

**APPROVED**

## IT8313 : Wireless Communications

| Course Details     |                                                                                                                                                                                                                                                                               |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Course Code:       | IT8313                                                                                                                                                                                                                                                                        |
| Course Title:      | Wireless Communications <b>APPROVED</b>                                                                                                                                                                                                                                       |
| Short Title:       |                                                                                                                                                                                                                                                                               |
| Course Level::     | Level 8                                                                                                                                                                                                                                                                       |
| Valid From::       | 2018/2019 Sem 1                                                                                                                                                                                                                                                               |
| Credits::          | 15                                                                                                                                                                                                                                                                            |
| Owner:             | ICT                                                                                                                                                                                                                                                                           |
| Assessment Method: | Achievement                                                                                                                                                                                                                                                                   |
| Course Aim         | To provide students with an advanced understanding of mobile and wireless communication concepts. To allow students to design and implement a modern mobile/wireless infrastructure in a specialist level, similar to the ones implemented by the mobile carriers in Bahrain. |

| CLO                                                                               |                                                                                                                                             |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <i>On Completion of this course, the learner will be able to</i>                  |                                                                                                                                             |
| #                                                                                 | Learning Outcome Description                                                                                                                |
| 1                                                                                 | Demonstrate critical knowledge and understanding of the communications theory fundamentals that allow mobile/wireless networks to function. |
| 2                                                                                 | Plan, design and implement wireless communication technologies for given scenarios.                                                         |
| 3                                                                                 | Critically analyze the performance of various wireless communication technologies to determine appropriate solutions                        |
| Requisites                                                                        |                                                                                                                                             |
| <ul style="list-style-type: none"><li>• Pre Requisite: IT7003 (ITB6003)</li></ul> |                                                                                                                                             |

|                                                              |
|--------------------------------------------------------------|
| <b>Examinations</b>                                          |
| <b>Assessment Type</b><br>Examination (Unseen)               |
| <b>Other Controlled Assessments</b>                          |
| <b>Assessment Type</b><br>Oral questioning after observation |
| <b>Uncontrolled Assessments</b>                              |
| <b>Assessment Type</b><br>Project (Group)                    |

| <b>Affiliated Entities</b> |                     |                       |                    |
|----------------------------|---------------------|-----------------------|--------------------|
| <b>Entity Code</b>         | <b>Entity Title</b> | <b>Entity Version</b> | <b>Entity Type</b> |
| None                       |                     |                       |                    |