics**
	1. The income and output of nation- National Income accounting, output determination, economic growth, fiscal policy and aggregate demand, monetary policy and aggregate demand
	2. Inflation Unemployment- Couses and costs of inflation & couses and costs unemployment
	3. International Trade- Exchange rates and balance of the foreign trade and output determination
 | 3 | 4 | 1 | 9 | 17 |
| 8 |  **MID SEMESTER BREAK** |
| 9 | 1. **Introduction to Building Economics**
	1. Introduction to the philosophy of building economics
	2. The importance of cost management
	3. Building economics and its terminology
	4. Cost management and the concept of cost, price, profit, value, feasibility, viability and profitability
	5. Development framework and application of cost management at various stages (Planning, Design, Procurement, Construction)
 | 4 | 4 | 1 | 9 | 18 |
| 11-12 | 1. **Design Economics**
	1. Concept of value for money in construction projects and cost implication of clients’ requirements for their projects
	2. Cost implication of design variable, plan shape, height, storey height, circulation space etc.
	3. Factors affecting cost of building elements, components and engineering services
	4. Cost implications of construction methods, industrialization and constructability
	5. Cost implication of local authorities’ requirements
	6. Influence of site (location, size, shape, ground condition etc.) on construction costs
	7. Other factors influencing costs; market conditions, procurement system, contract conditions, unpredictable item etc.
 | 5 | 4 |  | 9 | 18 |
| 12-13 | 1. **Cost Data**
	1. Characteristics and structural hierarchy of cost data
	2. Types and sources of cost data-e. G. Priced books, public sector price guides, priced bill of quantities, cost analysis, periodical cost information, BCIS and the current sources
	3. Usage of cost data, its reliability and accuracy and consistency
	4. Cost feedback
 | 6 | 5 |  | 9 | 20 |
| 14-15 | 1. **Indices and Trends**
	1. Types and sources of cost indices
	2. Application and use of cost indices
	3. Constructing an index
	4. Measuring trends
 | 5 | 5 |  | 9 | 19 |
|  | Final Examination |  |  | 1 |  | 1 |
|  | **TOTAL** | 28 | 28 | 4 | 60 | 120 |
|  |
| 18 | References | 1. Ashworth, A. (2008) Pre-contracs Studies (3rd Edition). New York: Longman.
2. Ashworth, A. (2004) Cost Studies of Buildings (4th Edition). New York: Longman.
3. Ferry, D. J., Brandon P. S. & Ferry, J. D. (2007). Cost Planning of Buildings (8th Edition). London: Blackwell Science.
4. Flanagan, R. & Tate, B. (1997). Cost Control in Building Design. London: Blackwell Science.
5. Gruneberg, S. L. (1997). Contruction Economics. London: Macmillan Press Ltd.
 |
| 19 | Additional Information | None |

|  |  |  |
| --- | --- | --- |
| 1 | Nama Kursus | **Institusi-Institusi Islam** |
| 2 | Kod Kursus | UHAD 2022 |
| 3 | Nama Staf Akademik | NAMA :ABDUL RAHHIM BIN ABDUL WAHABKELULUSAN :IJAZAH SARJANA SYARIAHUNIVERSITI :UNIVERSITI KEBANGSAAN MALAYSIATAHUN BERGRADUAT : 2012KELULUSAN : IJAZAH SARJANA MUDA SYARIAHUNIVERSITI : UNIVERSITI YARMOUK, JORDANTAHUN BERGRADUAT : 2006 |
| 4 | Rasional kursus dimasukkan dalam program ini | Kursus ini diperlukan untuk menjelaskan tentang prinsip dan fungsi institus-institusi Islam dalam kehidupan Muslim sebagai asas pembentukan masyarakat yang beriman dan bertakwa.Kursus ini juga merupakan kursus umum wajib yang penting bagi membolehkan pelajar membezakan di antara institusi-institusi Islam dan barat.  |
| 5 | Semester dan tahun ditawarkan | Semester 3 / Tahun 2 |
