

AL AIN JUNIORS  
SCHOOL 2023-24

Summer  
holiday  
assignment  
Grade 11



AL AIN JUNIORS SCHOOL  
INDIAN SYSTEM

# *ENGLISH*

## **Objectives:**

1. Develop reading, writing and ICT Skills.
2. Enhance one's vocabulary
3. Encourage Life skills

## **TASK 1:**

“Writing comes from reading, and reading is the finest teacher of how to write.  
Reading brings us unknown friends.”

1. In the light of this read any two books of your choice and write a review on the same.
2. Present your work neatly in A4 sheets
3. The work must be hand written with neatness and legibility

## **Suggested Reading**

1. The Waste Land – T.S Eliot
2. The Story of Success - Malcolm Gladwell
3. Invisible Man - Ralph Ellison
4. Einstein's Dreams - Alan Lightman
5. The War of the Worlds - H. G. Wells

## **Assessment:**

Students' assignments will be assessed based on the following criteria:

- Accuracy
- Creativity
- Clarity and organization
- Neatness and legibility
- Coherence of the presentation

## **TASK 2:**

### **Class magazine:**

Students will contribute to the Class Magazine in the form of articles, poems, plays, short stories, amazing facts, research works, comic strips, crossword puzzles etc. It will be compiled after the vacation.

## *BIOLOGY:*

Learning outcome: Students will be able to apply and comprehend the scientific method.

Work product: Research Report

<b><i>SR.NO</i></b>	<b><i>LIST OF EXPERIMENTS</i></b>
<b><i>1</i></b>	Study of effects of fertilizers on the rate of growth of plants – JOHN ABRAHAM
<b><i>2</i></b>	Study of effect of antibiotics on microorganisms- KAUSHIK BALA
<b><i>3</i></b>	Study of breaking of dormancy of seeds by KNO <sub>3</sub> , ethylene and shoot elongation- BIBIN JOSEPH
<b><i>4</i></b>	Study of deficiency symptoms of various essential elements and minerals- ISAAC JOHN
<b><i>5</i></b>	Study of effect of light and gravity on plant growth movement- JOANNA BOBBY
<b><i>6</i></b>	Study of effect of gibberellins on seed germination and shoot elongation- NIDHI REDDY
<b><i>7</i></b>	Study of effects of herbicide on lawn seeds- RAYAN JAMALI
<b><i>8</i></b>	Study of dispersal of seeds by various agencies- AGNES
<b><i>9</i></b>	Comparative study of chlorophyll content in five different species- SURYA
<b><i>10</i></b>	. Report on Genetic variations in humans- KESIA SUNIL
<b><i>11</i></b>	Estimation of Vitamin-A content in different types of vegetables and fruits- AMRAHA
<b><i>12</i></b>	Harmful effects of mobile radiation in plants and animals-FATHIMA ZANHA
<b><i>13</i></b>	Effect of alkaline and acid in bacterial growth- RIYONA
<b><i>14</i></b>	Factors affecting the growth of bacteria-JOHNIAH JOEL
<b><i>15</i></b>	Inventory of weeds in aquatic bodies/agricultural fields -KEZIYA
<b><i>16</i></b>	Agrochemicals and their effects- MELISTA
<b><i>17</i></b>	Effect of music of various types and duration on plants-AFIA
<b><i>18</i></b>	Report on Genetic variations in humans-FATHIMA NAJAH

The format for the project work will be:

- Cover Page (It should be designed in a creative manner and must bear the title of the project i.e. name of the topic selected, Name, Class, Roll number).
- Project should be hand written in an A4 size coloured paper.
- Acknowledgment (To be written on a separate page).

