ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(A Unit of Alva's Education Foundation)
Shobhavana Campus, Mijar--574227, Moodbidri , D.K
Phone : 08258-262725 Fax: 08258-262726

863

(Accredited by NAAC with A+ Grade)
(Affiliated to VTU Belagavi, Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka)

ASSIGNMENT BOOK

Branch : Artificial Intelligence and Machine learning

Assignment Number	Date of Submission	Maximum Marks / Marks Obtained	10	Signature of the Student with Date	Signature of the Teacher with Date
1	20/11/2023	12	12	20/11/2023	5/12
2	30/12/2023	12	12	1/12/2023	5/12
3					
4					
5					
Total Marks		24	24		
Average Assignment Marks		10			
Marks in words		Ten.			

Name :Bhoomika

USN :4AL20AI009

Sem. & Section :VII

Course Name / Code :Computer Vision (18AI742)

Submitted to Prof :Shrikanth NG

Internal Assessment Marks
10
Max Marks
10

Signature of Faculty

VISION OF THE INSTITUTE

Transformative education by pursuing excellence in Engineering and Mangement through enhancing skills to meet the evolving needs of the community

MISSION OF THE INSTITUTE

* To bestow quality technical education to imbide knowledge creativity and ethos to students community
* To inculcate the best engineering practices through transformative education
* To develop a knowledgeable individual for a dynamic industrial scenario
* To inculcate research entrepreneurial skills and human values in order to cater the needs of the society

VISION OF THE DEPARTMENT

To be competent professionals by instilling knowledge and skills in the Artificial Intelligence and machine learning realm to cater needs to industry and community.

MISSION OF THE DEPARTMENT

- To Strengthen the assimilation process of Concepts in A.I & ML through experiential learning
- To Create a better Academia - Industry liaison by means of skills enhanced training
- To develop a Support System for research and development for broader application in AI & ML domain
- To promote Entrepreneurial culture through interaction with Collaborative knowledge partners

PROGRAM OUTCOMES (POs)

PO1	**Engineering Knowledge** : Apply the knowledge of mathematics, science, Engineering fundamentals and an engineering specialization to the solution of complex engineering problems
PO2	**Problem analysis** : Identify formulate review research literature and analize complex engineering problems reaching substantiated conclusion using first principles of mathematics natural sciences and engineering sciences
PO3	**Design / development of solutions** : Design solution for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural societal and environmental considerations
PO4	**Conduct investigations of complex problems** : Use research based knowledge and research methods including design of experiments alalysis and interpretation of data and synthesis of the information to provide valid conclusions
PO5	**Modern tool usage** : Create select and apply appropriate techniques resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations
PO6	**The engineer and society** : Apply reasoning informed by the contextual knowledge to assess societal health safety legal and cultural issues and the consequent responsibilities relevent to the professional engineering practice
PO7	**Environment and sustainability** : Understand the impact of the professionals engineering solution in scoietal and environmental contexts and demonstrate the knowledge of and need for sustainable development
PO8	**Ethics** : Apply ethical principles and commit to professionals ethics and responsibilities and norms of the engineering prctice
PO9	**Individual and team work** : Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings
PO10	**Communication** : communicate effectively on complex engineering activities with the engineering community and with society at large such as being able to comprehend and write effective reports and design documentation make effective presentations and give and receive clear instructions
PO11	**Project management and finance** : Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work as a member and leader in a team to manage projects and in multidisciplinary enviroments
PO12	**Life long learning** : Recognize the need for and have the preparation and ability to engage in independent and life long learning in the broadest context of technological change

PROGRAM SPECIFIC OUTCOMES (PSOS)

PSO1	Understand analyse and demonstrate the knowledge of human cognition, AI&ML in terms of real-world problems to meet the challenges of the future
PSO2	Incorporate AI & ML techniques for industrial application in the area of autonomous system, IoT, cloud computing, Robotics, natural language processing
PSO3	Develop computational knowledge and project development skill using innovative technique to solve the problems
PSO4	Provide solution to complex using the fastest hardware and software tools along analytical skills to arrive at cost effective and appropriate