| 6 | Jumlah masa belajar pelajar (SLT)K: KuliahT: TutorialP: PraktikalL: Lain-lain | Secara Bersemuka/Bimbingan | Pembelajaran Kendiri | Jumlah Pembelajaran Secara Bimbingan Dan Kendiri (SLT) |
| K | T | P | L |
| 28 | 0 | 0 | 2 | 50 | 80 |
| 7 | Nilai Kredit | 2 jam kredit (2 jam kredit kuliah)2 jam kontak kuliah x 14 minggu = 28 jamJumlah jam kontak = 28 jam |
| 8 | Pra Syarat | Tiada |
| 9 | Hasil Pembelajaran (CO) | Selepas menamatkan kursus ini, pelajar sepatutnya boleh:- |
| CO1: | Menjelaskan prinsip dan fungsi institusi Islam dalam kehidupan Muslim.  |
| CO2: | Menghuraikan peranan institusi keluarga Islam sebagai asas pembentukan masyarakat yang beriman dan bertakwa. |
| CO3: | Menerangkan hubung jalin institusi pendidikan dengan institusi dalam Islam. |
| CO4: | Menghuraikan perbezaan di antara institusi-institusi Islam dan barat. |
| 10 | Pemindahan Kemahiran | **Kemahiran Yang Dibangunkan** | **Kaedah Penilaian** | **Bentuk Penilaian** |
| Meningkatkan pengetahuan. | Tugasan, ujian, kuiz, peperiksaan akhir. | Individu & berkumpulan |
| Menggunakan sistem komputer dan ICT. | Tugasan. | Berkumpulan |
| Komunikasi secara lisan. | Soal-jawab, perbincangan. | Individu & berkumpulan |
| Pengurusan masa. | Tugasan, ujian, kuiz, peperiksaan akhir. | Individu & berkumpulan |
| 11 | Pengajaran-Pembelajaran (PnP) dan Strategi Penilaian | **Pembelajaran & Pengajaran** | **Strategi Penilaian** |
| Kuliah | Tugasan, ujian, kuiz, peperiksaan akhir. |
| Tugasan | Pembahagian tugasan, soal-jawab, perbincangan. |
| 12 | Sinopsis | Kursus ini membincangkan tentang institusi keluarga, institusi keibubapaan, institusi sosial dalam Islam, institusi pendidikan, institusi ekonomi Islam, institusi perundangan dan institusi politik. |
| 13 | Mod Penyampaian | Kuliah, soal-jawab, perbincangan dua hala dan penerapan nilai di dalam bilik kuliah. |
| 14 | Jenis Dan kaedah Penilaian | Penilaian dibuat melalui markah kerja kursus dan peperiksaan akhir. Markah kerja kursus dinilai sepanjang semester melalui tugasan, ujian dan kuiz, manakala peperiksaan akhir dibuat secara formal di akhir semester dan dikendalikan oleh unit atau Jawatankuasa Peperiksaan yang dilantik.Pecahan markah bagi kerja kursus dan peperiksaan akhir adalah seperti berikut:- |
| **MARKAH KERJA KURSUS:-**TugasanUjian Kuiz | **40%**15%15%10% |
| **PEPERIKSAAN AKHIR** | **60%** |
| **JUMLAH** | **100%** |
| Kriteria prestasi penilaian summatif: Rujuk buku ‘Peraturan Akademik Program Kerjasama Kursus Diploma & Ijazah Sarjana Muda, UTM’. |
| 15 | Pemetaan Kursus Kepada Hasil Pembelajaran Kursus (CO) | **Bab** | **Tajuk Kursus** | **CO1** |  **CO2** | **CO3** | **CO4** |
| 1 | Institusi Keluarga. | √ | √ |  | √ |
| 2 | Institusi Keibubapaan. | √ | √ |  |  |
| 3 | Institusi Sosial Dalam Islam. | √ | √ |  | √ |
| 4 | Institusi Pendidikan. | √ | √ | √ | √ |
| 5 | Institusi Ekonomi Islam. | √ |  |  | √ |
| 6 | Institusi Perundangan. | √ |  | √ | √ |
| 7 | Institusi Politik. | √ |  |  | √ |
|  |
| 16 | Pemetaan Kursus Kepada Hasil Pembelajaran Program (PO) | **Bab** | **Tajuk Kursus** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** |
| 1 | Institusi Keluarga. | √ | √ |  |  | √ |  |  | √ |  |
| 2 | Institusi Keibubapaan. | √ | √ |  |  | √ |  |  | √ |  |
| 3 | Institusi Sosial Dalam Islam. | √ | √ |  |  | √ |  |  | √ |  |
| 4 | Institusi Pendidikan. | √ | √ |  |  | √ |  |  | √ |  |
| 5 | Institusi Ekonomi Islam. | √ | √ |  |  | √ |  |  | √ |  |
| 6 | Institusi Perundangan. | √ | √ |  |  | √ |  |  | √ |  |
| 7 | Institusi Politik. | √ | √ |  |  | √ |  |  | √ |  |
|  |
|  |
| 18 | Rujukan | Rujukan Utama:1. Wan Ali Wan Jusoh et al (2005), *Institusi-Institusi Islam*. K.Lumpur: Syarikat Meza.