- Table of Contents/ Index (to be written on a separate page)
- Introduction to topic.
- Detail of the content with colour pictures, images, tables, graph, observations wherever necessary (Collect more information).
- Conclusion
- Bibliography
- Do spiral Binding

**RUBRICS;**

1. Writes introduction	2. Designs experiment	3. States risks	4. Interprets results	5. Identifies errors in scientific procedure	6. Lists experimental improvements	7. Writes a conclusion	8. Uses scientific language	9. Adheres to word count	10. Presents poster in a scientific format
Conducts background research and designs methodology			Inquires scientifically			Communicate biological information and understands			

***RECORD WORK***

**A: (MAJOR EXPERIMENTS)**

**B- MINOR EXPERIMENTS**

# COMPUTER SCIENCE

## Topic - NumPy, Pandas and Matplotlib modules

Student should prepare an assignment on the above topic.

- 1) Use of each module.
- 2) Use of different methods/functions defined in each module.
- 3) Example programs and the output of each statement/code to be put in the report and the explanation of each statement using comments.
- 4) Brief description about each module with the functions defined in it should be given in the report.

The Assignment should contain:

Cover page,

Topic,

Index,

Brief description about each module and the functions defined in it.,

Conclusion and

Bibliography

- Photos/paper cuttings may be pasted.
- Screenshots of the code with the output should also be put in the report
- Project work should be handwritten.
- The Project File, marks are awarded based on: Content, Coverage, Presentation, Interpretation and Conclusion, Originality and Quality of work.

ARABIC:

كتب أسامة رسالة إلكترونية إلى صديقه بدر يخبره فيها عن مزرعته الجديدة.  
اقرأ الرسالة بعناية ثم أجب بوضع إشارة (✓) في المربع المناسب.

To: Bader@arabic.com

Subject: المزرعة الجديدة

كيف حالك يا بدر؟ أنا بخير وفرح لأن والدي اشترى لنا مزرعة جديدة خارج المدينة وتبعد عن بيتنا حوالي ساعة بالسيارة. المزرعة جميلة وكبيرة. هناك بيت صغير للإستراحة فيه ثلاث غرف نوم وحمّام، وهناك مطبخ حديث مفتوح على غرفة الجلوس والتي تشاهد منها المزرعة الواسعة.

في الجانب الأيسر لهذه المزرعة هناك أزهار مختلفة الألوان، وشجر فاكهة كالموز والليمون والتفاح وأيضاً توجد فراولة. في منتصف المزرعة هناك بحيرة جميلة فيها الكثير من الأسماك. يوجد مسبح على يمين الباب الرئيسي للمزرعة. أريدك أن تزورني قريباً لنلعب ونقضي وقتاً ممتعاً في مزرعتي.

مع تحياتي،

أسامة

اشترى والدي مزرعة في ...

مركز المدينة.	<input type="checkbox"/>	A
خارج المدينة.	<input type="checkbox"/>	B
داخل المدينة.	<input type="checkbox"/>	C

تشاهد من غرفة المعيشة ...

البحر.	<input type="checkbox"/>	A
الجبل.	<input type="checkbox"/>	B
المزرعة.	<input type="checkbox"/>	C

في الحديقة شجر ...

تفاح وليمون.	<input type="checkbox"/>	A
تفاح وبرتقال.	<input type="checkbox"/>	B
تفاح وإجاص.	<input type="checkbox"/>	C

تقع البحيرة في ...

جنوب المزرعة.	<input type="checkbox"/>	A
وسط المزرعة.	<input type="checkbox"/>	B
شرق المزرعة.	<input type="checkbox"/>	C

يقع المسبح على يمين ...

البحيرة.	<input type="checkbox"/>	A
شجر الزيتون.	<input type="checkbox"/>	B
مدخل المزرعة.	<input type="checkbox"/>	C



اقرأ النص التالي بعناية ثم أجب عن الأسئلة التي تليها باللغة العربية.

