

المركز الوطني للتقويم والاعتماد الأكاديمي

**National Center for Academic Accreditation and Evaluation**

### ATTACHMENT 5.

**T6. COURSE SPECIFICATIONS**

**(CS)**

**Course Specifications**

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| Institution: **King Saud University** | Date: 1/4/2018  |
| College/Department : **College of Science/Chemistry Department** |

**A. Course Identification and General Information**

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| 1. Course title and code:**Chemistry and Life – Chem 560** |
| 2. Credit hours: **2 + 0 + 0** |
| 3. Program(s) in which the course is offered. (If general elective available in many programs indicate this rather than list programs)**M. Sc. Education Program** |
| 4. Name of faculty member responsible for the course**Dr.Norah AlHaqbani** |
| 5. Level/year at which this course is offered: **M. Sc. Education 1st Semester 1438/39, 2017** |
| 6. Pre-requisites for this course (if any): |
| 7. Co-requisites for this course (if any): |
| 8. Location if not on main campus: 5/first Floor 14 |
| 9. Mode of Instruction (mark all that apply): a. traditional classroom 40% What percentage?  b. blended (traditional and online) \* 5% What percentage? c. e-learning What percentage? d. correspondence What percentage? f. other 20% What percentage?Comments: |

**B Objectives**

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| 1. What is the main purpose for this course? |

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| 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)**Through making the student gain interest in the subject and because of its continual advancements and progress, the students will be encouraged to know more via various methods of self-education. Internet and making use of the reference book website links the student directly and fruitfully to variable sources of information.**  |

**C. Course Description** (Note: General description in the form used in Bulletin or handbook)

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| Course Description:**Peaceful applications of nuclear energy particularly in medical fields. Radioactive pollution, damage and methods of protection. NUCLEAR PHYSICES AND RENABLE ENERGEY TOPIC WERE ADDED TO SALLYBUS. All topics covered by presentations and exams and write problems and solved**  |

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| 1. Topics to be Covered  |
| List of Topics | No. ofWeeks | Contact hours |
| NUCLEAR CHEMISTRY  | 3 |  |
| NUCLEAR PHYSISCIS  | 3 |  |
| RENABLE ENEGY  | 2 |  |
| PETROCHEMICALES  | 2 |  |
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| 2. Course components (total contact hours and credits per semester):  |
|  | Lecture | Tutorial | Laboratory/Studio | Practical | Other: | Total |
| ContactHours | Planed | 30 |  |  |  |  |  |
| Actual | 30 |  |  |  |  |  |
| Credit | Planed | 30 |  |  |  |  |  |
| Actual | 30 |  |  |  |  |  |

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| 3. Additional private study/learning hours expected for students per week.  |

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| 4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy |
| **On the table below are the five NQF Learning Domains, numbered in the left column.** **First**, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)  |
| **Code****#** | **NQF Learning Domains** **And Course Learning Outcomes** | **Course Teaching****Strategies** | **Course Assessment****Methods** |
| **1.0** | **Knowledge** |
| 1.1 | **To gain a wide scope of information about the application of chemical knowledge to the progress of mankind-enjoy self-education via online tutoring. Achieve better know-how to be able to help himself and its society.** | **Lecturing, personalized tutoring via content and online tutoring. Group discussions** | **mid-term exams, presentation, research articles and the final exam** |
| 1.2 | **Build upon knowledge of the chemistry of elements in bio-systems** | **Presentation- exams, write a problems,** | **Luck of write problems.** |
| **2.0** | **Cognitive Skills** |
| 2.1 | **Encouraging the students to use reference beside the assigned textbook and e-learning** | **Supplying the students by I.T. sites and reference book names** | **Follow up the students research articles and homework assignments** |
| 2.2 | **Provide a deeper understanding of the chemistry of air and water and radiometals.**  | **Rubrics for evaluation and feedback, exams, reports, seminar** | **The English language barrier represented a challenge for all students. In addition the students lack some of the basic knowledge required for this course** |
| **3.0** | **Interpersonal Skills & Responsibility** |
| 3.1 | **Judging the students in team work capacities and group discussions** | **Up-to-date preparation of lectures and help those students who face difficulties** | **Follow-up the students work with I.T. , websites and references** |
| 3.2 |  |  |  |
| **4.0** | **Communication, Information Technology, Numerical** |
| 4.1 |  |  |  |
| 4.2 |  |  |  |
| **5.0** | **Psychomotor** |
| 5.1 |  |  |  |
| 5.2 |  |  |  |

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| 5. Schedule of Assessment Tasks for Students During the Semester |
|  | Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.) | Week Due | Proportion of Total Assessment |
| 1 | *Lectures* | 2-4 |  |
| 2 | *Independent reading and discussion* | 5-6 |  |
| 3 | *Students prepare a report on problems and solution* | 7-10 |  |
| 4 | *persentation* | Every week |  |
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**D. Student Academic Counseling and Support**

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| 1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)**10 Office hours per week** |

**E Learning Resources**

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| 1. List Required Textbooks**Chemistry, 11th Ed. , 2009, By T.L. Brown, H.E. Le May, B.E. Bursten and C.J. Murphy, Pearson Education, Inc** |
| 2. List Essential References Materials (Journals, Reports, etc.)**Chemistry-Matter and its change, By J.E. Brady and F. Senes, 4th Ed., 2004. Hohn Wily** |
| 3. List Electronic Materials, Web Sites, Facebook, Twitter, etc.**Chemistry 11th Ed., 2010 By R. Chang, Mc Graw Hill**[www.masteringchemistry.com](http://www.masteringchemistry.com) and [www.wiley.com/college/bradly](http://www.wiley.com/college/bradly) |
| 4. Other learning material such as computer-based programs/CD, professional standards or regulations and software. |

**F. Facilities Required**

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| Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access, etc.) |
| 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)**Lecture theatre to accommodate 2 students fitted with smart board and all e-learning facilities** |
| 2. Technology resources (AV, data show, Smart Board, software, etc.)**The lecture theatre is fitted with 20 PC`s** |
| 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)  |

**G Course Evaluation and Improvement Processes**

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| 1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching**Course evaluation by students and by audiences when students address their research articles** |
| 2. Other Strategies for Evaluation of Teaching by the Instructor or by the Department**Peer consultation on teaching.****Departmental council discussions.****Discussions with the group faculty teaching** |
| 3. Processes for Improvement of Teaching**Conducting workshops presented by experts on the teaching methodologies.****Periodical departmental revisions on its methods of teaching.****Monitoring of teaching activities by senior faculty members** |
| 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)**Assigning group of departmental members teaching the same courses to grade some questions for various students.** |
| 5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.**The course materials and learning outcome are periodically reviewed.****The chairman of the department and faculty members take the responsibility** |

Name of Course Instructor: \_ **Dr.Norah AlHaqbani** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature: \_NORAH\_\_\_\_\_\_\_\_\_ Date Specification Completed: \_\_\_\_\_\_\_\_\_\_\_\_

Program Coordinator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature: \_\_\_\_\_\_\_NORAH\_\_\_\_\_\_\_\_\_ Date Received: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_