CYCLE 1
NAAC Accreditation 2023

ACADEMIC YEAR
2021-22

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

S.P.B. PATEL ENGINEERING COLLEGE

SUPPORTING DOCUMENTS

1.2.1

Name of Certificate/ Value added course	Course Code (if any)	Year of offering/study	Period (from date - to date)	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
2021-22						
Deep learning IITRopar - online	noc21-cs76	2021-2022	July - Oct 2021	12 Weeks	1	1
Professional Life Skill Development	NA	2021-2022	July 21 - December21	56 Hours	181	181
Workshop on Digital Marketing	NA	2021-22	17th Sep 2021	2 week & 2 hours per week	1	1
Artificial Intelligence	NA	2021-22	17th Sep 2021	3 week & 2 hours per week	1	1
Online autodesk fusion 360	NA	2021-22	12th July 2021	3 Day	1	1
"Emerging Trends in Educational and Research Quality"	NA	2020-21	5th Dec 2020	2 Day	1	1
TCS ION Career Edge - Young Professional	NA	2021-22	21 November 2021	17 Day	1	1
JAVA Standard Edition	NA	2021-22	14 March 2024	5 Month	1	1
Electric Hybrid Vehicle Course	NA	2021-2022	Dec-21	32 Hours	160	160

Name of Certificate/ Value added course	Course Code (if any)	Year of offering/study	Period (from date - to date)	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
Entrepreneurship And Innovation Course	NA	2021-2022	Mar-22	35 Hours	124	124
Project Management	NA	2021-2022	Nov-21	30 Hours	119	119

S.P.B. Patel Engineering College
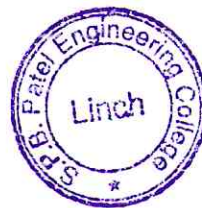## NOTICE

Date:23ʳᵈ June 2021

All Degree Engineering students and faculty members are hereby informed that the Institute has started a local chapter in association with NPTEL.

All are requested to take advantage of this opportunity and enroll in the courses of your interest.

If you have any queries related to NPTEL Programs, please contact Prof. Nirav Joshi, the resource person for NPTEL.
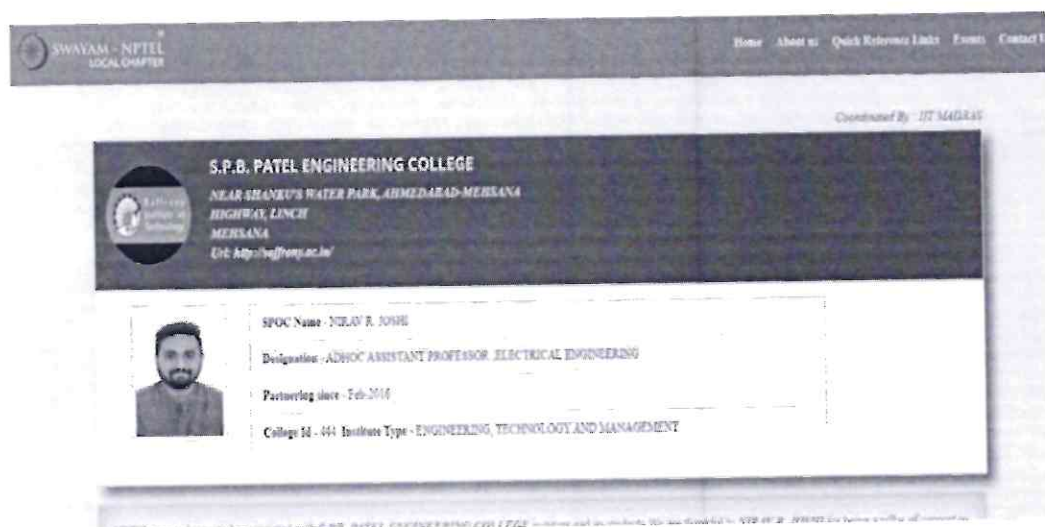
Principal

Copy to,

1. All HOD'S -FOR INFORMATION
2. NOTICE BOARD

Roll No: NPTEL21CS76S14420060

To
NEEL ALPESHBHAI PATEL
523,AMBIKA PARK-2
NR. DINDOLI FIRE STATION, DINDOLI, SURAT
SURAT
GUJARAT - 394210
PH. NO :6359258704

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

NEEL ALPESHBHAI PATEL

for successfully completing the course

Deep Learning

with a consolidated score of **53** %

Online Assignments	13.63/25	Proctored Exam	39/75

Total number of candidates certified in this course: **430**

Devendra Jalihal
Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Jul-Oct 2021
(12 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Madras

FREE ONLINE EDUCATION
swayam
शिक्षित भारत, उन्नत भारत

S.P.B. Patel Engineering College

## NOTICE

Date: 28th June 2021

All students of the Degree Engineering 2018 Batch are hereby informed that, to bridge the gap between academia and industry, the Institute will organize a Professional & Life Skill Development Course between July 2021 and December 2021.

Principal

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S.P.B. PATEL ENGINEERING COLLEGE

SAFFRONY INSTITUTE OF TECHNOLOGY CAMPUS
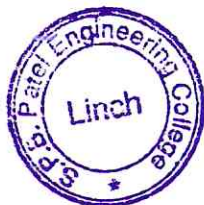
Professional Life Skills Development Report

S.P.B. Patel Engineering College

Year: 2021-2022

Period: July 2021 - December 2021

Duration: 56 Hours

Enrolment: 181 Students

Completion Rate: 100%

Introduction:

Personal and Life Skills Development program aimed to equip students with essential competencies and insights for personal growth, career advancement, and financial stability, thereby maximizing the value of their academic journey.