Rujukan TambahanAl-Attas, Syed Mohd Naquib (1972), *Islam Dalam Sejarah Dan Kebudayaan Melayu.* Bangi: Universiti Kebangsaan Malaysia.Al-Attas, Syed Mohd Naquib (1980), *The Concept Of Education In Islam*. K.Lumpur: Angkatan Belia Islam Malaysia.Al-Qaradawi, Yusuf (1998), *Peranan Nilai Akhlak Dalam Ekonomi Islam.*K.Lumpur: Angkatan Belia Islam Malaysia.Al-Faruqi, Ismail (1992), *Atlas Budaya Islam*. K.Lumpur: Dewan Bahasa Dan Pustaka.Khursid Ahmad (1982), *Family Of Islam.* London: Islamic Foundation. |
| 19 | Maklumat Tambahan | Pendetailan Dalam Pemarkahan:a. Setiap tugasan mesti mengandungi : |
| **Bil** | **Perkara** | **Bil. Muka Surat** | **Markah** |
| 1 | Muka Depan. | 1 | 1 |
| 2 | Pendahuluan. | 1 | 1 |
| 3 | Ringkasan Tajuk. | 5 | 10 |
| 4 | Penutup. | 1 | 1 |
| 5 | Rujukan. | Minima 5 Buku. | 1 |
| 6 | Kekemasan Tugasan. | Tiada Kesalahan Ejaan. | 1 |
| Jumlah: | **15 %** |
|  i. Kumpulan : 3 @ 4 orang. ii. Muka Depan :* + - * 1. Nama & Kod Subjek. **f.** Page number : Center bawah.
				2. Tajuk Tugasan. **g.** Font : 12, Times New Roman.
				3. Nama Pensyarah.**h.** Spacing : 1.5, Perenggan & Justify.
				4. Nama Pelajar. **i.** Kertas : A4 putih kecuali muka depan.
				5. Semester, Sesi.  **j.** Staple & Selotepkan.

iii. Format Rujukan:  Penulis (tahun diterbitkan), *Nama Buku.* Tempat diterbitkan: Penerbit.  iv. Serah Assignment :a. Sebelum Minggu ke 6.b. Hantar hard copy dan softcopy. c. By emel: ahjpo@yahoo.comd. Selewat-lewatnya Khamis, 4.00pm.e. Lewat hantar, tiada lagi markah yang akan diberikan.b. Ujian & Kuiz. i. Ujian : Pada Minggu ke 6 (**15 %**). ii. Kuiz : Pada Minggu ke 12 & 13 (**10 %**). |

|  |  |  |
| --- | --- | --- |
| 1 | Nama Kursus | **HUBUNGAN ETNIK***ETHNIC RELATIONS* |
| 2 | Kod Kursus | UHAD 1152  |
| 3 | Nama Staf Akademik  | NAME : AZLINA OTHMANQUALIFICATION : B.SOCIAL SCIENCE UNIVERSITI : USMTAHUN BERGRAUAT : 2008 |
|  | Rasional kursus dimasukkan dalam program ini  | Memberi pendedahan kepada pelajar mengenai kepentingan kajian hubungan etnik dalam kehidupan bermasyarakat yang pelbagai kaum khususnya di Malaysia bagi mewujudkan suasana aman, bersatu padu dan juga saling menghormati antara kaum yang berbeza latar belakangnya sama ada dari agama, bahasa, adat, budaya serta persekitarannya. |
| 5 | Semester dan tahun ditawarkan  | Semester 3, tahun 2  |
| 6 | Jumlah masa belajar pelajar (SLT)K: KuliahT: TutorialP: PraktikalL: Lain-lain  | **Aktiviti Pengajaran dan Pembelajaran** | **Jam Belajar Pelajar (jam)** |
| Pembelajaran bersemuka | Tumpuan Pensyarah | Kuliah | 28 |
| Aktiviti Tumpuan Pelajar (SCA) | Tutorial |
| Amali |
| Lain-lain |
|  |
| Pembelajaran Kendiri | Pembelajaran tak bersemuka  | 49 |
| Perbincangan kumpulan |
| Ulangkaji |
| Persediaan penilaian |
| Penilaian Formal | Ujian  | 3 |
| Pembentangan projek  |
| Peperiksaan akhir  |
| **Jumlah SLT** | **80** |
|  |
| 7 | Nilai Kredit | 2jam kredit (2jam kredit kuliah )2jam konteks kuliah x 14 minggu = 28 jamJumlah jam kontak = 28 jam |
| 8 | Pra Syarat  | Tiada |
