

SHAMBHU DAYAL GLOBAL SCHOOL HOLIDAY HOMEWORK (2025-26) CLASS – XII

ENGLISH	PHYSICS	CHEMISTRY	BIOLOGY	MATHEMATICS
RESEARCH PROJECT	Make a project report by	Prepare an Investigatory	Prepare an	Topic: Applications of
TOPICS:	selecting any of these projects	project on the following	investigatory project	Mathematics in Daily
Talking Cultures	from below:	given topics-	on	Life
(Speaking Etiquettes)	Half-Wave Rectifier Circuit	(Follow your roll	1. Genetic and	Objective:
Roll N0-1-4	Demonstrate the conversion	numbers strictly-)	chromosomal	To understand how various
• "Earn While You Learn" Roll No	of AC to DC using a single	• Study of the presence	disorders (Akarshan	mathematical concepts
5-8	diode rectifier setup.	of oxalate ions in guava	and Sumit)	learned in class 12 are
• Parents should control their kids	 Full-Wave Rectifier using 	fruit at different stages	2.Drug Addictions	applied in real-world
"Social Media Accounts" Roll	Bridge Configuration	of ripening. (Roll No. 1	(Kanishka and	situations like finance,
No- 9-12	Build a bridge rectifier to	to 7)	Vaishnavi)	architecture, navigation,
How Depression Affects Human	convert AC to DC with higher	• Study of quantity of	3. Microbes in	technology, and data
Behaviour? Roll No 13-16	efficiency than a half-wave	casein present in	human welfare	analysis.
• Influence of Modern Technology	rectifier.	different samples of	(Shubham and	Mathematics Concepts
on the Quality of the Education.	• Wireless Electricity	milk. (Roll No. 8 to	Rohan)	• Applications of Calculus
Roll N0- 17-20	Transmission	14).	4. Human Genome	in Real Life.
• How has the Role of Women in	Illustrate the concept of	• Preparation of soybean	project (Nitish and)	• Probability in Daily Life
the Military changed? R0ll N0-	transmitting electrical energy	milk and its	5. ABO Blood group	and Games
21-24	without wires using resonant	comparison with the	inheritance	• Determinants and Their
• Cyber Crime is the New	inductive coupling.	natural milk with	pattern.(Anirudh and	Use in Solving Linear
Terrorism. Roll No 25-28	• Charging and Discharging of	respect to curd	Jasmeet)	Equations
• European Influence on Fashion in	a Capacitor	formation, effect of	6. Detailed study of	• Matrix Algebra and
the world. Roll No- 29-32	Observe and plot the charging	temperature, etc. (Roll	intertifity its causes	Cryptography
• Influence of Mother Tongue in	and discharging curves of a	No. 15 to 21).	(A ditus and Masha	• Mathematics in
English Language. Roll No 33-36	capacitor in an RC circuit.	• Study of the effect of	(Autiya and Megna 1 Project Penert:	Architecture and
• Does Beauty determine how	• Generation of Electrostatic	Potassium Bisulphate	Propara a wall	Construction
much a person will be successful	Charges	as food preservative	organized report	• Use of Mathematics in
in life?RollNo-37-40	Create and study electrostatic	under various	including.	Sports (Angles, Speed,
• People Management and	charges using different	conditions	Title nage	Probability)
Leadership Qualities. Roll No 41-	materials and measure their	(temperature,	Acknowledgments	• Mathematics in
44	Ellects.	ota) (Pall Na 22 ta	Aim and objectives	Navigation and GPS
• Influence of Mother Tongue in	• Electromagnetic Induction	$(\mathbf{K} 0 1 \mathbf{N} 0, 22 10$	Introduction and	• Use of Matrices in
English Language. Roll No 45-48	Using a Coll and Magnet	20 <i>)</i> .	background	Image Processing
	Show how a changing			

