**King Saud University**

**Applied Medical Sciences College**

**Quality and Development Unit**

Course Syllabus

Vision, mission and goals of Biomedical Instrumentation program

Vision:

Pioneering and Excellence in teaching, training, and preparing competent professional in the field of Biomedical Equipment Technology.

Mission:

Qualifying competent graduates in the field of Biomedical Equipment Technology capable of producing distinct research and high quality operation and maintenance of biomedical equipment to support Healthcare section in both the governmental and private sectors in a way to serve their community.

Goals:

Preparing highly competent graduates in the field of Biomedical Equipment:

* Provide working environment that promote education and creativity.
* Ensure the quality of education.
* Prepare qualified staff in the field of biomedical technology.
* Promote distinctive research and dissemination of technology in the field of medical equipment.
* Attract a number of faculty members with expertise in the field of technical medical equipment.
* Offering master's program in technical medical devices.
* Activating internal and external partnerships in the areas of educational, applied research, and consultation services.
* Contribute effectively to community service and development.

Course Syllabus

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| Course title and code: BMT227 |
| Department : Biomedical Technology |
| Program in which the course is offered:  •Bachelor of Applied Medical Sciences in the field of: Health Rehabilitation Sciences (HRS)  •Bachelor of Applied Medical Sciences in the field of: Dental health  • Bachelor of Nursing  • Master of Applied Medical Sciences in the field of: Clinical Laboratory Sciences (CLS) |
| Credit hours: 30 hours |
| Total contact hours per semester: 45 hours |
| Level at which this course is offered: level 3 |
| Course prerequisites: none |
| Time: - |
| Location: main campus |
| College member responsible for the course |
| Contact information: Raneem Alkahtani |
| Office Number: |
| Phone : - |
|  |
| Email: [raalkahtani@hotmail.com](mailto:raalkahtani@hotmail.com) |
| Website: Dropbox  <https://www.dropbox.com/sh/but8b0iixwllagl/AAApVL_ceFDCVhgRLS55bcE5a?dl=0> |
| Office hours: Tuesday 11-12 |
| Course Description |
| Course Objectives  -Acquire basic computer knowledge such as, computer hardware, computer security and databases.  - Introduce the medical informatics concept.  - Introduce the SPSS software, and learn about its main features in data analysis.  - Introduce the EndNote software |
| Teaching strategies   * Interactive lectures using class discussion and brain storming * Reading from scientific journals, textbooks and other sources. * Interactive lectures using class discussion and brain storming * Group Project * Guiding and assist the students during searching a selected topic, preparing seminars and presentation. |
| Learning Resources |
| Required Text (s) |
| * Essential References * LaBerta, C. (2012). Computers Are Your Future (12th ed.). USA: Prentice Hall. * SPSS For Dummies by Arthur Griffith * ABC of Health Informatics by Frank Sullivan |
| * Recommended Journals * The Computer Journal. Available at http://comjnl.oxfordjournals.org/ * Journal of Computer Science and Technology. Available at http://www.springer.com/computer/journal/11390 4-. List Electronic Materials (eg. Web Sites, Social Media, |
| * Electronic Materials and Web Sites |

* EndNote website. Available at <http://endnote.com/>
* SPSS 22 Program
* EndNote Program X5

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| Topics to be covered |  |

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| List of topics | | | Week due | | Contact hours |
| Introduction to the course | | | 1 | | 3 |
| Computer features | | | 1 | | 3 |
| Computer Security | | | 1 | | 3 |
| Medical Informatics | | | 1 | | 3 |
| Searching Online Medical Databases | | | 1 | | 3 |
| SPSS | | | 4 | | 12 |
| EndNote | | | 2 | | 3 |
| Schedule of Assessment Tasks for Students During the Semester | | | | | |
|  | | | | | |
| Assessment task | | Week due | | Proportion of Final Assessment | |
| Midterm I | | 7th | | 20% | |
| Midterm II | | 11th | | 20% | |
| Practical Assessment | | During classes | | 5% | |
| Project and Presentation | | 14th , 15th | | 15% | |
| End Semester Exam | | 16th – 18th | | 40% | |
| Required Assignments: |  | | | | |
| * Will discussed at the Lab. | | | | | |
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| Course rules : |  | | | | |
| * Class Leader: |  | | | | |
| * Name: * Duties of the Class leader: | Communicate with the instructor on behalf of the class | | | | |
| More comments for instructor : |  | | | | |
| |  | | --- | | Cheating Policy: | | Students are encouraged to work together and learn from each other. However, cheating in any form on exams, or copying of homework will not be tolerated. Any evidence of cheating will result in a failing grade for the course. | | | | |
| General Policy: | Homework is due at the start of class on the due date. Late homework will only be accepted in extenuating circumstances. | | | | |
| Classroom Etiquettes and Policies: | Part of your college education is to become a disciplined professional.  Therefore, I expect from you the highest level of class room conducts during this course.  Follow Common Etiquettes  You must follow instructions given by the instructors  Must show respect to the instructor and to each other.  Must not talk without permission of the instructor.  Must not enter and leave class room without the permission of the instructor.  Mobile phone use is strictly prohibited during class- must be turned off. | | | | |
| Prospects | We should strive to the following expectations. This is mutual, so we are all accountable for these, including me. Please feel free to provide feedback to me (via email, or in person) if your expectations are  not being met. I encourage and greatly value your constructive feedback. We should all strive for:   * + Honesty and motivation in our work   + Interest in learning and development   + Preparedness for the class and meetings with class members   + Professionalism in our work products and personal demeanor   + Collaboration – working effectively with each other   + Communication – effective written, oral, and listening skills   + Enthusiasm and interest in the course material   + Fair and equitable treatment of each other | | | | |