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO1	Expand knowledge in the field of AI & ML
PEO2	Develop a continuous learning attitude ethics and values
PEO3	Self educate and expand to the innovation entrepreneurship dimension
PEO4	Provide solution for technical and social problems through research and innovation

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ASSIGNMENT BOOK

Branch : MBA

Assignment Number	Date of Submission	Maximum Marks / Marks Obtained		Signature of the Student with Date	Signature of the Teacher with Date
		Maximum Marks	10		
1	13-05-2024	10		Koushal 13-5-24	CN
2	28-05-2024	10		Koushal 28-5-24	CN
3					
4					
5					
Total Marks		20			
Average Assignment Marks		10			
Marks in words		Ten only			

Name : KOUSHAL RAO TJ

USN : 4AL23BA068

Sem. & Section : 1st SEM - A SECTION

Course Name / Code : ACCOUNTING FOR MANAGERS

Submitted to Prof : DR. CATHERINE NIRMALA DAVID

Internal Assessment Marks: 10
Max Marks: 10

CN

Signature of Faculty

VISION OF THE INSTITUTE

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MISSION OF THE INSTITUTE

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* To inculcate the best engineering practices through transformative education
* To develop a knowledgeable individual for a dynamic industrial scenario
* To inculcate research entrepreneurial skills and human values in order to cater the needs of the society

VISION OF THE DEPARTMENT

To Develop Competent and ethical managers and entreprecur, Sensitive to the environment and culture, responsible to their communities and global in their outlook and abbroach

MISSION OF THE DEPARTMENT

M1:- To provide Students with necessary knowledge and Skills to enable them to be effective in the field of their Specialization.
M2:- To foster curiosity, broden their horizons and inculcate leadership skills to achieve academic rigour, highly grounded in the real world Job market.
M3:- To adopt Systems thinking abbroach to learning to help Students excel in a complex & even changing global environment.
M4:- To Develop in them a strong commitment to embrance cross cultural diversity & an entrebreneurial mindset.

Assignment - 1

Hindustan Aeronautics Limited

Balancesheet of Hindustan Aeronautics limited as on 31st March 2023

Particulars	Amt (₹)
I. Equities And Liabilities	
Share holder's funds	
Equity Share Capital	334 39
Total Share Capital	334 39
Reserves and Surplus	23,171 78
Total Reserves And Surplus	23,171 78
Total Shareholders funds	23,506.17
Non-current liabilities	
Long-term Borrowings	0.00
Deferred Tax Liabilities [Net]	0.00
Other Long-term Liabilities	11,852 85
Long-term Provisions	1,339 94
Total Non-current Liabilities	12,786.79
Current liabilities	
Short-term Borrowings	0.00

Trade Payables	3,137.34
Other current liabilities	20,911.43
Short term Provisions	6,776.65
Total current Liabilities	30,825.42
Total Liabilities	67,117.38

II. Assets

Non current assets	
Tangible assets	5,791.56
Intangible assets	1,035.74
Capital work-in-progress	635.81
Other assets	0.03
Fixed assets	8711.94
Non current Investments	1,385.39
Deferred Tax assets [Net]	1,125.71
Long term loans and advances	6.21
Other Non-current assets	4,002.52
Total Non-current assets	15,231.07
Current assets	
Current Investments	0.00
Inventories	12,160.67
Trade Receivables	4,719.07
Cash and cash Equivalents	20,306.15
Short term loans and advances	7.62
Other current assets	1469.80
Total current assets	51,886.31
Total assets	67,117.38

Financial Ratios of Hindustan Aeronautics limited
31st March 2023.