 Does Beauty determine how much a person will be successful in life. Roll N0- 49-52 People Management and Leadership Qualities. Roll No 53- 56 NOTE- This project-Portfolio is a compilation of the work that the students will submit in the first week of July. Individually Student has to prepare The Research Project. Annual Viva (ASL) will be conducted based on this project only in the month of January. *The Project-Portfolios must include the following areas: * Cover page, Title page, school details. *Abstract and Table Content * Statement of purpose/ objectives/Goals * Literature Review * Research Design and Methods * Implication and Contribution to Knowledge (Acknowledgement) * Certificate of completion under the guidance of the teacher. * The 800-1000words essay/script/ Report * If possible, photograph that Capture the positive experience of the students. * Reference (List of resources) NOTE- Research Project Word Lie (1990) 	 magnetic field induces current in a coil of wire. Ohm's Law Verification Experimentally verify Ohm's Law by plotting voltage vs. current across a resistor. Logic Gates using Discrete Components Construct basic logic gates (AND, OR, NOT) using diodes and resistors. Study of Series and Parallel Resistances Investigate how resistances combine in series and parallel and verify with theoretical calculations. Effect of Temperature on Resistance of a Wire Explore how the resistance of a metallic conductor changes with temperature. Note: You can modify or change project as it has to be evaluated in your final examination but remember theme must be based on Electromagnetic Theory or PHYSICS in particular. 	 Comparative study of the rate of fermentation of following materials: wheat flour, gram flour, potato juice, carrot juice, etc. (Roll No. 29 to 35). Extraction of essential oils present in Saunf (aniseed), Ajwain (carom), Illaichi (cardamom). (Roll No. 36 to 42). Study of common food adulterants in fat, oil, butter, sugar, turmeric power, chili powder and pepper. (Roll No. 43 to 48). Note- You will use a paper tucking file in which pages can be assorted. Use One side line- coloured pages the colour should be bright so that the written content can be viewed easily. Paste the necessary photographs of the related investigation on the blank side of page. Follow the given sequence- Topic 	Materials and methods Observations and results (with tables, graphs, photos) Discussion and conclusion Bibliography and references	 Application of Derivatives in Business and Economics Role of Mathematics in Machine Learning and AI Mathematics in Astronomy Data Analysis Using Statistics and Probability Would you like help with one full project based on any of these topics Guidelines for Project Submission Format: Handwritten or typed report, 10–15 pages. Components: Title Page Table of Contents Introduction Objective Methodology Data/Findings Analysis Conclusion Bibliography Presentation: Use of diagrams, charts, and illustrations to enhance understanding. Submission: Hard copy.
NOTE- Research Project Word		• Topic		copy.
Limit (800-1000 essay/script/		• Certificate		
Report)		Declaration		

*The following points must be		Acknowledgement		
kept for consideration while		 Aim of the Project 		
assessing the project portfolios		 Ann of the Troject Objective of the 		
*Ouality of content of the project		• Objective of the Project		
*Accuracy of information				
*Adherence to the specified		• Introduction		
timeline		• Apparatus required		
*Content in respect of (spelling,		• Procedure		
Grammar. Punctuation)		• Observation		
*Clarity of thoughts and ideas		• Conclusion		
*Creativity		• Precautions		
* Knowledge and experience gain		 Bibliography. 		
BUSINESS STUDIES	EP	ECONOMICS	MEDICAL	РНЕ
		` `	DIAGNOSTIC	
Prepare a Board Project File on	Students will make a project file	Project Report:	Preparation of project	PRACTICAL: I (Do this
given topics as per your name.	on self-made business project	"Understanding Methods	by students in	work in the practical file, it
Topic –1 BUSINESS	plan with market research as	of Calculating National	following topic-	will be included in it)
ENVIRONMENT	directed in class.	Income"	- biomedical	TOPIC: -Yoga as
Subtopics: 1. Changing Role of	Contents of the Business Plan:	Task: Prepare a	Waste management	Preventive Measure for
the Women in past 30 years	1.Executive Summary –	comparative report on the	-personal protection	Lifestyle Disease(unit-3)
2. Women as a Bread Earner	Overview of the business idea.	three methods of national	-hand hygiene	Requirements: Students
3. Child labour laws and	2. Business Description – Name,	income calculation:	-management of	must demonstrate any two
implementation and	Logo, Mission, Vision.	Value Added Method	spills	asanas for each lifestyle
consequences	3. Product/Service Details –	Income Method		disease, explaining their
(Alloted TO Anushi, Anushka,	Features, USPs, Utility.	Expenditure Method		relevance and precautions.
Mayank Kumar, Parth Goel,	4. Market Analysis – Target	Include:		1. Obesity: Procedure,
Ramandeep, Rishabh Gupta,	market, Competitors.	Simple numerical		Benefits &
Ronak Mishra, Vashnavi Goel)	5. Marketing Plan – Promotion,	examples for each		Contraindications for
Topic-2 Principles of	Pricing, Place, Packaging.	method		Tadasana, Katichakrasana,
Management	6. Operational Plan – Process of	A flowchart showing the		Pavanmuktasana,
Alloted to Aahana, Akshat Goyal,	production/service delivery.	steps involved		Matsayasana, Halasana,
Akshat Nagar, Arpıt,	7. Organizational Plan – Type	Limitations or		Pachimottansana, Ardha –
Bhanu,Daksh,Gurmanpreet,Harsh	of ownership, Human	precautions while using		Matsyendrasana,
yadav, Krishna Goel, Manav	Resource Planning.	each method		Dhanurasana, Ushtrasana,
Singh, Nishant, Piyush)	8.Financial Plan – Startup cost,	Objective: To help		Suryabedhan pranayama.
Topic –3 Marketing	Source of funds, Break-even	students understand the		2. Diabetes: Procedure,
Management	analysis, Estimated Profit &	practical application and		Benefits &
STUDENTS WILL MAKE ON	Loss.	challenges in national		Contraindications for
PRODUCT BASED PROJECT		income accounting.		Katichakrasana,
FILE.				

