

DEPARTMENT OF ZOOLOGY
ABHEDANANDA MAHAVIDYALAYA, SAINTHIA
ACADEMIC PLAN (SUGGESTIVE)

Semester:	I
Courses:	CORE COURSE I (CC1)- NON-CHORDATES -I
TotalMarks:	75
Total credit:	06 (Theory-4+ Practical-2)
Total no. of lectures:	90 (T-60+P-30)
Objective:	To have a tentative course of action well in advance through the said Academic Plan to be able to: <ul style="list-style-type: none">• execute the new CBCS with ease• finish syllabus and conduct evaluations on time to the satisfaction of both the student and the teacher
Evaluation method:	C1- 10% of the total marks (class test/assignment/seminar + attendance) C2- 10% of total marks (class test/assignment/seminar + attendance) C3- 60 marks [T-(10x2) + (5x2) + (2x5) + P-20]- semester-end examination
C1:	8 th week from the beginning of the semester Completion of 1/3 rd of the total course syllabus Around 3 rd week of September 2017
C2:	16 th week from the beginning of semester Completion of 2/3 rd of the syllabus Around 3 rd week of November 2017
C3:	21 st -23 rd week Full Syllabus Around Last Week of December, 2018

<p>Syllabus CC1</p>	<p>NON-CHORDATES-I(THEORY)</p> <p>Unit 1: Basics of Animal Classification</p> <p>Unit 2: Protista and Metazoa</p> <p>Unit 3: Porifera</p> <p>Unit 4: Cnidaria</p> <p>Unit 5: Cteophora</p> <p>Unit 6: Platyhelminthes</p> <p>Unit 7: Nematoda</p> <p>PRACTICAL:1. Preparation of stained whole mount of Euglena, Amoeba and Paramoecium</p> <p>2. Spot Identification of Amoeba, Euglena, Entamoeba, Opalina, Paramecium, Plasmodium vivax and Plasmodium falciparum (from the prepared slides)</p> <p>3. Spot Identification of Sycon, Neptune’s Cup, Obelia, Physalia, Millepora ,Aurelia, Tubipora, Corallium, Alcyonium, Gorgonia, Metridium, Pennatula, Fungia, Meandrina, Madrepora</p> <p>4. Spot Identification and significance of adult Fasciola hepatica, Taenia solium and Ascaris lumbricoides.</p> <p>5. Staining/mounting of any protozoa/helminth from gut of cockroach.</p>
<p>Texts prescribed by university for uniformity in translation and ease of access</p>	<ul style="list-style-type: none"> ● Barnes, R. D. & Ruppert, E. E., (1994). Invertebrate Zoology. 6thEd. Brooks Cole. ● Kotpal, R.L., 1988 – 1992. (All Series) Protozoa, Porifera, Coelentereta, Annelida, Arthropoda, Mollusca, Echinodermata, – Rastogi Publications, Meerut – 250 002 ● Sinha, K. S., Adhikari, S., & Ganguly, B. B. Biology of Animals. Vol. I. New Central Book Agency. Kolkata. ● Jordan, E. L. & Verma, P. S. (2006). Invertebrate Zoology. S. Chand & Company Ltd. New Delhi. ● Chatterjee and Chatterjee practical Zoology. ● Ghosh K.C and Manna,B.(2015):Practical Zoology,New Central Book Agency, Kolkata.

ACADEMIC PLAN	
Semester Begins	Fourth Week of July 2017
Number of lectures/week (1hr/lecture)	Theory=08+Practical=04
Tentative no. of classes/topic taken and syllabus covered before C1 1/3rd of CC-I should have been covered	<ul style="list-style-type: none"> • Unit-1 <u>Basics of Animal classification</u> Definitions: Classification, Systematics and Taxonomy; Taxonomic Hierarchy, Taxonomic types. Codes of Zoological Nomenclature; Principle of priority; Synonymy and Homonymy; Five kingdom concept of classification (Whittaker)....(6L) • Unit-3 <u>Porifera</u> General characteristics and Classification up to orders (after Hyman, 1951); Canal system and spicules in sponge.....(8L) • Unit-5 <u>Ctenophora</u> General characteristics....(2L) • • Practical- point1&3 Preparation of stained whole mount of Euglena, Amoeba and Paramoecium(4L) Spot Identification of Sycon, Neptune's Cup, Obelia, Physalia, Millepora, Aurelia, Tubipora, Corallium, Alcyonium, Gorgonia, Metridium, Pennatulula, Fungia, Meandrina, Madrepora.... (6L)
1 nd week of September 2017	<ul style="list-style-type: none"> • Deciding of method of evaluation for C1 • Topic/area- Unit1,3 &5 Notifying students about the topic and the method of assessment
2 nd week of September 2017	<ul style="list-style-type: none"> • Submitting question papers for class test/ topic for seminar/ assignment

3 rd week of September 2017	<ul style="list-style-type: none"> • Conducting C1 (8th week of sem.) • Class test/seminar/assignment • Calculating class attendance
4 th week of September 2017 (before college breaks for Puja vacation)	<ul style="list-style-type: none"> • Department meeting • Keeping record marks for C1
Syllabus covered before college breaks for puja vacation	<ul style="list-style-type: none"> • Unit-4 General characteristics and Classification up to orders. Metagenesis in Obelia Polymorphism in Cnidaria Corals and coral reef diversity, function & conservation (12L) • Unit-6 General characteristics and Classification up to classes Lifecycle and pathogenicity and control measures of Fasciola hepatica and Taenia solium....(6L) • Practical-point-2&4 Spot Identification of <i>Amoeba</i>, <i>Euglena</i>, <i>Entamoeba</i>, <i>Opalina</i>, <i>Paramecium</i>, <i>Plasmodium vivax</i> and <i>Plasmodium falciparum</i> (from the prepared slides)....(5L) Spot Identification and significance of adult Fasciola hepatica, Taenia solium and Ascaris lumbricoides. (4L)
Puja break	
Tentative no. of classes/topic taken and syllabus covered before C2 2/3rd of CC1 should have been covered	<p>Unit-2 Protozoa General characteristics and Classification up to phylum (according to Levine et. al., 1980) Locomotion in Euglena, Paramoecium and Amoeba; Conjugation in Paramoecium. Life cycle and pathogenicity of Plasmodium vivax and Entamoeba histolytica Metazoa Evolution of symmetry and segmentation of Metazoa (15L)</p> <ul style="list-style-type: none"> • Unit-7 General characteristics and Classification up to classes Life cycle, and pathogenicity and control measures of Ascaris lumbricoides and Wuchereria bancrofti....(7L)

	<ul style="list-style-type: none"> • Practical-point-5 Staining/mounting of any protozoa/helminth from gut of cockroach. ...(6L)
1 st week of November 2017	<ul style="list-style-type: none"> • Deciding of method of evaluation for C2 • Topic/area- UNIT 2,7 &4 Notifying students about the topic and the method of assessment
2 nd week of November 2017	<ul style="list-style-type: none"> • Submitting question papers for class test/ topic for seminar/ assignment
3 rd week of November 2017	<ul style="list-style-type: none"> • Conducting C2 (16th week of sem.) • Class test/seminar/assignment • Calculating class attendance
4 th week of November 2017	<ul style="list-style-type: none"> • Department meeting • Keeping record marks for C2
3 rd week of December 2017	Syllabus for CC1(theory +practical) should have been completed including providing necessary guidelines, pointers, study materials leaving them enough time to prepare for C3
1 st week of January 2018	Clearing last moment doubts of students regarding any portion of CC1 for C3