Ajeenkya DY Patil School of Engineering, Lohegaon, Pune.

Project Based Learning

A Workbook

Workbook No: WB/ 2019 /2.1.1

Vision

Empowerment through quality technical education

Mission

M1: To achieve excellence in teaching, learning and research

M2: To impart skill based education to meet the needs of industry and Society

M3: To excel as a center of excellence in technical education

M4: To inculcate social & ethical values among the students

Quality Policy

We strive to impart the quality technical education through academic excellence and provide best of facilities to satisfy the need & expectations of the students & stakeholders.

Project Based Learning (PBL)

WORKBOOK

Department of .... Engineering
Academic Year:

Project Based Learning (PBL)

Workbook

PBL Details

Title of the Project:-

Name of the Mentor:-

Name of the Group:-

Group Members:-

1. ....
2. ....
3. ....
4. ....
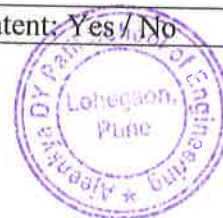
Group Student Information

Name of Student 1:

Family Background (Write in Detail Occupation of Family Members)	Mother – Father – Brother – Sister – Grandmother – Grandfather -
Native Place:	Famous Thing/Products at the Native Place:
Hobbies:	Food/Food Dish You Love:
Do You Like Travelling: Yes / No	Recent Visited Place:
Tick Mark the Areas You are Interest in	(1). Nano-technology (2). Fin-tech (3). Biotechnology (4). Bio-medical science (5). Agriculture (6). Manufacturing (7). Healthcare (8). Construction (9). Services (10). Others if any ....
Tick Mark the Technologies You Like	(1). AI (2). Blockchain (3). Cloud Computing (4). Angular and React (5). DevOps (6). IoT (7). Big Data (8). Augmented Reality and Virtual Reality (9). Intelligent Apps (I – Apps) (10). Cyber Security (11). RPA (Robotic Process Automation)
List 3 problems you faced or identified in the last month	1. 2. 3.
Do You Want to Start Your Own Business? Yes / No	Interested in filing patent: Yes / No

Group Student Information

Name of Student 2:

Family Background (Write in Detail Occupation of Family Members)	Mother – Father – Brother – Sister – Grandmother – Grandfather -
Native Place:	Famous Thing/Products at the Native Place:
Hobbies:	Food/Food Dish You Love:
Do You Like Travelling: Yes / No	Recent Visited Place:
Tick Mark the Areas You are Interest in	(1). Nano-technology (2). Fin-tech (3). Biotechnology (4). Bio-medical science (5). Agriculture (6). Manufacturing (7). Healthcare (8). Construction (9). Services (10). Others if any ....
Tick Mark the Technologies You Like	(1). AI (2). Blockchain (3). Cloud Computing (4). Angular and React (5). DevOps (6). IoT (7). Big Data (8). Augmented Reality and Virtual Reality (9). Intelligent Apps (I – Apps) (10). Cyber Security (11). RPA (Robotic Process Automation)
List 3 problems you faced or identified in the last month	1. 2. 3.
Do You Want to Start Your Own Business? Yes / No	Interested in filing patent: Yes / No

Group Student Information
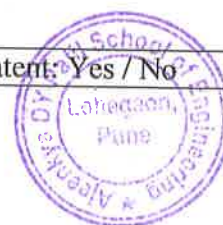
Name of Student 3:

Family Background (Write in Detail Occupation of Family Members)	Mother – Father – Brother – Sister – Grandmother – Grandfather -
Native Place:	Famous Thing/Products at the Native Place:
Hobbies:	Food/Food Dish You Love:
Do You Like Travelling: Yes / No	Recent Visited Place:
Tick Mark the Areas You are Interest in	(1). Nano-technology (2). Fin-tech (3). Biotechnology (4). Bio-medical science (5). Agriculture (6). Manufacturing (7). Healthcare (8). Construction (9). Services (10). Others if any ....
Tick Mark the Technologies You Like	(1). AI (2). Blockchain (3). Cloud Computing (4). Angular and React (5). DevOps (6). IoT (7). Big Data (8). Augmented Reality and Virtual Reality (9). Intelligent Apps (I – Apps) (10). Cyber Security (11). RPA (Robotic Process Automation)
List 3 problems you faced or identified in the last month	1. 2. 3.
Do You Want to Start Your Own Business? Yes / No	Interested in filing patent: Yes / No