Alloted to Aarohi, Aman Arora,	Social Responsibility – Eco-	Case Study: "Why Per	Pavanmuktasana,Bhujang
Aman Jindal, Ansh	friendly practices or CSR	Capita Income Alone Is	asana, Shalabhasana,
Goel, Deepanshi, Devansh,	initiatives.	Not a Good Measure of	Dhanurasana,
Jasmeet, Kartik, Krishna agrawal,	Length: 25–30 pages	Welfare"	Suptavajarasana,
Lakshay Parcha, Manthan	Format: A4 size	Task: Write a short case-	Paschimottanasan -a,
saman ia , Prabhkirpa, Radhika,	Handwritten (preferred by	based essay (500–600	Ardha -Mastendrasana,
Rishika, Samaira, Vansh verma,	CBSE)	words) explaining why	Mandukasana,
Vasu, Viyom, Yashika)	Well-labeled sections	countries with high per	Gomukasana, Yogmudra,
	Graphs, charts, tables where	capita income may still	Ushtrasana, Kapalabhati.
	required	have poor living	
	Original Work: Avoid copying	conditions.	3. Asthma: Procedure.
	from the internet.	Include:	Benefits &
		Real-world examples	Contraindications for
		(like comparison between	Tadasana,
		India and Gulf co	Urdhwahastottansana.
			UttanMandukasan -a.
			Bhujangasana.
			Dhanurasana. Ushtrasana.
			Vakrasana, Kapalbhati,
			Gomukhasana
			Matsvaasana. Anuloma –
			Viloma.
			4. Hypertension:
			Procedure. Benefits &
			Contraindications for
			Tadasana, Katichakransan,
			Uttanpadasana, Ardha
			Halasana. Sarala
			Matyasana, Gomukhasana.
			UttanMandukasan-a.
			Vakrasana, Bhujangasana
			Makarasana, Shavasana
			Nadishodhanapranavam
			Sitlipranavam
			5. Back Pain and
			Arthritis: Procedure.
			Benefits &
			Contraindications of
			Tadasan, Urdhawahastoot