### رحلة الصحراء

اسمى صوفي وأنا سائحة فرنسية. أحببتُ فعل شيء جديد أثناء زيارتي لدبي فذهبت في رحلة إلى الصحراء. قبل الرحلة عرض علينا مكتب السياحة معلومات عن الصحراء تعلّمنا منها الكثير. قال مدير المكتب إن الصحراء مكان جاف وقليل الأمطار وحار جداً. يتغير الطقس فيها بدرجة كبيرة، حيث أن اختلاف الحرارة الهائل بين الصباح والمساء ينتج عنه رمال الصحراء. وقال إن النباتات والحيوانات التي تعيش في الصحراء لها صفات خاصة لهذا الجو. فنجد الحيوانات تحافظ على برودتها بإيجاد الماء الكافي لتخزينه في جسمها، أما النباتات فتكون عادة جافة وليس فيها أوراق وتحتاج إلى كمية قليلة جداً من الماء.

أجاب المدير على سؤال حول وجود المياه في الصحراء فقال "على الرغم من قلة الأمطار، توجد مياه داخل الأرض في بعض الأماكن كالبحيرات الصغيرة التي تساعد سكان الصحراء في تنقلهم لأنها تقدّم لهم وحيواناتهم وسيلة حياة أفضل. وهذا لأن السكان يستخدمون الماء للشرب والزراعة أحياناً".

ودُهشنا فعلاً بقوله إن الصحراء لها ألواناً مختلفة وذلك حسب لون الرمل وصفاته التي تسبب هذه الألوان. وشرح أن غناها بالشمس جعلها في بعض البلاد عاملاً مهماً للإستفادة من حرارة الشمس القوية عن طريق الألواح الشمسية.

في النهاية ذكر المدير أن الصحراء تغطي ثلث الكرة الأرضية، وأشهرها "الصحراء الكبرى" في أفريقيا، والصحراء العربية ذات التلال الرملية و"الربع الخالي" المشهور في السعودية. كنت أتطلع بفرح لهذه التجربة الخاصة.



مَن علّم صوفي عن الصحراء في بداية الرحلة؟

كيف تتنّج الرمال في الصحراء؟

اذكر صفة لحيوانات الصحراء.

ما شكل نبات الصحراء؟

من أين يحصل سكّان الصحراء على الماء؟ اذكر نقطتين.

(i)

(ii)

لماذا هناك ألوان مختلفة في الصحراء؟

كيف يمكن تخزين حرارة الشمس في الصحراء؟

ما اسم الصحراء في السعودية؟

## CHEMISTRY:

### INVESTIGATORY PROJECT

Sl. No	Names	TOPICS
	Afia ;Naja; Amraha;Rayan	Investigating the Effects of pH on Enzyme Activity: Explore how different pH levels affect the activity of enzymes by conducting experiments using a specific enzyme and varying pH solutions.
	Zanha ;Hayah ; Joanna;Nidhi	Analyzing the Vitamin C Content in Different Fruit Juices: Determine the amount of vitamin C present in various fruit juices using titration methods and compare the results to the labeled vitamin C content
	Johniah ;Agnes; Riyona Mathew	Investigating the Factors Affecting the Rate of a Chemical Reaction: Choose a specific chemical reaction and study how factors such as temperature, concentration, or catalysts influence the reaction rate.
	Kezia ;Surya; Niveditha;Sreenidhi	Determining the Optimal Conditions for Electroplating: Investigate the effects of different parameters (e.g., voltage, concentration, time) on the quality and rate of electroplating by experimenting with different metals and electrolyte solutions
	Abdul Rahman;Adithya Adithyan; Ranon	Analyzing the Effectiveness of Natural Antacids: Compare the neutralizing capacity of various natural substances (e.g., baking soda, lemon juice, crushed antacid tablets) to commercial antacid tablets using acid-base titration.
	Arpan ;Benjamin ; Bibin ; Isaac	Investigating the Factors Affecting the Efficiency of Solar Cells: Study the impact of variables such as light intensity, temperature, and different types of solar cell materials on the efficiency of solar cells by constructing and testing solar cell prototypes.
	Chris ;Jeremiah ; Jack, Abdul Raof	Investigating the Effects of Different Metal Ions on the Growth of Aquatic Plants: Expose aquatic plants to solutions containing different metal ions (e.g., copper, iron, zinc)
	John;Kalvin;Karthik; Kaushik ;Mervyn	Analyzing the Antibacterial Properties of Natural Plant Extracts: Extract and test the antibacterial properties of various plant extracts (e.g., garlic, ginger, neem) against common bacteria strains, comparing their effectiveness to standard antibiotics