Particulars	Amt (₹)
Per Share Ratios	
Basic EPS	173.79
Diluted EPS	173.79
Cash EPS	227.13
Book value / share	702.96
Dividend / share	55.00
Revenue from operations / share	805.28
PBDIT / share	249.95
PBIT / share	195.90
PBT / share	194.17
Net profit / share	173.78
Profitability Ratios	
PBDIT margin (%)	30.95
PBIT margin (%)	24.32
PBT margin (%)	24.11
Net Profit margin (%)	21.58
Return on Networth / Equity (%)	24.72
Return on Capital Employed (%)	18.05
Return on Assets (%)	8.65
Total Debt / Equity (x)	0.00
Asset Turnover Ratio (%)	0.43

Liquidity Ratios	
Current Ratio (x)	1.68
Quick Ratio (x)	1.29
Inventory Turnover Ratio (x)	0.75
Dividend Payout Ratio (NIP) (%)	28.77
Dividend Payout Ratio (CP) (%)	22.01
Earnings Retention Ratio (%)	71.23
Cash Earnings Retention Ratio (%)	77.99
Valuation Ratios	
Enterprise Value (Cr.)	₹10,990.68
EV / Net Operating Revenue (x)	2.64
EV / EBITDA (x)	8.52
Market Cap / Net Operating Revenue (x)	3.39
Retention Ratios (%)	₹1.22
Price / BV (x)	3.88
Price / Net Operating Revenue	3.39
Earnings yield	0.06.

PROGRAM OUTCOMES (POs)

PO1	**Engineering Knowledge** Apply the knowledge of mathematics, science, Engineering fundamentals and an engineering specialization to the solution of complex engineering problems
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PO12	**Life long learning** : Recognize the need for and have the preparation and ability to engage in independent and life long learning in the broadest context of technological change

PROGRAM SPECIFIC OUTCOMES (PSOS)

PSO1	Graduates will be able to understand, analyze & work with numerical and qualitative data & provide desired solution to stakeholders /
PSO2	Graduates will be able to use technology with ease in their specific domain of excise
PSO3	Graduates will be endowed with life-long learning skills, critical thinking skills & research outlook
PSO4	Develop Graduates for Corporate jobs with Global outlook.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO1	Develop mgt Graduates with theoritical knowledge, Skills & attitude to be effective
PEO2	Transform Graduates for leadership & mgt roles in corporate world & for starting enterprise
PEO3	Equip Graduates with systems & design thinking approach to survive & excel in a complex & ever changing global environment
PEO4	Enable a strong commitment to embrace cross cultural diversity & entrepreneurial mindset

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ASSIGNMENT BOOK

Branch : computer science And engineering.

Assignment Number	Date of Submission	Maximum Marks: 10 / Marks Obtained	Signature of the Student with Date	Signature of the Teacher with Date
1	10/10/23	10	10/10/23	10/10
2	28/11/23	10	28/11/23	28/11
3	12/11/23	10	12/11/23	12/12
4				
5				
Total Marks		30		
Average Assignment Marks		10		
Marks in words		Ten		

Name :Tejashwini .G. Jampanavar

USN :4AL20CS161

Sem. & Section :VIIth – C

Course Name / Code :Industrial safety -18ME753

Submitted to Prof :Prof. Kiran. C.H

Internal Assessment Marks: 10 / Max Marks: 10

12/12

Signature of Faculty

VISION OF THE INSTITUTE

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* To develop a knowledgeable individual for a dynamic industrial scenario
* To inculcate research entrepreneurial skills and human values in order to cater the needs of the society

VISION OF THE DEPARTMENT

"engendering competent, excellent professionals by transforming to knowledge and computing skills to individuals through modern innovative tools and techniques"

MISSION OF THE DEPARTMENT

M1: To produce skilled, creative software developers through rigorous training.

M2: To conduct specific technical courses to keep abreast to the latest technological developments and transformation for the domain.

M3: To implement the ideas of research and innovations to interdisciplinary domains.

