|  |  |
| --- | --- |
| Sesi Akademik  *Academic Session* | 2019/2020 |
| Semester/Penggal  *Semester/Term* | 2 |
| Kod Kursus  *Course Code* | WOX 7001 |
| Tajuk Kursus  *Course Title* | Research Methodology |
| Bahasa Pengantar  *Medium of Instruction* | English |
| Rujukan Utama  *Main Reference* | 1. Creswell, John. 2018. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.* Sage Publications, Inc; 5th edition 2. Anwar, H., & Raza Khan, E. (2018) Research Methods of Computer Science. University Science Press. 3. Holcomb, Zealure, C/ 2007. *Interpreting Basic Statistics: A Guide and Workbook Based on Excerpts from Journal Articles*. Pyrczak Publishing; 5 edition 4. Paul D. Leedy, J E Ormrod 2005. Practical Research – Planning and Design. Pearson Prentice Hall 5. M Berndtsson, J Hansson, B Olsson, B Lundell. 2008. Thesis Projects – A Guide for Students in Computer Science and Information Systems. Springer. |
| Strategi Pembelajaran  *Learning Strategies* | Lecture, Group Discussion |
| Masa Pembelajaran Pelajar  *Student Learning Time* | Bersemuka / *Face to face* : 39.5  Tidak Bersemuka / *Non Face to face*: 3.5  Masa Persediaan Pelajar / *Student Preparation Time*: 71 |
| Kemahiran Boleh Pindah  Transferable Skills | Skills in formulating problem statements and research questions; skills in creating research instruments; skills in research proposal writing; skills in appraising empirical research; skills in writing research reports |
| Pensyarah / *Lecturer*  Bilik / *Room*  Telefon/e-mel  *Telephone/e-mail* | Dr Norizan Mohd Yasin  B-3-25  norizan@um.edu.my |
| Sesi Kuliah / *Lecture Session:*  Hari/Masa / *Day/Time*  Tempat / *Venue* | Wednesday  6- 9pm  DK 1 |
| Sesi Tutorial/Amali:  *Tutorial/Practical Session:*  Hari/Masa / *Day/Time*  Tempat / *Venue* | Please refer to the timetable |
| Perincian Pemberatan Penilaian  *Detail of Assessment Weightage* | Penilaian Berterusan / *Continuous Assessment* : 100%  Individual Assignmnets 20%  Group Assignments 25%  Research Proposal and Presentation 40%  Test 15%: |

**Jadual Pengajaran / *Teaching Schedule***

|  |  |  |  |
| --- | --- | --- | --- |
| Minggu  *Week* | | Topik & Aktiviti  *Topic & Activities* | Rujukan  *References* |
| 1  19/2/2020 | Proforma Kursus dan Pengenalan  Course Pro Forma and Introduction | Creswell, John. 2018. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.* Sage Publications, Inc; 5th edition, Powerpoint Slides, internet sources |
| 2  26/2/2020 | Research problem, research objectives, reserch questions, scope and contributions | Creswell, John. 2018. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.* Sage Publications, Inc; 5th edition, Powerpoint Slides, internet sources |
| 3  4/3/2020 | Research types (quantitative, qualitative , mixed method)  Individual Assignment 1 (10%) | Creswell, John. 2018. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.* Sage Publications, Inc; 5th edition, Powerpoint Slides, internet sources |
| 4  11/3/2020 | Research methodology in computer science   * Experimental, simulation, theoretical, case study | Creswell, John. 2018. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.* Sage Publications, Inc; 5th edition, Powerpoint Slides, internet sources |
| 5 | BREAK MCO /PKP COVID 19  18 Macrh – 28 April 2020 |  |
| 6  1  29/4/2020 | Literature review   * Guidelines to conduct literature review * Critical analysis * Formulate research questions * Formulate research hypothesis   Individual Assignment 2 (10 %)  Group assignment 1 – due week 9  Group assignment 2 – due week 13  Online lecture1 | Creswell, John. 2018. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.* Sage Publications, Inc; 5th edition, Powerpoint Slides, internet sources |
| 7  2  6/5/2020 | Quantitative research (I)   * Introduction * Charateristics * Research designs | Creswell, John. 2018. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.* Sage Publications, Inc; 5th edition, Powerpoint Slides, internet sources |
| 8  3  13/5/2020 | Quantitativ research (II)  - analysis and interpretation of data  - validity and reliability | Creswell, John. 2018. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.* Sage Publications, Inc; 5th edition, Powerpoint Slides, internet sources |
| 9  4  20/5/2020 | Qualitative research (I)   * Introduction * Charateristics * Research designs   Group assignment 1 – due week 9  Group 1 Class activity 1 due– 27/5/2020 | Creswell, John. 2018. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.* Sage Publications, Inc; 5th edition, Powerpoint Slides, internet sources |
| 10  5  27/5/2020 | Qualitative research (II)  analysis and interpretation of data  - validity and reliability  Online lecture 2 | Creswell, John. 2018. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.* Sage Publications, Inc; 5th edition, Powerpoint Slides, internet sources |
| 11  6  3/6/2020 | Research Proposal: Writing up  Group 1 Class activity 2 due – 3/6/2020 | Creswell, John. 2018. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.* Sage Publications, Inc; 5th edition, Powerpoint Slides, internet sources |
| 12  7  10/6/2020 | Research proposal  Online lecture3 | Creswell, John. 2018. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.* Sage Publications, Inc; 5th edition, Powerpoint Slides, internet sources |
| 13  8  17/6/2020 | Ethical issues  Plagiarism, similarity and UM IPS guidelines  Group 1 Group assignment 2 – due 17/6/2020  Proposal due | Creswell, John. 2018. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.* Sage Publications, Inc; 5th edition, Powerpoint Slides, internet sources |
| 14  20/6/2020  9 | Group 1 Test 15%  9am – 5pm | Creswell, John. 2018. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.* Sage Publications, Inc; 5th edition, Powerpoint Slides, internet sources |