RUBRICS	Marks
Develop research skills	2
Apply theoretical knowledge	2
Analyze and interpret data	2
Communicate findings	2
Critical thinking skills	2

**Date of Submission 04-09-2023(Mondav)**

## PHYSICS:

### ASSESSMENT TECHNIQUE: INVESTIGATORY PROJECT

OBJECTIVE: Physics is known as the science of energy and matter. It includes the study of energy, matter related to light, heat motions and force. Well, the extension of modern physics has expanded to nuclear physics, plasma, particles and cryogenics. Explore the laws of physics and its role in our daily life with these Physics fair projects. Choose any one investigatory project, relate it to real life experiences, and explore the world of Physics.

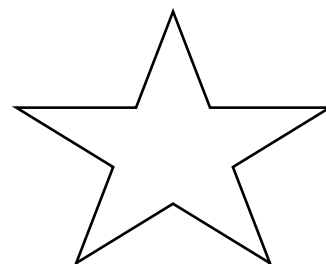
[CHOOSE ANY ONE FROM THE GIVEN LIST OR YOU CAN DO YOUR OWN PROJECTS .....Make working models, still models, AI integrated and Art integrated projects.....choice is yours]

1.	To Study of Pascal's Law and its Applications. [RELATE TO REAL LIFE SITUATIONS]
2.	To Study and Analysis of the Black Hole Thermodynamics.
3.	To make a Solar Power Grill from the Recycled Carton Box.
4.	Physics Project on Nanotechnology: The Smaller-The Stronger.
5.	Study of the Observations of Gas Present in Infrared Spectrum.
6.	To Study and Perform the Zero Gravity Elevator Physics Experiment.
7.	To Study the Frequency Relationship of the Nodes in Musical Harmony.
8.	To Study the Various Effects of Temperature on the Disposable and Non- Disposable Batteries.
9.	Verification of Hooke's law.
10.	To demonstrate that sound needs a material medium for propagation.
11.	To design an appropriate logic gate combination for a given truth table. (AI INTEGRATED)
12.	Use Google map in determining speed limits for vehicles in UAE and find out the vehicles that crosses the speed limit (using artificial intelligence). Analyse the accident rates and its severity due to this negligence and comment on it. [Rule Based AI. students go to <a href="https://maps.google.com">https://maps.google.com</a> and enter a specific source and destination.]
13.	Innovative working models with video/Audio presentation. Toy making from thrash <a href="http://youtube.com/watch?v=YOllmFfELT8">http://youtube.com/watch?v=YOllmFfELT8</a>
	<b>❖ TAKE PRINT OUT OF THE PROJECT AND SUBMIT IT AS A FILE:</b> <b>❖ Make power point presentation /video presentation of the given project.</b>

### Rubrics for assessment:

#### PROJECT COMPLETION (5)

1. UNDERSTANDING (1)
2. RELEVANCE AND DEVELOPMENT OF TOPIC (1)
3. APPLICATION/ INNOVATION (1)
4. CREATIVITY (1)
5. SCIENTIFIC ATTITUDE (1)



# PSYCHOLOGY:

## PROJECT – CASE STUDY ON ANY PSYCHOLOGICAL DISORDER.

Instructions and Guidelines :

1. The students shall be required to undertake one project during vacations.
2. Some of psychological disorders to be selected are Anxiety disorder, somatoform disorder, dissociative disorder, mood disorder, substance abuse etc.
3. Students should prepare a case study on real life client who are suffering from any of above disorder.
4. The project would involve the use of different methods of enquiry and related skills.