| 9 | Hasil Pembelajaran (CO) | Di akhir kursus pelajar berkebolehan untuk:CO1: Menghuraikan konsep-konsep yang berkaitan dengan hubungan etnik di Malaysia dan sejarah perkembangan dan pembentukan masyarakat Malaysia. CO2: Mampu bekerjasama dan menghargai kepelbagaian budaya masyarakat Malaysia.CO3: Mampu menghormati perbezaan nilai dalam budaya pelbagai etnik.  |
| 10 | Pemindahan Kemahiran | **Kemahiran Yang Dibangunkan** | **Kaedah Penilaian** | **Bentuk Penilaian** |
| Pengukuran penguasaan bagi setiap bab. | Ujian (1&2)& Kuiz | Individu |
| Komunikasi | Soal – jawab, perbincangan tugasan | Individu & berkumpulan |
|  |
| 11 | Pengajaran-Pembelajaran (PnP) dan Strategi Penilaian | **Pembelajaran & Pengajaran** | **Strategi Penilaian** |
| Kuliah | Soal-jawab, latihan, tugasan, kuiz, ujian |
| Projek dan Perbincangan | Pembentangan tajuk tugasan |
|  |
| 12 | Sinopsis | Kursus ini membincangkan tentang masyarakat, budaya dan konsep-konsep asas sosiologi dalam hubungan etnik. Kursus ini juga menjelaskan tentang perkembangan dan pembentukan masyarakat di Malaysia. Tumpuan perbincangan adalah tentang isu-isu dan cabaran yang dihadapi oleh masyarakat pelbagai etnik di Malaysia dalam usaha melahirkan masyarakat yang bersatu padu. |
| 13 | Mod Penyampaian | Kuliah, perbincangan, pembentangan, dan lain-lain aktiviti tertumpukan pelajar secara bersemuka di dalam bilik kuliah atau aktiviti luar. |
| 14 | Jenis Dan kaedah Penilaian | Penilaian dibuat melalui Markah Kerja Kursus dan Peperiksaan Akhir.Markah Kerja Kursus dinilai sepanjang semester melalui ujian, kuiz dan tugasan, manakala peperiksaan akhir dibuat secara formal di akhir semester dan dikendalikan oleh Unit atau Jawatankuasa Peperiksaan yang dilantik. Pecahan markah bagi kerja kursus dan peperiksaan akhir adalah seperti berikut:-

|  |  |
| --- | --- |
| **MARKAH KERJA KURSUS:-**UjianKuizTugasan Kumpulan | **100%**20%5%15% |
| **PEPERIKSAAN AKHIR** | **60%** |
| **JUMLAH** | **100%** |

Kriteria prestasi penilaian summatif: Rujuk buku ‘Peraturan Akademik Program Kerjasama Kursus Diploma & Ijazah Sarjana Muda, UTM’. |
| 15 | Pemetaan Kursus Kepada Hasil Pembelajaran Kursus (CO) | **Tajuk Kursus** | **CO1** | **CO2** | **CO3** |
| Konsep-Konsep Asas Hubungan Etnik | ✓ |  |  |
| Ras, Etnik, Etnosentrik, Asimilasi, Akomodasi, Akulturasi dan Integrasi. | ✓ | ✓ | ✓ |
| Pluraliti Masyrakat Alam Melayu Dalam Sejarah: Sebelum Zaman Penjajahan. | ✓ | ✓ | ✓ |
| Masyarakat Plural Zaman Penjajahan. | ✓ | ✓ | ✓ |
| Masyarakat Plural dan Pluraliti Baru Dalam Era Kemerdekaan (1957- kini) | ✓ | ✓ | ✓ |
| Perlembagaan Malaysia Dalam Konteks Hubungan Etnik | ✓ | ✓ | ✓ |
| Pembangunan Politik Dalam Konteks Hubungan Etnik | ✓ | ✓ | ✓ |
| Pembangunan Ekonomi Dalam Konteks Hubungan Etnik | ✓ | ✓ | ✓ |
| Pembangunan Sosial Dalam Konteks Hubungan Etnik | ✓ | ✓ | ✓ |
| Islam Hadhari | ✓ | ✓ | ✓ |
| Globalisasi: Isu Dan Cabaran |  | ✓ | ✓ |
|  |
| 16 | Pemetaan Kursus Kepada Hasil Pembelajaran Program (PO) | **Tajuk Kursus** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO 10** |
| Konsep-Konsep Asas Hubungan Etnik | ✓ |  |  | ✓ | ✓ | ✓ |   |  |  |  |