ACCOUNTANCYPSYCHOLOGYSOCIOLOGYELEC & HARDDATA SCIENCEOne specific project based on financial statement analysis of a company covering any two aspects from the following:1.Write in your words, what sibling in terms of (a) Intelligence (b) AttitudeChoose a social institution (e.g., family, education, religion, economy, polity) and analyze how the increasing use ofProject Title: Build a Basic Electronic Appliance• Economic Inequality Study0.Intelligence (c) Interest(c) Interest(c) Interest• Choose a social institution (e.g., family, economy, polity) and analyze how the increasing use of• Choose any one your country/state • Calculate Gini
ACCOUNTANCYPSYCHOLOGYSOCIOLOGYELEC & HARDBata Maysyendrsana, Bhujandg asana, Gomukh asana, Bhadrasana, Makarasana, NadiShodhana pranayama.ACCOUNTANCYPSYCHOLOGYSOCIOLOGYELEC & HARDDATA SCIENCEOne specific project based on financial statement analysis of a company covering any two aspects from the following:1.Write in your words, what makes you different from your sibling in terms of (a) IntelligenceChoose a social institution (e.g., family, education, religion, economy, polity) and analyze how the increasing use ofProject Title: Build a Basic Electronic Appliance• Economic Inequality Study0.Intelligence (b) Attitudeeconomy, polity) and analyze how the increasing use ofChoose any one project: 1. Automatic Night• Calculate Gini
ACCOUNTANCYPSYCHOLOGYSOCIOLOGYELEC & HARDBhujandg asana, Gomukh asana, Bhadrasana, Makarasana, NadiShodhana pranayama.ACCOUNTANCYPSYCHOLOGYSOCIOLOGYELEC & HARDDATA SCIENCEOne specific project based on financial statement analysis of a company covering any two aspects from the following:1.Write in your words, what makes you different from your sibling in terms of (a) Intelligence (b) AttitudeChoose a social institution (e.g., family, education, religion, economy, polity) and analyze how the increasing use ofProject Title: Build a Basic Electronic Appliance• Economic Inequality Study1. Comparative and common(c) Interestincreasing use of1. Automatic Night• Calculate Gini
ACCOUNTANCYPSYCHOLOGYSOCIOLOGYELEC & HARDDATA SCIENCEOne specific project based on financial statement analysis of a company covering any two aspects from the following:1. Write in your words, what makes you different from your sibling in terms of (a) Intelligence (b) AttitudeChoose a social institution (e.g., family, education, religion, economy, polity) and analyze how the increasing use ofProject Title: Build a Basic Electronic Appliance• Economic Inequality Study1. Comparative and common(c) Interestincreasing use of1. Automatic Night• Calculate Gini
ACCOUNTANCYPSYCHOLOGYSOCIOLOGYELEC & HARDMakarasana, NadiShodhana pranayama.ACCOUNTANCYPSYCHOLOGYSOCIOLOGYELEC & HARDDATA SCIENCEOne specific project based on financial statement analysis of a company covering any two aspects from the following:1. Write in your words, what makes you different from your sibling in terms of (a) Intelligence (b) AttitudeChoose a social institution (e.g., family, education, religion, economy, polity) and analyze how the increasing use ofProject Title: Build a Basic Electronic Appliance• Economic Inequality Study1. Comparative and common(c) Interestincreasing use of1. Automatic Night• Calculate Gini
ACCOUNTANCYPSYCHOLOGYSOCIOLOGYELEC & HARDDATA SCIENCEOne specific project based on financial statement analysis of a company covering any two aspects from the following:1.Write in your words, what makes you different from your sibling in terms ofChoose a social institution (e.g., family, education, religion, economy, polity) and analyze how the increasing use ofProject Title: Build a Basic Electronic Appliance• Economic Inequality Study01. Write in your words, what makes you different from your sibling in terms of (a) Intelligence (b) Attitude• Choose a social institution (e.g., family, education, religion, economy, polity) and analyze how the increasing use of• Calculate Gini1. Comparative and common(c) Interestinterest1. Automatic Night• Calculate Gini
ACCOUNTANCYPSYCHOLOGYSOCIOLOGYELEC & HARDDATA SCIENCEOne specific project based on financial statement analysis of a company covering any two aspects from the following:1.Write in your words, what makes you different from your sibling in terms ofChoose a social institution (e.g., family, education, religion, economy, polity) and analyze how the increasing use ofProject Title: Build a Basic Electronic Appliance• Economic Inequality Study01. Write in your words, what makes you different from your sibling in terms of (b) Attitude0.111111111111111111111111111111111111
One specific project based on financial statement analysis of a company covering any two aspects from the following:1. Write in your words, what makes you different from your sibling in terms ofChoose a social institution (e.g., family, education, religion, economy, polity) and analyze how the increasing use ofProject Title: Build a Basic Electronic Appliance• Economic Inequality Study01. Write in your words, what makes you different from your sibling in terms of (a) Intelligence0• Economic Inequality study1. Comparative and common1. Mutomatic Night• Choose a social institution (e.g., family, education, religion, analyze how the increasing use of• Choose any one your country/state
financial statement analysis of a company covering any two aspects from the following:makes you different from your sibling in terms ofinstitution (e.g., family, education, religion, economy, polity) and analyze how the increasing use ofa Basic Electronic ApplianceStudy1. Comparative and common(a) Intelligence (b) Attitudeinstitution (e.g., family, education, religion, analyze how the increasing use ofa Basic Electronic ApplianceStudy1. Comparative and common(c) Interestinstitution (e.g., family, education, religion, economy, polity) and increasing use ofa Basic Electronic ApplianceStudy• Choose any one your country/state• Calculate Gini
company covering any two aspects from the following:sibling in terms of (a) Intelligence (b) Attitudeeducation, religion, economy, polity) and analyze how the increasing use ofAppliance Choose any one project:• Research income distribution data for your country/state1. Comparative and common(c) InterestInterest• Research income distribution data for increasing use of• Choose any one project:• Calculate Gini
aspects from the following:(a) Intelligenceeconomy, polity) and analyze how theChoose any one project:distribution data for your country/state1. Comparative and common(c) Interestincreasing use of1. Automatic Night• Calculate Gini
(b)Attitudeanalyze how theproject:your country/state1.Comparative and common(c)Interestincreasing use of1.Automatic Night• Calculate Gini
1. Comparative and common (c) Interest increasing use of 1. Automatic Night • Calculate Gini
size financial statements. And what makes you similar with technology (internet, Lamp using LDR coefficient using Excel
2. Accounting ratios. your sibling in terms of social media, digital 2. Water Level or Python
3. Cash flow statements. (d) Aptitude platforms) is leading to Indicator Apply probability
The following points must be kept both continuity and 3. Touch-Based distributions (normal
for consideration while preparing 2. Identify kind of delusion each change within that LED Light hinomial) to income
the project- of the following is? institution in the context 4. Simple Burglar
1. Front Page (a) A student who believes of Indian society, Alarm
2. Acknowledgement that he is going to be the next particularly in urban 5. Temperature frequency curves and
3. Certificate of supervisor President of India next year areas like Ghaziabad. Sensor with Lorenz curves
4. Company Profile (b) One who believes that Research a social Display (LM35 + Use regression analysis
5. History and Introduction intelligence agencies are movement in India Arduino)
6. Statement of Profit & Loss conspiring to trap her in a spy (historical or What to Submit:
A/C scandal contemporary) that • Circuit Diagram
7. Balance Sheet (c) One who believes that he aimed to bring about • List of Decent for the provide
8. Cash Flow Statement is the incarnation of God and change in a specific Components
9. Ratio Analysis with can make things happen social institution (e.g., Photos of the
interpretation of every ratio. (d) One who believes that the women's movement Working Model
10. Conclusions Tsunami occurred to prevent and changes in family
11. Bibliography her from enjoying her holidays law, the farmers' her from enjoying her holidays law, the farmers' her from enjoying her holidays law, the farmers'
Note- Please remember that every (e) One who believes that his movement and changes of the introduction • Analyze public health
student will work on separate actions are controlled by the in agricultural policies, dataset (COVID-19,
company. satellite through a chip movements for vaccination rates, etc.)
For financial statements financial implanted in his brain by some educational reform).
year 2024-25 is to be considered extra-terrestrial beings Task: Obtain detailed O Safety to calculate conditional
only. Precautions probabilities