The format for the project work will be:

### 1. Your case study file must cover these points/ headers:

- a. Cover Page (It should be designed in a creative manner and must bear the title of the project i.e. name of the topic selected for case study).
- b. Acknowledgment (To be written on a separate page).
- c. Table of Contents/ Index ( to be written on a separate page)
- d. Introduction to topic and History/background of topic if any
- e. Types/ Causes/ Effects- related to the topic if any
- f. Concordance rate/ Gender Differences/ Comorbidity related to topic- if any (Data and facts related to topic)
- g. Prevention/ Cure/ Treatment/ Ways of enhancing related to the topic if any
- h. Current issues or news/ latest updates related to topic
- i. Interaction with the subject on whom you have prepared the case study
- j. Your observations about the case study and your suggestions as a student of Psychology for improving / aiding/ helping the subject.
- k. Conclusion of the case study.

Bibliography – Listing all the reference sources from where you got all the information like official websites, books, journals, magazines.(Avoid giving reference of Wikipedia, Quora, Google, YouTube etc.)

- m. Case study should be of 3,500-4,000 words.( Roughly 35 to 40 sheets).

Month	Periodic work	Assessment Rubrics	Marks
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June-September	Content/data analysis and interpretation. Conclusion, Limitations, Suggestions, Bibliography, Annexure and Overall Presentation of the project.	Content analysis and its relevance in the current scenario. Conclusion, Limitations, Bibliography, Annexure and Overall Presentation.	15
January/ February	Final Assessment, Viva, Practicals.	Internal Viva based on the project and chapters	5
Practicals	Psychological Tests	Lab Manual	10
		Total	30

### Viva-Voce

- At the end of the stipulated term, each learner will present the research work in the Project File to the Internal Examiner.
- The questions should be asked from the Research Work/ Project File of the learner.
- The Internal Examiner should ensure that the study submitted by the learner is his/her own original work.
- In case of any doubt, authenticity should be checked and verified.

Dear Students,

Please complete all your notebook related pending work till **Chapter 4** and submit it for correction  
Seasonal Greetings and Happy Vacation.

### *ISLAMIC STUDIES:*

Prepare a booklet on “Biography of Zaid bin Harithah (RA) and Zainab bint Jahash (RA).

# *ECONOMICS AND MARKETING:*

Dear students,

Here is the subject wise holiday assignments. Kindly go through the instructions carefully (under each subjects), complete the task and submit them on the reopening day of the school after summer vacation.

## **SUBJECT: MARKETING**

### **Guidelines for Project Work in Marketing (Class XI)**

The objectives of the project work are to enable learners to:

- Probe deeper into theoretical concepts learnt in class XI
- Analyse and evaluate real world marketing scenarios using theoretical constructs and Arguments
- demonstrate the learning of marketing theory
- Follow up aspects of marketing and employability skills in which learners have interest
- develop the communication skills to argue logically

### **The expectations of the project work are that:**

- Learners will complete only ONE project in each academic session.
- Project should be of 3,500-4,000 words (excluding diagrams & graphs), preferably Hand-written.

Learners may work upon the following lines as a suggested flow chart: Choose a title/topic

- 1) Collection of the research material/data
- 2) Organization of material/data
- 3) Present material/data
- 4) Analysing the material/data for conclusion
- 5) Draw the relevant conclusion.
- 6) Tables and graphs of the related topics.
- 7) Making vedio,PPT based presentation to get through the test on demonstration of skill competency.

### **Presentation of the Project Work**

Expected Checklist:  Introduction of topic/title  Identifying the causes, consequences and/or remedies  Various stakeholders and effect on each of them  Advantages and disadvantages of situations or issues identified  Short-term and long-term implications of marketing strategies suggested in the course of Research  Validity, reliability, appropriateness and relevance of data used for research work and for presentation in the project file  Presentation and writing that is succinct and coherent in project file  Citation of the materials referred to, in the file in footnotes, resources section, Bibliography etc.