M4: To establish industry institute interaction programs to enhance the skills of employment and entrepreneurship.

Assignment 1. 008

1. write a short note on tragedy or accident caused in Bhopal, India due to human intervention or negligency

→ Introduction : The bhopal gas leak is the world's environment disaster in our history. The desaster occured on 12 Dec 1984 at union carbide india limited, a pesticide manufacturing factory in Bhopal India. This was caused due to leakage of Methyl Isocyanide gas and other lethal gases from the plant It was 15 metric to MIC and spread throught Bhopal city. this leak killed at least 4000 people and 15000 people dead over last 2 decade and many people suffered from the effect with the people dying every year. two covered out by kell in 1989 should that for and water in Bhopal neighbourhood were poised to fish and aquatic life also. In 1994 studied that 21% of water prevents were lightly consumed with toxic chemical and 2000 animals both wild and the domestic found etc.

Causes of disaster :

The gas leak is said to leave began when water entered the toxic that contained in the tank of MIC this leed to an exothermic reaction that is Green temperature towards tank more than 200°c this caused tank to vent and release poisounous gases into atmosphere.

According to UCIL they stocked their large amount of water could only enter the tank through sabotage by an employee. Some body intentionally put water inside the tank leading to reaction through indian government accused union carbide to concern or control a disaster.

Most of Bhopal residents when this accused they were asleep and many woke up when they heared children coughing from fumes as resident were up, they felt a burning sensation at the throat while some choked from the smoke many people were unconsious and were trampled upon. effects on the environment.

During the leak gas escaped into the air and spreading over 30 square mile area. the plant was closed between 1984 and 1986. during which most of pipes and drums were sold off. However most of isolated tanks were still there which also contains various residence and this have more out and produced materials is falling out and these effected the plant. and also the water system.

The isolated material contains several heavy toxic elements include napthol, nickel, lead, mercury and other hydrocarbon such as chlorobenzene which mainly cause nervous system breakdown, hence kidney infraction even this affected the water and soil.

Today, the location is still polluted with some of poisonous material BBC reversed that some wells in areal are nearly 500 times the recommended limit of the pollutant, however local use their limit as they have no choice. precaution.

The company could have installed an safety system that could either prevent or contain the disaster proper training for this employee also proper look up against the employee. Some sensor which detect the unusual happening.

Unsafe Act and unsafe condition

Unsafe Act :

Unsafe acts are any actions or behaviours that put over others at risk of harm. those count include using tools. failing to wear proper personal protective equipment (PPE). working without proper authorization or simply being careless or distracted on the job.

ex: Not wearing PPE kit, NO enough knowledge about the tools n machinery.

Unsafe condition

Unsafe condition are any factors in the workplace that increases the risk of accidents. injuries. they could include poor lighting slippery floor or faculty equipment.

ex: exposed to electrical wires.

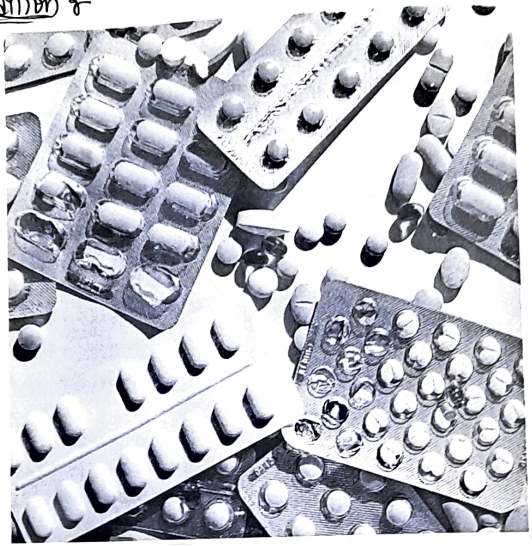
- ~~Blocked emergency exit.~~
- ~~obstacle in the pathway~~
- ~~exposed gases.~~
- ~~NO usage of firealarms n emergency medical kit.~~

- Unsafe act :

The person in the above picture is bending half of his body on the stair railing in order to see something which is dangerous. As his bodyweight is only balanced by one of his legs.