3 Certain behaviours are	Ghaziabad (if available)	(Ontional): Short	• Use statistical software
someidered abnormal in general	and Litter Dradash	demo video (2, 3	(SDSS trial yangian an
but not under succifie		define video $(2-3)$	$(SPSS trial version of D) \subseteq 1$
but not under specific	Activity:	minutes)	R) for hypothesis testing
situations. Listed below are	Analyze current trends		• Create predictive
abnormal behaviours followed	in fertility, mortality,		models using multiple
by situations where the	and migration.		regression
behaviours might be	Research different		• Prepare a report
considered normal:	demographic projection		connecting findings to
(a) Talking to yourself	methodologies.		socioeconomic factors
(abnormal) – You are praying			Include confidence
(normal)			intervals in your
(b) Standing in the middle of			analysis
street and waving arms wildly			anarysis
(abnormal) – You are a traffic			
policeman (normal)			
Think about it and list at least			
three similar examples.			
4. Prepare a colourful mind map			
(or flash card) on Psychological			
Disorders.			
(a) Dissociative Disorders.			
Depressive			
(b) Bipolar Disorders			
(c) Schizophrenia Spectrum			
Disorders			
(d) Somatic Disorders			
(e) Eating-Substance Abuse			
Disorders			
(f) Anxiety Disorders			
(g) Neurodevelopmental			
Disorders			
(h) Disruptive-Impulse			
Control			
(i) Conduct Disorders			
5.Do a case study on any			
psychological construct			
(disorder or achievement) as			
discussed in class.			

