

SYLLABUS & PROGRAMME STRUCTURE

Skill Enhancement Course (SEC)

Human Physiology

(Honours)

(Choice Based Credit System)

(Effective from the Academic Session 2017-2018)

Third Semester

**MAHARAJA BIR BIKRAM UNIVERSITY
AGARTALA, TRIPURA: 799004**

**Semester – III
Human Physiology
SEC-1 (Assignment)**

FULL MARKS - 100

1. Enteric nervous system. Movement of alimentary tract.
2. Composition and mechanism of secretion of gastric and pancreatic juice.
3. Mechanism and control of gastric HCL secretion.
4. Digestion and absorption of fat.
5. Digestion of protein and absorption of iron.
6. Course and peculiarities of renal circulation.
7. Hypo and hypertonic urine formation with reference to counter current exchanger and multiplier system.
8. Non-excretory functions of kidney.
9. Physiology of Micturition.
10. Different phases of cardiac cycle with pressure-volume relationship.
11. Regulation of blood pressure.
12. Cardiac output-factors affecting.
13. Carbondioxide transport.
14. Oxygen transport with O₂ dissociation curve.
15. Neural regulation of respiration.
16. Regulation of glycolysis, TCA cycle, glycogenolysis.
17. Pentose phosphate pathway and its significance.
18. Cholesterol biosynthesis- & significance of cholesterol.
19. Beta-oxidation-energetics.
20. Co-enzymatic functions of different vitamins.
21. Biosynthesis of Vitamins-C, A and D.
22. Change of body composition, energy recommendation for space flight crew; space food system, types of space foods.

Assignment Question Structure:-

Assignment questions-	80 Marks
<u>Viva voice on written assignment-</u>	<u>20 Marks</u>
= 100 Marks	

Distribution of marks for assignment questions- Two questions from each unit bearing 10 marks for each question. Each question may be divided into two or three parts bearing maximum marks of 6 (Six). The assignment should be handwritten ad duly signed by the student and the Teacher.

SEC: General Information:

- Skill Enhancement Course (SEC) is an integral component of both Honours and General Programmes across the Streams under UGC CBCS UG Syllabi.
- SEC-1 of each Subject will consist of diverse topics/themes the Earlier Semesters and similarly SEC-2 of each Subject will consist of diverse topics/themes related to the Later Semesters.
- Topics/Themes must be incorporated in each of two Syllabi of SEC meant for Project & Assignments corresponding to CBCS Honours & General/Pass Programmes. PROJECTS & Assignments should be guided in such a way that all Projects/Assignments are prepared by students on different titles & aspects/dimensions of topics/themes/issues incorporated in University approved SEC Syllabi.
- SEC will represent a well mentored and self prepared Project work in written form by a student on respective Syllabi or 5 Assignments in terms of systematic answers in written form against a broad type of question/query carrying 20 marks each applicable across all Streams & Programmes. In case of Science Faculty, Assignments may be on Practical issues/topics/experiments.

SEC: Distribution across Streams & Programmes :

- One Paper of SEC finds its place in each of Third and Fourth Semesters under **Honours Curricula across the Arts/Science/ Commerce Streams** comprising altogether two Papers. In this case SEC must relate to the Honours Subjects only.
- One Paper of SEC finds its place in each of Third to Sixth Semesters under **Arts General Programmes** comprising altogether four papers. Two Papers of SEC will be associated with first Elective Subject and two Papers of SEC will be associated with second Elective Subject (as per sequence of filling up Elective Subjects in the admission forms or preference of the candidate submitted otherwise) in case of Arts (General)Programmes. Across the Third to Sixth Semesters a candidate will take SEC in the sequence : SEC(First Elective, First Paper) or SEC-11, SEC (Second Elective, First Paper) or SEC-21, SEC(First Elective, Second Paper) or SEC-12 & SEC (Second Elective, Second Paper) or SEC-22 respectively.
- For **Science (General) Programme** 4 Papers of SEC will be tagged with at least two out of three Electives and the highest number of SEC Papers under a given Elective must not be more than two.
- The Commerce Department will conduct the SEC in the relevant themes/ topics/issues related to the respective SEC Syllabi: 2 Papers for Honours & 4 Papers for **Commerce (General) Programmes** structurally distributed as like as Arts.
- Same sub topic/theme cannot be opted by a given candidate/student in preparation of Project/ Assignments at different Semesters under SEC.

SEC: Assessment of Project/Assignments :

- Assessment of SEC will be made on Evaluation of the Written Form of Project Work consisting of 80 marks and Oral Interaction /Feedback with the students on Project / Theme consisting of 20 marks.
- A Project must consist of the following 6 Chapters:
 1. Introduction,
 2. Basic Concepts,
 3. Main Analysis on the selected Theme/ Theory,
 4. Supplementary or Complimentary Analysis to the Main Theme/Theory,
 5. Self Study Report & Conclusion ,
 6. List of References of Books & Other Materials.
- The Project & Assignment will follow the University approved Syllabi materials on Subject & Paper specific topics/themes/issues.
- The Project must consist of all the basic features including Cover Page, Preface, Certification by Guide and Contents etc. apart from Chapterisation.
- The word limits of a Project will be in between 2500 to 3500 and the word limits of an Assignment will be in between 400 to 500.
- 80 Marks on written form of Projects will be assessed as per the following format:

Assessment Profile of a Project		
Sl. No.	Assessment Aspects	Assigned Marks
01	Nature of Project Theme & Chapterisation	20
02	Topical Coverage & Consistency of Analysis.	20
03	Way of Presentation & Technical Elements	20
04	Academic Quality & Excellence.	20
Marks on Project Presentation:		80
Marks on Oral Feedback :		20
Total Marks on Project :		100

- Both the evaluated/ assessed Projects and bunch of Assignments will remain under the custody of the related Departments and the University may ask for the despatch of the Projects or bunch of Assignments as & when necessitated.
- The total marks on Projects or Assignments will have to be transmitted by the College to the University on or before the stipulated date.
- This is a general guideline. The respective department(s) may incorporate or modify as department(s) deem fit.