Leads to : fall from certain height and bone fracture

- Unsafe condition of



✓ In the above figure All the prescribed medicine is away from the package.

✓ Its a life harming Act in which if a patient consumes this air exposed medicines may lead to certain side effects like brain haemorrage, swelling of organs (like face) and sometimes serere headache.

✓ If the tablets are separated from package we cannot track the date of manufactured, dosage, usage, key ingredients, direction of usage and expiry. which is unsafe.

- Unsafe condition

✓ The beside picture shows the broken seat which is separated from the metallic stool.

✓ Sometimes the seat may fall and cause any injury. Or person may fall.

✓ Keeping this damaged furniture may leads to accident.

Assignment -2

write the following precautionary safety measures for the mechanical equipment.

1. Lathe Machine
2. Operating and grounding machine
3. Melting machine
4. Shaping machine
5. power hack saw machine
6. welding machine.

① Lathe Machine:-

- eye protection :- Always wear safety glasses or goggles to protect your eyes from flying chips and debris.
- secure work piece :- Ensure the workpiece is firmly secured in the chuck or between centres to prevent it from spinning out during operation.
- proper clothing :- Avoid loose clothing or jewelery that could get caught in the lathe's rotating parts. Tie back long hair to prevent entanglement.
- sharp cutting tool :- Use a sharp and appropriate cutting tool for the material being machined. A dull tool can lead to increased force and potential accidents.

- Avoid direct contact :- Never touch the rotating workpiece or tool while the machine is running. Use proper handling technique and avoid reaching over the machine.
- Stop before Adjustments :- before making any adjustments to the Lathe. Stop the machine completely this eliminates the risk of accidental contact or entanglement.
- chip Removal :- Use a brush or compressed air to remove chips from the machine regularly to prevent build up and potential hazards.

② Grinding Machine

- Respiratory protection :- wear a respirator to protect yourself from airborne dust and particles generated during grinding operations.
- eye protection :-
- Grinding wheel Guard :- Ensure a proper grinding wheel guard is in place to protect you from projectile debris.
- wheel dress and Balance :- Regularly dress and balance the grinding wheel to ensure smooth operation

And prevent vibration related hazards.

- Avoid excessive force: Avoid applying excessive pressure on the workpiece while grinding. Overheating and kickback can occur due to excessive force.
- Stop before Adjustments: Before making any adjustments to the lathe, stop the machine completely. This eliminates the risk of accidental contact or entanglement.

③ Melting machine:

- Protective Gear: wear safety glasses, gloves and a long apron to protect yourself from splashes of molten metal and heat exposure.
- Secure clothing: Avoid loose clothing or jewellery that could ignite or get caught on the machine. Tie back long hair to prevent entanglement.
- Long-handled Ladle: Use a long-handled ladle to safely transfer molten metal from the pot, minimizing the risk of burns and splashes.
- Avoid wet surfaces: Never pour molten metal onto a wet surface, as it can cause violent explosions and burns.

- Cooling time: Allow molten metal to cool completely before handling it to prevent burns and injuries.

④ Shaping machine:

- Eye protection: wear safety glasses or a face shield to protect your eyes from flying chips and debris generated during shaping.
- Secure workpiece:
- Proper cutting tool: Use a sharp and appropriate cutting tool for the material being shaped. A dull tool can lead to increased force and potential accident.
- Avoid direct contact: Never touch the moving ram or workpiece while the shaping machine is operating. Maintain a safe distance and use proper handling techniques.
- Stop before Adjustments: Before making any adjustments to the shaping machine, stop the machine completely and ensure all moving parts have stopped.