	Note: Responses of first 3 points			
	are required in A4 sheets			
	attached in a punch file.			
APP. MATHS	DTI	LEGAL STUDIES	SCULPTURE	C.ART
Instructions-Student will choose any	PDF:-	Project Title:	Sculpture Holiday	Class 12 Commercial Art
one topic and Make a project.	https://cbseacademic.nic.in/web_	"India's Judiciary:	Homework	Portfolio – Holiday
Real-Life Applications	material/Manuals/DT_	Justice in Action – A		Homework
a) Budgeting and Finance	Curriculum12.pdf	Case Study-Based	1. Clay or Terracotta	Cover Page
• Use of percentages, interest		Research Project "	Sculpture	Title: "Creative Portfolio –
calculation (Simple and	TASK :- 5.0,5.1,5.2	Objective:	Task: Create a small	Class 12"
Compound Interest).	MAKE PPT AND FILE	To analyse real-life	clay sculpture based	Your Name, Class, Roll
• Example: Monthly budget		judicial cases in India	on one of the	Number Subject:
planning for a family.		and understand the	following themes:	Commercial Art
• b) Geometry in Architecture		structure, independence,	Folk Culture of India	School Name & Session (
• Use of geometric figures, angles,		and impartiality of the	Emotions (Joy,	2025–26)
symmetry.		<i>Indian judiciary</i> , as well	Anger, Sadness, etc.)	Page 1: Artist's
• Example: Designing a floor plan		as the <i>challenges it faces</i> .	Human Figurine in	Statement
using coordinate geometry.		Step-by-Step Plan:	Motion Materials:	A brief paragraph to
c) Probability in Weather		Step 1: Choose a	Clay/Terracotta, basic	introduce yourself as a
Forecasting		Landmark Case (Week	sculpting tools,	student-artist:
• Predicting weather based on		1)	water.	
statistical data.		Each student must pick	2. Recycled	"Visual storytelling excites
• Use of probability formulas and		one real-life case from	Sculpture Project	me. I love to use art to
expected outcomes.		Indian judicial history	Task: Use recycled	express thoughts about
Guidelines for Project		(post-2000 preferred),	materials (paper,	society and identity. This
Submission		such as:	plastic, wires, etc.) to	portfolio shows how I've
		 Vishaka vs. State of 	make a sculpture.	grown in commercial art
• Format: Handwritten or		Rajasthan (sexual	Theme Ideas:	mixing creativity with
typed report, 10–15 pages.		harassment laws)	Save Earth	purpose."
• Components:		 Triple Talaq case 	Urban Life	Page 2–7: Artworks (You
o Title Page		 Navtej Singh Johar vs. 	Dreamland	need at least 5–7)
o Table of Contents		Union of India (Section	Objective: Learn	Stick or sketch these
o Introduction		377)	sustainability through	artworks (each on a
o Objective		 Ayodhya Verdict 	art.	separate page):
o Methodology		 Sabarimala case 		Social Awareness Poster
o Data/Findings		• Any recent PIL (Public		Some ideas: Mental
o Analysis		Interest Litigation)		Health, Save Trees, Road
o Conclusion		Out-of-the-box tip:		Safety, Gender Equality.
o Bibliography		students can select		

• Presentation : Use of diagrams,	unconventional or	Product Advertisement
charts, and illustrations to	regional High Court	Design
enhance understanding.	<i>cases</i> too – this builds	Pick a product (real or
• Submission: Hard copy ONLY	inclusivity and diversity	made-up) and design an ad
	in legal awareness.	(include a catchy slogan &
	Step 2: Case Breakdown	layout).
	(Week 2)	
	Students should break the	Logo + Brand Identity
	case into the following:	Design a logo and 2–3
	• Facts of the Case	sample items (like a label,
	Legal Questions Raised	bag tag) for a brand you
	• Judiciary Involved	invent.
	(District Court/High	Magazine or Book Cover
	Court/Supreme Court)	Design
	• Timeline	Make an eye-catching
	• Arguments from both	cover with a title, picture,
	sides	and layout for a subject
	• Final Verdict	like fashion, nature, or sci-
	Creative angle: Should	fi.
	include visual formats	
	like flowcharts,	Materials Used Page
	timelines, or	
	infographics.	Write down tools such as:
	Step 3: Analyse the	D
	Judicial Role (Week	Poster paints, acrylics
	3)	coloured pencils, felt-tip
	Students should write	pens
	an analysis on:	Dointhrushas drowing
	• How the judiciary	compass straight adga
	maintained its	compass straight edge
	independence	
	• Interpretation of	
	constitutional	
	provisions	
	• Impact of the verdict on	
	society	
	• Whether justice was	
	truly served	

