



Integrated Bachelor and Master Programmes in Biomedical Science
IBMP (Dietetics) Semester (II)

Paper Code	IS02CDET53	Periods per week	01
Title of the paper	Practical based on IS02CDET51 & IS02CDET52	Exam Duration	3 hrs
Total Credit of the Paper	01	Total Marks	50

Course Objectives: (As per Guidelines – I)	This course enables students to, 1. To gain practical knowledge by applying the experimental methods to correlate with the theory, learn the usage of different systems for various measurements and apply graphical analysis to the experimental data. 2. Provide knowledge about Practical based on Development Biology and get familiar with basic instrumental techniques.
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Unit	Description
1.	<ul style="list-style-type: none">Resolving power of a telescopeMeasuring wavelengths with a diffraction gratingDetermination of Cauchy's constantsDetermine the numerical aperture of an optical fibreMichelson's interferometer
2.	<ul style="list-style-type: none">To study the parts of a dicot flower.To study the parts of the monocot flower.To study the structure of <i>Cycas</i> male cone and microsporophylldemonstration of chick embryo to study the structureTo study the development of frogs.

* Units will have the same weightage in the evaluation as suggested in the course outline

Teaching-Learning Methodology (As per Guidelines –II)	Practical demonstration of each experiment will be conducted in group or individual with the help of availability of suitable lab equipment's and infrastructure.
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Evaluation Pattern



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Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance	15%
3.	University Examination	70%
4.	Minimum Passing Criteria:	

Course Outcomes: Having completed this course, student will be able to (As per Guidelines – III)

1.	Practical are conducted based on theory papers in order to strengthen the understanding behind concepts.
2.	Students are exposed to analytical instruments.

Suggested References: Include reference material from where a student is expected to study the said content in APA style. Reference websites can also be included. (As per Guidelines – IV)

Sr. No.	Reference
1.	B.Sc. Practical Physics, C L Arora, S. Chand & Co. Ltd., New Delhi (2018)
2.	Practical Physics (With Viva-Voce), Dr. S L Gupta and V Kumar, Pragati Prakashan, Meerut (2014)
3.	An Advanced Course in Practical Physics, D. Chatopdhyay, P.C. Rakshit, New Central Book Agency Pvt. Ltd (1990)
4.	Developmental Biology, A Guide for Experimental Study, by Mary S. Tyler
5.	Developmental Biology – Scott F. Gilbert – 8 th Edition, Sinauer Associates Inc., 2006
6.	Principles of Development – L. Wolpert – 4 th Edition, Oxford University Press, 2011.
On-line resources available that can be used as reference material (As per Guidelines –V)	
Sr. No.	On-line Resources



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1.	https://nptel.ac.in/courses/115/105/115105120/
2.	http://cbii-au.vlabs.ac.in/
3.	https://www.researchgate.net/publication/241594386_Key_Experiments_in_Practical_Developmental_Biology