⑤ Power hacksaw machine:

- Proper blade selection: Use a sharp and appropriate blade for the material being cut. A dull blade can lead t

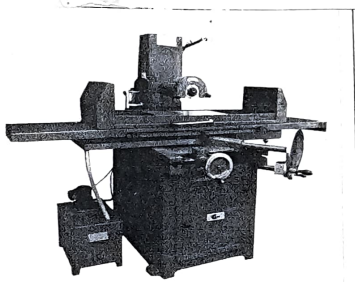
increased force and potential Accidents.

- Controlled feeding :- Avoid forcing the workpiece into the blade. Allow the blade to do the cutting and maintain a steady feeding rate.
- Stop before Adjustments.
- eye protection
- Secure workpiece.

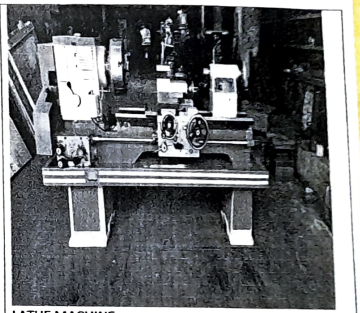
(6) welding machine :-

- eye and face protection :- wear a welding helmet with a suitable shade filter to protect your eyes and face from the intense arc flash and harmful radiation.
- protective clothing :- wear protective gloves and appropriate clothing to shield your body from heat, sparks and spurge generated during welding.
- Grounding connection :- ensure proper grounding of the welding machine to prevent electrical hazards and ensure efficient arc transfer.
- Stop before Adjustments

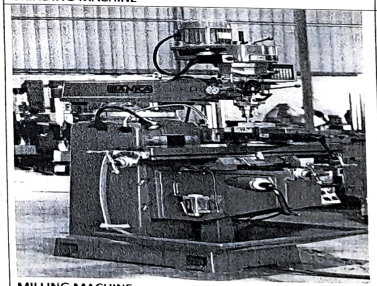
- Avoid direct contact :- Never touch the welding electrode or workpiece with your bare hands. Use appropriate tools and techniques to handle hot materials.



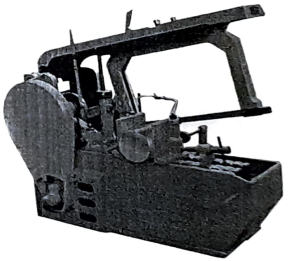
GRINDING MACHINE



LATHE MACHINE

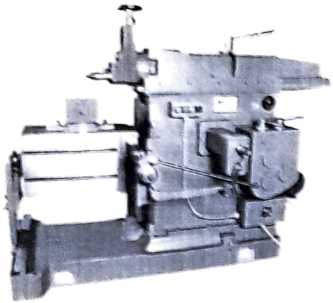


MILLING MACHINE

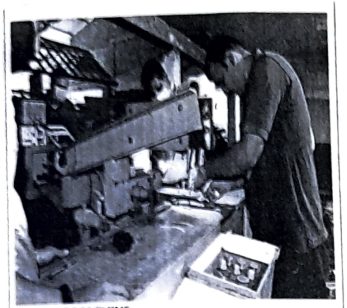


POWER HACK SAW

26/11



SHAPING MACHINE



WELDING MACHINE

① Case study on electrical safety and prevention.

This case study delivers into the challenges posted by dispersed electrical wires on a floor particularly those connected to a single switch. The focus is on identifying potential hazard implementing precautionary measure and preserving a safe environment.

*Identifying hazards

1) Tripping hazards

Acess the layout to identify areas prone to tripping over dispersed wires.

- Install label organness on floor cable to manage and secure wire.

2) Overloaded switches

- Evaluator the load on the switch to prevent overloading.

- label circuits and ensure godliness or permissible connection

3) wire insulation:-
- Regular input wire insulation to wear and tear.
- implement a prevention maintenance schedule for wire

4) fire hazards
- Identify potential fire hazard from expect (or) damaged circuit
- Install time-resistant maintenance or conducted to contain and protect the wiring.