Skill-based idea:
Introduce a debate
element – "Was the
judgment progressive
or controversial?"
Step 4: Create a Legal
Awareness Pamphlet
(Week 4)
Each student must create
a <i>one-page pamphlet</i> or
<i>mini-booklet</i> that
explains the legal
principles of the case in
simple language for the
general public.
<i>Out-of-the-box tip:</i> Use
local languages or even a
comic-strip format to
explain the case. This
builds legal
communication skills.
Step 5: Reflection
Journal
Include 1 page on:
What did I learn about
the judiciary?
• How does this system
impact my life as a
citizen?
• If I were the judge,
would I have done
anything differently?
Critical Thinking Boost:
Ask students to write
from a judge's point of
view.
Final Submission
Format:

	 Front Page (Name, Roll Number, Project Title) Index Introduction (Judiciary in India) Case Study Legal Analysis Awareness Pamphlet (attached separately) Reflection Journal References 	
TAXATION	AI	POLITICAL SCHENCE & HISTORY
Students must make a practical file including one practical from the following list: Suggested list of Practical - 1. Contact to five persons and find out their investment which can qualify for deduction. 2.Contact to any three persons who are having taxable Income ad determine their taxable Income and compute estimate tax liabilities. 3. Visit any firm or company which are having 10 or more employees and identify how the provisions of TDS are applied to them	Python Programming Assignment: Working with Pandas Title: Exploring Data using Pandas Objective: To help students learn how to: • Create and manipulate Data Frames using Pandas • Perform data analysis operations • Generate simple data visualizations Instructions: 1.Complete the following tasks using Jupyter Notebook or any Python IDE. 2.Use the pandas and matplotlib libraries. 3.Add comments in your code to explain what each part does. Dataset: Use the following dictionary to create a DataFrame: import pandas as pd data = { "Name": ["Alice", "Bob", "Charlie", "David", "Eva"], "Age": [24, 27, 22, 32, 29], "Department": ["HR", "Finance", "IT", "Marketing", "Finance"], "Salary": [45000, 54000, 50000, 58000, 52000] } df = pd.DataFrame(data) Tasks: Task 1: Display the DataFrame • Print the entire DataFrame • Display the first 3 rows using head()	HISTORY - Prepare a Board Project File on given topics as per your name.Shonit- Mahatma GandhiPOL.SCI- Prepare a Board Project File on given topics as per your name.Angel- Environment and Natural ResourcesArunima- United Nation (International Organisation)Pari- Globalisition Shonit- Security in the Contemporary WorldIn both the subjects the followed:

• Display the last 2 rows using tail()	 Introduction/
Task 2: Data Information	Overview
• Display the column names	 Presentation
• Display the data types of each column	Conclusion
• Get summary statistics using describe()	 Bibliography
• Find out the number of non-null entries in each column using info()	• Viva Questions and
Task 3: Data Selection and Filtering	Answers
• Select only the "Name" and "Salary" columns	• Presentation : Use of
• Filter and display employees with salary greater than 50000	diagrams, charts, and
• Display the details of employees from the "Finance" department	illustrations to
Task 4: Adding and Modifying Data	enhance
• Add a new column called Bonus with values [2000, 2500, 2200, 2700,	understanding.
2600]	• Submission: Hard
• Create a new column Total Compensation = Salary + Bonus	copy ONLY .
Task 5: Sorting and Grouping	
• Sort the data by Age in descending order	
• Group the data by Department and find the average salary per department	
Task 6: Basic Visualization (Optional but recommended)	
• Create a bar chart showing names vs. salaries using matplotlib	
• Create a pie chart showing department-wise distribution	
Objective:	
Understand and apply techniques to detect, handle, and manage missing data using	
the Pandas library in Python.	
Instructions:	
1.Use the provided dataset (or generate your own if none is provided).	
2.Complete all the tasks below.	
3. Submit your .py file or Jupyter Notebook with your code and outputs.	
Dataset Sample (Create a CSV or use inline code):	
import pandas as po	
# Creating a sample DateFrame	
# Creating a sample Data rame	
'Name': ['Alice' 'Bob' 'Charlie' 'David' nn nan]	
'Age': [25, np.nan, 30, 22, 29].	
'Gender': ['F'. 'M'. np.nan. 'M'. 'F'].	
'Salary': [50000, 60000, np.nan, 52000, 58000]	
}	
df = pd.DataFrame(data)	

