## TEMPLATE FOR COURSE SPECIFICATION

## HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

## COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

| 1. Teaching Institution | University of Anbar |
| :--- | :--- |
| 2. University Department/Centre | College of Computer Science and <br> Information Technology - Information <br> System Department |
| 3. Course title/code | Information Technology Principles |
| 4. Programme(s) to which it contributes | Bachelors of Information System |
| 5. Modes of Attendance offered | Electronic attendance |
| 6. Semester/Year | First semester 2021-2022 |
| 7. Number of hours tuition (total) | 48 |
| 8. Date of production/revision of this <br> specification | 25-10-2021 |
| 9. Aims of the Course |  |
| - | Provide a basic knowledge of computer hardware and software |
| - | Introduce the business areas to which computers may be applied. |
| - | Provide an introduction to business organization and information systems. |
| -Develop the skills in network \& communication , which play an important part in business computing <br> and information processing. |  |

## 10• Learning Outcomes, Teaching ,Learning and Assessment Method

## A- Knowledge and Understanding

A1. The student should understand the architecture of any IT systems.
A2. The student should understand the parts of hardware.
A3. The student should understand the system software.
A4. The student should understand the architecture of networks , protocols and communications devices.
A5.
B. Subject-specific skills

B1.
B2.
B3.
Teaching and Learning Methods

- The student should use utilities in the lab to apply scientific experiment
- The ability to execute the applications software .


## Assessment methods

| Notes | Date | \% | Assessment |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $6^{\text {th }}$ week | 10\% | First Month exam | 1 |
|  | $10^{\text {th }}$ week | 10\% | Second Month exam | 2 |
|  | $16^{\text {th }}$ week | 10\% | Third Month exam | 3 |
|  | All weeks | 5\% | Attendance and HW | 4 |
|  | At end of each experiment | 15\% | Reports and Lab exam | 5 |
|  | End of semester | 50\% | Final exam | 6 |
|  |  | $\begin{gathered} 100 \\ \% \end{gathered}$ | Sum |  |

## C. Thinking Skills

C1.
C2.
C3.
C4.

## Teaching and Learning Methods

## Assessment methods

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D. General and Transferable Skills (other skills relevant to employability and personal development)
D1.
D2.
D3.
D4.
```


## 11. Course Structure

| Week | Hours | ILOs | Unit/Module or Topic Title | Teaching Method | Assessment Method |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2 Theory + <br> 2 Practical |  | Introduction of Computers and Programming |  |  |
| 2 | 2 Theory + <br> 2 Practical |  | Brief history of computer |  |  |
| 3 | 2 Theory + <br> 2 Practical |  | Generation of Computers \& Computer hierarchy |  |  |
| 4 | $\begin{aligned} & 2 \text { Theory + } \\ & 2 \text { Practical } \end{aligned}$ |  | Basic Computer Components |  |  |
| 5 | 2 Theory + <br> 2 Practical |  | Computer function (fetch cycle, interrupt cycle, I/O function |  |  |
| 6 | $\begin{aligned} & 2 \text { Theory + } \\ & 2 \text { Practical } \end{aligned}$ |  | Semiconductor main memory (RAM, ROM, CACHE) |  |  |
| 7 | 2 Theory + <br> 2 Practical |  | Computer Software(application software) |  |  |
| 8 | 2 Theory + <br> 2 Practical |  | External \& Internal memory |  |  |
| 9 |  |  | First Exam |  |  |
| 10 | 2 Theory + <br> 2 Practical |  | Telecommunications system \& Network |  |  |
| 11 | $\begin{aligned} & 2 \text { Theory + } \\ & 2 \text { Practical } \end{aligned}$ |  | Topology of a network |  |  |
| 12 | 2 Theory + <br> 2 Practical |  | Layering model |  |  |
| 13 | 2 Theory + <br> 2 Practical |  | Protocols |  |  |
| 14 | $\begin{aligned} & 2 \text { Theory + } \\ & 2 \text { Practical } \end{aligned}$ |  | addressing communications |  |  |


| 15 |  | Final Exam |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 16 |  |  |  |  |

12. Infrastructure

Required reading:

- CORE TEXTS

COURSE MATERIALS OTHER

| Special requirements (include for |
| :--- | :--- |
| example workshops, periodicals, | | 1.Computing Essentials Making IT work for you |
| :--- |
| 2017 by Timothy J. O'Leary. |
| IT software, websites) |$\quad$| 2.Computer Organization and Architecture |
| :--- |
| Designing for Performance (8th Edition). |


| 13. Admissions | Fundamental of English . |
| :--- | :--- |
| Pre-requisites | 25 |
| Minimum number of students |  |
| Maximum number of students | 40 |

