**King Saud University, College of Science**

**Biochemistry Department,**

**BCH 604, Advanced Topics in Biochemical Research,**

**First Semester 1440 – 41H**

**Course number and name:** BCH 604, Advanced Topics in Biochemical Research

**Credi hours**: 2 (2+0)

**Course Description**

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| --- | --- | --- | --- | --- |
| **Topics to be covered** |  |  |  |  |
|  | List of Topics | No. ofWeeks | Contact Hours | Faculty Member |
|  | Recent aspects of peptides | 2 | 4 | Prof. Nikhat Siddiqi |
|  | Protein structure | 2 | 4 | Prof. Nikhat Siddiqi |
|  | Photosynthesis | 1 | 2 | Prof. Nikhat Siddiqi |
|  | Carbon fixation | 1 | 2 | Prof. Nikhat Siddiqi |
|  | Nucleic acid, replication, transcription, translation | 1 | 3 | Prof. Seema Zargar |
|  | Carbohydrate metabolism and its regulation | 1 | 2 | Prof. Nikhat Siddiqi |
|  | Lipid metabolism and its regulation | 1 | 2 | Prof. Seema Zargar |
|  | Nitrogen metabolism and its regulation | 1 | 2 | Prof. Nikhat Siddiqi |
|  | Oxidative phosphorylation | 1 | 2 | Prof. Seema Zargar |
|  | Integration of metabolism | 1 | 2 | Prof. Seema Zargar |
|  | Immunology and cancer | 1 | 2 | Prof. Omar Attas |

**Course learning**

1. Giving lecture
2. Discussion of the subject with the student
3. Oral assessment during the lecture
4. Search of scientific topics from the internet and scientific websites

**Knowledge and cognitive skills to be gained by the students**

1. Writing a review
2. Oral presentation by the student
3. Knowledge and cognitive skills
4. Writing a review
5. Oral and power point presentation

**Assessment**

Each faculty member will evaluate the students for 50 marks as follows

1. Written exam - 30 marks
2. Prsentation- 10 marks
3. Review- 10 marks