	df.to csv("employees.csv", index=False)	
	Tasks:	
	Task 1: Load the Data	
	• Load the employees.csv dataset into a Pandas DataFrame.	
	Task 2: Identify Missing Values	
	• Print the number of missing values in each column.	
	• Use isnull(), sum(), and info().	
	Task 3: Handle Missing Values (Different Methods)	
	1. Drop rows with any missing values and show the new DataFrame.	
	2.Fill missing values:	
	a.Fill Age with the mean age .	
	b.Fill Salary with the median salary.	
	c.Fill Gender with the mode .	
	d.Fill Name with 'Unknown'.	
	Task 4: Advanced Imputation	
	• Use fillna(method='ffill') and bfill on a copy of the original dataset.	
	• Discuss which method seems most appropriate for each column and why.	
	Take printouts of these programs with outputs.	
CLUB	SKILL ·	
MOVIE MAKING:		
CHOOSE A TOPIC	EMBROIDERY: Choose one of these beginner-friendly projects:	
The Case of the Missing Homework	Emproidered bookmark	
The Value of Empathy	Decerated pillow case odde	
	Simple initial monogram	
A Dream Come True		
The Unexpected Guest		
SCRIPT WRITING		
Write a script of choosen topic		
create characters make dialogues		
freate characters, make thatogues		
ARRANGEMENT		
Arrange all the require things to		

your story . every scene need to be properly explained **KEY POINTS TO REMEMBER** WHILE FILMING Shutter speed ٠ Iso ٠ Aparture ٠ White balance ٠ Camera angles ٠ It should be silence while ٠ taking shot • Video length must be 2:30 to 3 minutes While shooting every scene you must be aware about these key points to gain quality of your film **MECHATRONICS: Project Title: Design and** Fabrication of Half-Wave and **Full-Wave Rectifiers 邑** Objective: To understand the working of rectifiers by designing, assembling, and testing both Half-Wave and **Full-Wave Rectifier Circuits** using: • A Step-Down Transformer • **Diodes** (as rectifying elements) • A Capacitor Filter

• A s	mall DC Load (e.	g.,
LEI	D)	0.,
Project R	equirements:	
Students w	vill:	
Design an	nd assemble both r	ectifier
circuits on	a PCB or breadb	oard
Use a ster	n-down transform	our u 1er
(e σ 230V	to 12V or 6V)	
Use IN40	07 or similar diod	66
	acitor filter (e g	
1000µF 25	SV to smooth the SV	DC
	y j to smooth the	DC
Demonstr	ate output by now	ering a
small devic	ce or LED	ering a
Drepare a 1	neat circuit diagra	am for
both rectifi	lers	am 101
Verify and	record output vol	tage
vering a mu	ltimatar	lage
using a mu	IIIIIICICI	
Compono	nte Poquirod	
(Suggested	ants Nequireu	
Compone	1). nt Spacification A	uantity
	it specification Q	uantity
Step-down Transform	er 230V to 12V 1	
Diadaa	IN4007 or	
Diodes	1N5408 4	
	1000µF /	
Capacitor	25V (or 1	
	similar)	
Resistor	470Ω or as	
(Optional)	needed	
TEE	Standard	

PCB or	1
Breadboard	-
Wires,	As
Soldering -	needed
Kit	needed
Guidelines:	
• Ensure neat and s	afe
soldering on PCE	J.
• Take necessary p	recautions
while working w	ith AC
current	
• You must work in	ıdividually
(or in teams of 2,	if allowed)
• Prepare a short w	rite-up (1
page) on:	
Working prin	ciple of
rectifiers	-
Differences b	etween
Half-Wave & Ful	1-Wave
Role of capa	ritor in
filtering	
	taga
readings and circ	lit behavior
Documentation (To Be	
Submitted):	
Photos of your w	orking
circuit	JIKING
Hand drawn or set	ftware
• Halld-ulawil of So	diagrams
Boodings (with m	ulagianis
• Readings (with if	ultimeter
snapsnots 11 poss	ule)

• Final summary of the	
working model and learning	
working moder and rearning	
Bonus Marks (Optional):	
Earn extra points for:	
Creative PCB layout	
Neat soldering and finishing	
Explaining the project in a short	
video (2–3 mins)	
Learning Outcome:	
By completing this project, students	
will:	
• Understand real-world	
application of power	
electronics	
• Gain hands-on experience in	
soldering, PCB assembly.	
and circuit testing	
• Learn how rectification and	
filtering convert AC to DC	
intering convertier to De	