| Ras, Etnik, Etnosentrik, Asimilasi, Akomodasi, Akulturasi dan Integrasi | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |  |  |  |  |
| Pluraliti Masyrakat Alam Melayu Dalam Sejarah: Sebelum Zaman Penjajahan |  | ✓ | ✓ | ✓ | ✓ | ✓ |  |  |  |  |
| Masyarakat Plural Zaman Penjajahan |  | ✓ |  | ✓ | ✓ | ✓ |  |  |  |  |
| Masyarakat Plural dan Pluraliti Baru Dalam Era Kemerdekaan (1957- kini) |  | ✓ | ✓ | ✓ | ✓ | ✓ |  |  |  |  |
| Perlembagaan Malaysia Dalam Konteks Hubungan Etnik | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |  |  |  |  |
| Pembangunan Politik Dalam Konteks Hubungan Etnik | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |  |  |  |  |
| Pembangunan Ekonomi Dalam Konteks Hubungan Etnik | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |  |  |  |  |
| Pembangunan Sosial Dalam Konteks Hubungan Etnik | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |  |  |  |  |
| Islam Hadhari | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |  |  |  |  |
| Globalisasi: Isu Dan Cabaran | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |  |  |  |  |
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|  |
| 17 | Kandungan Kursus dan SLTK: KuliahT: TutorialL: Lain-lainA: PenilaianSCA: ‘Student Centred Activities’PK: Pembelajaran kendiriM: Minggu pembelajaran | **M** | **TAJUK** | **K** | **T/L****SCA** | **A** | **PK** | **SLT** |
| 1 | Konsep-Konsep Asas Hubungan Etnik | 2 |  |  | 4 | 6 |
| 2 | Ras, Etnik, Etnosentrik, Asimilasi, Akomodasi, Akulturasi dan Integrasi | 2 |  |  | 4 | 6 |
| 3 | Pluraliti Masyrakat Alam Melayu Dalam Sejarah: Sebelum Zaman Penjajahan | 2 |  | 1 | 4 | 7 |
| 4 | Masyarakat Plural Zaman Penjajahan | 2 |  |  | 4 | 6 |
| 5 | Masyarakat Plural dan Pluraliti Baru Dalam Era Kemerdekaan (1957- kini) | 2 |  |  | 4 | 6 |
| 6 | Perlembagaan Malaysia Dalam Konteks Hubungan Etnik | 4 |  |  | 4 | 8 |
| 7 | Pembangunan Politik Dalam Konteks Hubungan Etnik | 2 |  | 1 | 5 | 8 |
| 8 | Pembangunan Ekonomi Dalam Konteks Hubungan Etnik | 4 |  |  | 5 | 9 |
| 9 | Pembangunan Sosial Dalam Konteks Hubungan Etnik | 4 |  |  | 5 | 9 |
| 10 | Islam Hadhari | 2 |  |  | 5 | 7 |
| 11 | Globalisasi: Isu Dan Cabaran | 2 |  | 1 | 5 | 8 |
|  |
|  | Jumlah | 28 |  | 3 | 49 | 80 |
|  |
| 18 | Rujukan | **RUJUKAN** 1. Kassin Thukiman, et.al. 2008.*Modul Hubungan Etnik di Malaysia.* Skudai: Penerbit UTM
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3. Cheah Boon Keng, Abu Talib Ahmad (eds.), 1990. *Kolonialisme Di Malaysia Dan Negara-Negara Lain*. Petaling Jaya: Penerbit Fajar Bakti.
4. Gullick, J.M, 1972. *Sistem Politik Bumiputera Tanah Melayu*. Kuala Lumpur: DBP
5. Rex, John, (A.Nazri Abdullah, terj.) 1985. *Hubungan Ras Dalam Teori Sosiologi*. Kuala Lumpur: DBP
6. S. Husin Ali (ed.), 1984. *Kaum, Kelas Dan Pembangunan*. Kuala Lumpur: Persatuan Sains Sosial Malaysia.
7. Shamsul Amri Baharudin, 1986. *From British to Bumiputera Rule*. Singapore: ISEAS.
8. Ting Chew Peh, 1980. *Konsep Asas Sosiologi*. Kuala Lumpur: DBP
 |
| 19 | Maklumat Tambahan | Tiada |