



Project-2018-19

Class XI Sc.

Physics Project -1

Objective Students would be told to prepare project file on the following topics,

Topics : Physical world and measurement, Newton's Laws of Motion, project motion, vectors, Force, Work, Energy and power.

Methodology: Students will be told to give a write up and paste pictures on the above topics.

Learning Students would be able to learn

Outcome :

- i) How to search topics in various books, internet relate, Journals etc.
- ii) In detail about the topics allotted to them and relate them to everyday phenomenon and experiences
- (iii) The experience of sorting out the best concised matter from vast knowledge available about the topics.

Marking Scheme

Content	Preparation	Presentation	Result	Total
3	3	2	2	10

Physics 2

Objective Students would be told to prepare project files on the topics allotted to them which are from their syllabus.

Topics Circular Motion, center of Mass Gravitation, Friction, Rotational Motion, Elasticity

Methodology Students would be told to give a write up and paste pictures on the above topics

Learning

Outcome Students would be able to learn

- i) How to search for the topics in various books internet, journals etc.
- ii) In detail about the topics allotted to them and relate them to everyday phenomenon and experiences.

Marking Scheme

Content	Preparation	Presentation	Result	Total
3	3	2	2	10

Biotechnology :-1

Aim: To prepare a working model of a Bioreactor

Methodology :- Students will prepare a working model of a Bioreactor using cardboard, thermocol, sticks, straws etc.

This should include all the parts like sparger, PH/ temperature control, inlet, out let etc.

Learning Outcomes: - Students would be able to learn in detail about the parts of a Bioreactor.

Marking Scheme

Presentation	Explanation	Knowledge	Total
5	3	2	10

Project : 2

Aim : To Prepare a power point presentation on any one topic related to Biotechnology

Methodology Students will have to prepare a power point presentation on any topic related to Biotechnology. They would have to give presentations with the aids of slides prepared by them

Learning outcome They would learn thoroughly about the topics prepared. They would learn to make power point presentations and the process would enhance their knowledge and confidence.

Marking Scheme

Content	Presentation	Confidence + Voice Modulation	Solving the Queries	Total
3	3	3	1	10

Biology Project 1:-

Aim: - To prepare a working model of any one system of human body.

Methodology: - Students will prepare a working model of circulatory/excretory system. Use of thermocol is not allowed. It should exhibit the exact working upto the level of ISC [details should be included]

Learning outcome: - Students would be able to learn in detail about the structure and working of the system. They would be well prepared to solve the queries related to the same.

Marking Scheme:-

Presentation	Knowledge	Explanation	Total
4	3	3	10

Biology :-2

Aim:

Students would be taken for visit to Dr. B Lal's Institute of Biotechnology to acquaint them to various techniques used. In Biology.

Methodology: -

Students would have to prepare a project report including all the instruments seen and their use.

Learning outcomes:-

Students would be able to learn in detail about the various instruments used in Biotechnology lab whose principles are based on basic knowledge of Biology.

Marking Scheme

Content	Presentation + photos	Neatness	Understanding	Total
3	3	1	3	10

Chemistry:- Project 1

Aim: Students would be instructed to prepare project files on the topic allotted to them. The topics are mentioned below-

Methodology: - Students would be asked to give details of topic of project, draw figures or paste pictures relevant to topics

Learning outcomes:-

- (1) Students will search the detail information regarding the topics, They will have to consult different journals, books magazines Internet etc.
- (2) They will learn to brief the topics
- (3) They will learn to express the matter in short but efficiently
- (4) They may visit industry related topic for getting idea. This will help them to develop their knowledge and ideas
- (5) They will learn to present the matter.

Topics:

1. Determine the Quantity of Casein in Milk

2. Dyeing of Wool, Silk and Cotton in Malachite Green
3. Environmental Pollution
4. Extraction of Nicotine Sulphate from Samples of Cigarettes
5. Investigation Of Foaming Capacity Of Different Washing Soap

Marking Scheme

Content	Presentation	Preparation	Photographs	Total
3	3	2	2	10

Chemistry:- Project 2

Aim: Students would be instructed to prepare project files on the topic allotted to them. The topics are mentioned below-

Methodology: - Students would be asked to give details of topic of project, draw figures or paste pictures relevant to topics

Learning outcomes:-

- (1) Students will search the detail information regarding the topics, They will have to consult different journals, books magazines Internet etc.
- (2) They will learn to brief the topics
- (3) They will learn to express the matter in short but efficiently
- (4) They may visit industry related topic for getting idea. This will help them to develop their knowledge and ideas
- (5) They will learn to present the matter.

Topics:

1. Pesticides in Fruits and Vegetables
2. Preparation Of Soyabean Milk
3. Preparation of Toilet Soaps
4. Study of Constituents of an Alloy
5. Study of Content of Ascorbic Acid in Citrus Fruits

Marking Scheme

Content	Presentation	Preparation	Photographs	Total
3	3	2	2	10