### **Mode of presentation/submission of the Project:**

At the end of the stipulated term, each learner will present the research work in the Project File to the External and Internal examiner.

The questions should be asked from the Research Work/ Project File of the learner.



The Internal Examiner should ensure that the study submitted by the learner is his/her own original work. In case of any doubt, authenticity should be checked and verified.

The presentation of each student will be assessed(in terms skills). The vedio and PPT like materials utilised for undergoing the skill competency test will be scrutinised.

#### Marking Scheme:

S.No	Elements	Marks
1	Project	10
2	Practical file	15
3	Demonstration pf skill competency via Lab activity	10
4	Viva-voce	5
5	Total	40

#### Suggested list of projects:

Students should do any one of the following projects.

1. Prepare a practical file by collecting print advertisements and analysing the message conveyed in marketing of goods, services people, ideas, experience, events, places, properties, organisations and information. Suggest an alternative mode of communication to the firm and create an advertisement for the same.
2. Visit in a group to different marketing organisations in your locality (distributors, wholesalers, retailers). Make a detailed project report to find the marketing activities of each of them respectively. Also identify different activities followed in selling and marketing(**Permission will be granted if the normalcy revisited after corona effect petered out**)
3. Prepare a project report on macro environmental scanning of a firm or an industry of your choice.
4. Identify a firm of your choice and prepare a detailed file on its micro environment.
5. Prepare a project report by visiting your nearby market and find how many atta (or pen) brands are available? Which brand is targeting which segment of the market and why? Also discuss targeting and positioning strategy of the brand. Suggest alternative strategies and justify.(**Permission will be granted if the normalcy revisited after corona effect petered out**)
6. Prepare a detailed report of the marketing mix of a prominent consumer good and a service provider, for its multiple brands.
7. Interview your friends, parents, relatives for a recent purchase made by them. Prepare a detailed project report on the same.(**Permission will be granted if the normalcy revisited after corona effect petered out**)
8. In today's context, take example of at least 10 industries working in different sectors for their ETOP profit.
  - How the price crude oil and politics play a role in the establishment and survival of own industry.

#### 9. Selling Vs. Marketing:

- a) Why is selling a part of marketing?
- b) Suggest with suitable example of different companies with their brands.



- c) How is the marketing concept applied in those different companies.
- d) Compare the concept of selling with marketing.
- e) Concept/ Philosophies of Marketing
- f) Collection of name of different companies with their product.
- g) Classify their products and identify the marketing concept/ Philosophy used by the company to be in the market.

**Questionnaire:**

Your project work should be well backed by the novel evidence that you have through conducting surveys. While conducting surveys, you have to prepare the questionnaire(having essential questions) in full fledged manner.

- Questionnaire should be of 4 Pages. The survey to be administered to 10 respondents.
- Each product should be compared with any 3 brands of choice.
- Questions should include all elements mentioned in the questions.
- Prior consent regarding the questions in the questionnaire to be taken from the subject teacher before the survey is administered.
- Students should take their Emirates Id and certificate provided during their visit.
- The survey can be permitted in line with ADEK Guidelines to be followed by the school in the midst of Covid-19 pandemic.

**Essentials:**

- The total length of the project will be of 35 to 40 pages. (Excluding questionnaire and 10 graphs with observations).
- The project should be handwritten in blue/ black pen.
- The project report should be developed in the following sequence Cover page should include the title of the Project, student information, school and year. List of contents. Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped).
- Introduction.
- Topic with suitable heading. Planning and activities done during the project, if any. Observations and findings of the visit. Conclusions (summarized suggestions or findings, future scope of study). Photographs (if any).
- Appendix Teacher's observation. Signatures of the teachers.