Group Student Information

Name of Student 4:

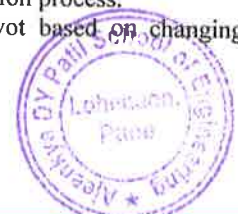| Family Background (Write in Detail Occupation of Family Members)	Mother – Father – Brother – Sister – Grandmother – Grandfather -
Native Place:	Famous Thing/Products at the Native Place:
Hobbies:	Food/Food Dish You Love:
Do You Like Travelling: Yes / No	Recent Visited Place:
Tick Mark the Areas You are Interest in	(1). Nano-technology (2). Fin-tech (3). Biotechnology (4). Bio-medical science (5). Agriculture (6). Manufacturing (7). Healthcare (8). Construction (9). Services (10). Others if any ....
Tick Mark the Technologies You Like	(1). AI (2). Blockchain (3). Cloud Computing (4). Angular and React (5). DevOps (6). IoT (7). Big Data (8). Augmented Reality and Virtual Reality (9). Intelligent Apps (I – Apps) (10). Cyber Security (11). RPA (Robotic Process Automation)
List 3 problems you faced or identified in the last month	1. 2. 3.
Do You Want to Start Your Own Business? Yes / No	Interested in filing patent: Yes / No

Idea Generation

Sr	Problem Identified	Possible Solution	Date
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Idea Evaluation

When evaluating ideas, it's important to consider various factors to determine their feasibility, potential impact, and alignment with your goals. Here is a list of criteria you can use to evaluate ideas:

1. Relevance: How well does the idea address the problem or challenge at hand? Is it relevant to your objectives or the needs of your target audience?
2. Feasibility: Assess the practicality and achievability of the idea. Consider the available resources, skills, technology, and time required to implement it.
3. Innovation: Does the idea introduce a new approach or perspective? Does it offer a unique solution that differentiates it from existing alternatives?
4. Scalability: Can the idea be scaled up or expanded to accommodate growth or increased demand? Consider if it has the potential to be replicated or applied in different contexts.
5. Impact: Evaluate the potential positive outcomes and benefits of the idea. Will it solve a problem, create value, or improve existing processes?
6. Cost-effectiveness: Analyze the costs associated with implementing the idea compared to the potential benefits or returns. Consider both monetary and non-monetary factors.
7. Risk assessment: Identify the potential risks and challenges associated with the idea. Assess the probability and potential impact of these risks on the success of the idea.
8. Sustainability: Consider the long-term viability and sustainability of the idea. Will it remain relevant and effective over time? Are there any potential negative environmental or social impacts?
9. Market demand: Evaluate the market potential and demand for the idea. Is there a target audience or market that would be interested in the solution? Conduct market research if necessary.
10. Stakeholder input: Seek feedback and input from relevant stakeholders, such as team members, customers, or experts. Consider their perspectives and incorporate their insights into the evaluation process.
11. Flexibility and adaptability: Assess the idea's potential to evolve, adapt, or pivot based on changing circumstances, market conditions, or user feedback.

Finalize the Idea

Name of the Finalized Idea:- ....

Draw a Sketch/Layout of the Product/Service

Abstract of the Problem

Parts of the Products / Modules of Application to be Developed

Cost Estimates

Plan of Action

Sr	Work to be done	Timeline
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

Work Progress

Work Done: - ….. Week   Date: ….. /…… / 202..

Sign of the Mentor

Work Progress

Work Done: - ….. Week

Date: ….. /…… / 202..

Sign of the Mentor

Work Progress

Work Done: - ….. Week

Date: ….. /…… / 202..

Sign of the Mentor

Work Progress

Work Done: - ….. Week   **Date: ….. /…… / 202..**

Sign of the Mentor

Work Progress

Work Done: - ….. Week   **Date: ….. /…… / 202..**

Sign of the Mentor

Project Triumph: Overcoming Challenges

Sr.	Challenges faced	Decision/Strategy taken
1		
2		
3		
4		
5		
6		
7		
8		

Sign of the Mentor

Exhibition Photos

Sign of the Mentor

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