★. preliminary measures:-

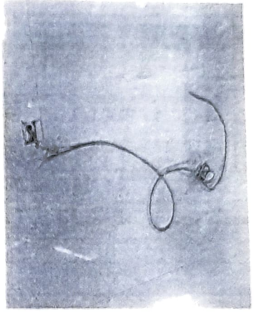
1. label management:-
- Implement a comprehensive label management system to organise and secure wires
- educate employee on the importance of maintaining organised workspace

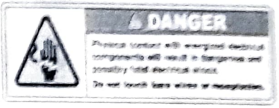
2. load balancing:-
- ensure a balanced load distributions across switches and circuits

3. Regular inspections:-
Conduct routine inspections of inspected wires and connection

4) emergency response plan
develop a clear emergency response plan to electrical incidents.

warning signs:-





case study:-

During a routine inspection, maintenance staff member identifies a cluster of overloaded wires connected to a switch.

The immediate action involves redistributing the load. labelling the circuit and setting guidelines to prevent future overloads

By promptly addressing the identified hazard the risk of electrical incidents such as tapping overloads is mitigated

this proposed approach enhances overall safety on the floor.

(8) (2) case study on chemical safety and prevention.

The college laboratory setting, a chemical safety incident occured during a routine experiment including the handling and mixing of various chemical the incident highlights the importance of proper precautions and safety measures in the laboratory environment.

★. hazard :-

1) chemical exposure :-
The improper handling of chemicals led to accedentaus posing risk such as skin irritation, respiratory problems and potential long-term health effects.

2) chemical incompatability :-
chemical incompatible chemical resulting in a chemical reaction leading to the release of toxic fumes. and the generation of heat, increasing the risk of fire or explosion.

precautionary measures :-

1) Risk Assessments :-
- chemical compatibility checks :- conduct through assessments to ensure compatibility between various different chemical for experiments.
- material safety data sheets :- provide and review MSDS for all chemical used in the lab to understand potential hazard and safe handling procedure.

2) personal protective equipment :- [PPE]
1) mandatory PPE :- enforce the use of appropriate PPE, use of appropriate PPE, including gloves. safety goggles and lab coat to minimize direct contact with chemicals

3) proper utilization :-
utilize fumal hoods when working with volatile or hazardous chemicals to ensure proper utilization and preset the build up of chemical fumes in the laboratory.

4. training And Education :-
provide comprehensive safety training for students and lab personnel emphasizing proper handling

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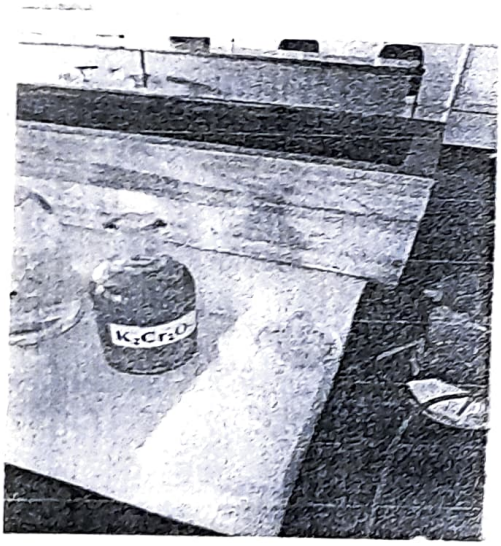
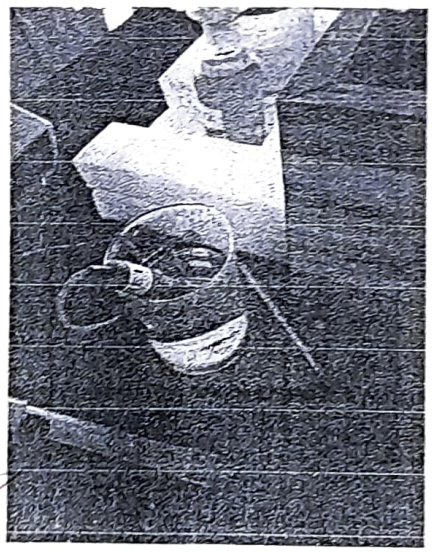
5. Labelling And Storage :-

Clearly label all containers with the appropriate chemical names.