**SUBJECT:ECONOMICS**

**Guidelines for Project Work in Economics (Class XI)**

The objectives of the project work are to enable learners to:

- Probe deeper into theoretical concepts learnt in class XI
- analyse and evaluate real world economic scenarios using theoretical constructs and Arguments
- demonstrate the learning of economic theory
- Follow up aspects of economics in which learners have interest

- develop the communication skills to argue logically

The expectations of the project work are that:

- Learners will complete only ONE project in each academic session.
- Project should be of 3,500-4,000 words (excluding diagrams & graphs), preferably Hand-written.**

- It will be an independent, self-directed piece of study

**Learners may work upon the following lines as a suggested flow chart: Choose a title/topic**

- 1) Collection of the research material/data
- 2) Organization of material/data
- 3) Present material/data
- 4) Analysing the material/data for conclusion
- 5) Draw the relevant conclusion

### **Presentation of the Project Work**

expected Checklist:

- Introduction of topic/title  Identifying the causes, consequences and/or remedies
- Various stakeholders and effect on each of them
- Advantages and disadvantages of situations or issues identified
- Short-term and long-term implications of economic strategies suggested in the course of Research
- Validity, reliability, appropriateness and relevance of data used for research work and for presentation in the project file  Presentation and writing that is succinct and coherent in project file
- Citation of the materials referred to, in the file in footnotes, resources section, Bibliography etc.

### **Mode of presentation/submission of the Project:**

At the end of the stipulated term, each learner will present the research work in the Project File to the External and Internal examiner.

The questions should be asked from the Research Work/ Project File of the learner.

The Internal Examiner should ensure that the study submitted by the learner is his/her own original work. In case of any doubt, authenticity should be checked and verified.

### **Marking Scheme:**

**Marks are suggested to be given as – Marks Allotted**

### **TOPICS:**

**Suggestive List of Projects:**

Class XI	
• Effect on PPC due to various government policies	• Invisible Hand (Adam Smith)
• Opportunity Cost as an Economic Tool (taking real life situations)	• Effect of Price Change on a Substitute Good (taking prices from real life visiting local market)
• Effect on equilibrium Prices in Local Market (taking real life situation or recent news)	• Effect of Price Change on a Complementary Good (taking prices from real life visiting local market)
• Solar Energy, a Cost Effective Comparison with Conventional Energy Sources	• Bumper Production- Boon or Bane for the Farmer
• Any other newspaper article and its evaluation on basis of economic principles	• <b>Any other topic</b>

S. No	Items	Marks
1	Relevance of the topic <b>3</b>	3
2	Knowledge Content/Research Work <b>6</b>	6
3	Presentation Technique <b>3</b>	3
4	Viva-voce <b>8</b>	8
5	<b>Total</b>	<b>20</b>

## *ACCOUNTANCY:*

### **Topic- SOURCE DOCUMENT AND PREPARATION OF VOUCHERS**

Student should prepare an assignment on the topic – SOURCE DOCUMENTS AND VOUCHERS

- 5) Meaning and concept of Source documents and Vouchers
- 6) Types of Vouchers
- 7) Preparation of Vouchers
- 8) Collect/Draw pictures of Accounting Vouchers and affix them on the left side of the pages.

### **General Guidelines for Project Work.**

By means of Project Work, the students are exposed to life beyond textbooks giving them opportunities to refer to materials, gather information, analyze it further to obtain relevant information, and decide what matter to keep.

**The Assignment should contain**

Cover page,  
Topic,  
Index,  
Data collected,  
Conclusion and  
Bibliography

- **Photos/ paper cuttings are all pasted on the left side of the paper.**
- **Project work should be hand written.**
- **The Project File, marks are awarded based on - Content, Coverage, Presentation, Interpretation and Conclusion, Originality, and Quality of work.**

## ***BUSINESS STUDIES:***

### **G**eneral Guidelines for Project work.

By means of Project Work the students are exposed to life beyond textbooks giving them opportunities to gather information, analyze it further to obtain relevant information and decide what matter to keep.