- store the chemicals according to compatability keeps me mom.
- portable substances separate to word Unintentional reaction.

By implementing and strictly enforcing these precautionary measures the college can effectively resolve skills associated with chemical handling in the laboratory.





ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(A Unit of Alva's Education Foundation)
Shobhavana Campus, Mijar--574227, Moodbidri , D.K
Phone : 08258-262725 Fax: 08258-262726

(Accredited by NAAC with A+ Grade)
(Affiliated to VTU Belagavi, Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka)

ASSIGNMENT BOOK

Branch : CSE (IOT)

Assignment Number	Date of Submission	Maximum Marks / Marks Obtained	Signature of the Student with Date	Signature of the Teacher with Date
1	29/12/2024	10	29/12/24	30/1/25
2	20/01/2025	10	20/01/25	30/1/25
3				
4				
5				
Total Marks		10		
Average Assignment Marks		10		
Marks in words		Ten Only		

Name : Vivek.K.Das
USN : 4AL22IC061
Sem. & Section : III
Course Name / Code : operating system
Submitted to Prof : Mr. Mouresh. K. Arkachari

Internal Assessment Marks: 10
Max Marks: 10

Signature of Faculty

VISION OF THE INSTITUTE

Transformative education by pursuing excellence in Engineering and Mangement through enhancing skills to meet the evolving needs of the community

MISSION OF THE INSTITUTE

* To bestow quality technical education to imbide knowledge creativity and ethos to students community
* To inculcate the best engineering practices through transformative education
* To develop a knowledgeable individual for a dynamic industrial scenario
* To inculcate research entrepreneurial skills and human values in order to cater the needs of the society

VISION OF THE DEPARTMENT

MISSION OF THE DEPARTMENT

PROGRAM OUTCOMES (POs)	
PO1	**Engineering Knowledge** : Apply the knowledge of mathematics, science, Engineering fundamentals and an engineering specialization to the solution of complex engineering problems
PO2	**Problem analysis** : Identify formulate review research literature and analize complex engineering problems reaching substantiated conclusion using first principles of mathematics natural sciences and engineering sciences
PO3	**Design / development of solutions** : Design solution for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural societal and environmental considerations
PO4	**Conduct investigations of complex problems** : Use research based knowledge and research methods including design of experiments alalysis and interpretation of data and synthesis of the information to provide valid conclusions
PO5	**Modern tool usage** : Create select and apply appropriate techniques resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations
PO6	**The engineer and society** : Apply reasoning informed by the contextual knowledge to assess societal health safety legal and cultural issues and the consequent responsibilities relevent to the professional engineering practice
PO7	**Environment and sustainability** : Understand the impact of the professionals engineering solution in scoietal and environmental contexts and demonstrate the knowledge of and need for sustainable development
PO8	**Ethics** : Apply ethical principles and commit to professionals ethics and responsibilities and norms of the engineering prctice
PO9	**Individual and team work** : Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings
PO10	**Communication** : communicate effectively on complex engineering activities with the engineering community and with society at large such as being able to comprehend and write effective reports and design documentation make effective presentations and give and receive clear instructions
PO11	**Project management and finance** : Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work as a member and leader in a team to manage projects and in multidisciplinary enviroments
PO12	**Life long learning** : Recognize the need for and have the preparation and ability to engage in independent and life long learning in the broadest context of technological change

PROGRAM SPECIFIC OUTCOMES (PSOS)	
PSO1	
PSO2	
PSO3	
PSO4	

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)	
PEO1	
PEO2	
PEO3	
PEO4	