### **ASSESSMENT**

The marks will be allocated on the following heads.

1. Initiative, cooperativeness and participation
2. Creativity in presentation
3. Content, observation and research work
4. Analysis of situations
5. Viva

Project file should contain:

Cover page

Certificate

Statement of the problem/Name of the Project

Acknowledgement

Index

Objectives.

Introduction of the project.

Source Material

Tools of Analysis used

Diagrammatic/graphic presentation- pie diagrams, bar diagrams, and graphs.

Analysis, Interpretation, and Conclusion.

Assumptions (if any)

Bibliography

. Students must take any one topic during the academic session of Class XI

Project One: Field Visit

Visit to a Handicraft Unit

Visit to an Industry.

Visit to a whole sale market: vegetables/fruits/flowers/grains/garments etc.

Visit to a Departmental store

Visit to a Mall.

Project Two: Case Study on a Product

Take a product having seasonal growth and regular demand with which students can relate.

**For example,**

Apples from Himachal Pradesh, Kashmir.

Oranges from Nagpur,

Mangoes from Maharashtra/U.P./Bihar/Andhra Pradesh etc.

Strawberries from Panchgani,

Alivora from Rajasthan,

Walnuts/almonds from Kashmir,

Jackfruit from South,

Guavas from Allahbad,

Fishes from coastal areas.

Dates of UAE Or any other product which students prefer.

Students may develop a Case Study on the following lines:

Research for change in price of the product. For example, apples in Himachal Pradesh / dates in UAE during non-plucking season.

Effect on prices in the absence of an effective transport system.

Effect on prices in the absence of suitable warehouse facilities.

Duties performed by the warehouses.

Demand and supply situation of the product during harvesting season, prices near the place of origin and why they may be motivated to find out the importance of producing and selling these products and their processes with the roles of Transport, Warehousing,

### III- PROJECT THREE -AIDS TO TRADE

Banking. Take banking as aids to trade and gather the following information.

Development of banking in India/ UAE

Types of banks

Functions of banking

Service of banks

Types of deposit accounts

Importance of banking in Indian economy/ UAE economy

Banking regulation Act.

RBI/ Central Bank of UAE

Insurance

Insurance and gathering information on following aspects

1. History of Insurance Lloyd's contribution.
2. Development of regulatory Mechanism.
3. Insurance Companies in India/ UAE
4. Principles of Insurance.
5. Types of Insurance.
6. Importance of insurance to the businessmen.
7. Insurance for crops, orchards, animal and poultry insurance to the farmers.
8. Terminologies used (premium, face value, market value, maturity value, surrender value) and their meanings.
9. Anecdotes and interesting cases of insurance. Record films depicting people committing fraudulent acts with insurance companies.
10. Careers in Insurance.

## *MATHS:*

1. Choose any one of the activities from the given ncert lab manual .

<https://ncert.nic.in/pdf/publication/sciencelaboratorymanuals/classXI/matematics/kelm4 01.pdf>

Prepare a neat model, with objective, materials required, methods of construction, demonstration observation and application.

- a) Activity 1- To find the number of subsets of a given set and verify that if a set has  $n$  number of elements, then the total number of subsets is  $2^n$
  - b) Activity 3 -To represent set theoretic operations using Venn diagrams
  - c) Activity 4- To verify distributive law for three given non-empty sets A, B and C, that is,  $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$
  - d) Activity 8- To find the values of sine and cosine functions in second, third and fourth quadrants using their given values in first quadrant
  - e) Activity 9- To prepare a model to illustrate the values of sine function and cosine function for different angles which are multiples of  $\pi/2$  and  $\pi$
  - f) Activity 10- To plot the graphs of  $\sin x$ ,  $\sin 2x$ ,  $2\sin x$  and  $\sin 2x$  , using same coordinate axes.
2. To solve any five questions from each lesson (miscellaneous exercises) of the concluded chapters.