Core Concepts and Exploration:

In the orientation week, students were introduced to the core concepts of Personal and Life Skills development. Through an exploration of the Cost of Education, students gained an understanding of the significant investment in their academic journey and the opportunities it presents for personal and professional advancement.

Curriculum Highlights:

- Goal Clarity and SMART Goal-based Career Mapping: Through individually curated assignments, students delved into the importance of setting clear goals and crafting SMART (Specific, Measurable, Achievable, Relevant, Time-bound) career maps.

- Communication Skills: Sessions on professional etiquette, email etiquette, and behavioral writing enhanced students' communication skills, essential for success in both academic and professional spheres.

- Personality and Employability Assessments: Students underwent exhaustive assessments to gain insights into their strengths and areas for development, laying the foundation for personalized growth strategies.

- 1:1 Counseling and Training: Based on assessment reports, students received personalized counseling sessions aimed at transformational growth. Additionally, training in Project Management and Time Management techniques equipped students with essential organizational skills.

Achievements and Impact:

All 181 enrolled students successfully completed the program, indicating high engagement and commitment. Feedback highlighted improved goal-setting abilities, enhanced communication proficiency, and a heightened sense of self-awareness among participants.

Photographs:
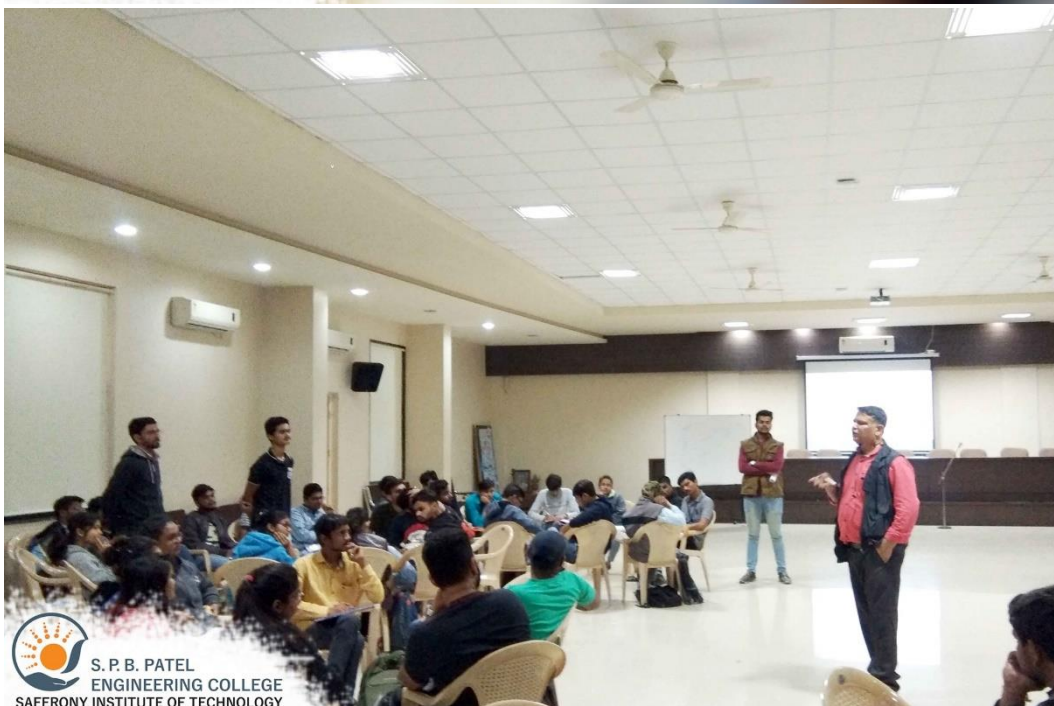
Future Learn

Certificate of Achievement

Tirth Sathwara

has completed the following course:

DIGITAL SKILLS: DIGITAL MARKETING
ACCENTURE

This online course provided an introduction to digital marketing, and explained the different digital marketing strategies, techniques and tools that are available for businesses to use today.

2 weeks, 2 hours per week

Camilla Drejer
Director of UKI Corporate Citizenship
Accenture

accenture

In association with

CPD CERTIFIED
The CPD Certification Service

The person named on this certificate has completed the activities in the attached transcript. For more information about Certificates of Achievement and the effort required to become eligible, visit futurelearn.com/proof-of-learning/certificate-of-achievement.

This certificate represents proof of learning. It is not a formal qualification, degree, or part of a degree.

accenture

Tirth Sathwara

has completed the following course:

DIGITAL SKILLS: DIGITAL MARKETING
ACCENTURE

100%
OVERALL
SCORE

Digital marketing is seen as a key tool in growing a business. This course explored what digital marketing means, why it is important and looked at some digital marketing strategies including display advertising, pay per click advertising and search engine optimisation. The digital marketing strategy components were explained including the importance of balancing and integrating different digital marketing strategies and how companies can target customers.

- Search engine optimisation
- Email marketing
- How to integrate these techniques

STUDY REQUIREMENT
2 weeks, 2 hours per week

LEARNING OUTCOMES
- Describe what digital marketing is
- Explain why digital marketing is important for businesses
- Describe the different types of digital marketing including; display advertisements, pay per click, search engine optimisation, and email marketing
- Explain how the different digital marketing methods can deliver value to businesses
- Identify the key features that should be included in a digital marketing strategy
- Describe how businesses can use data to target customers in their digital marketing campaign
- Explain the benefit and importance of integrating different digital marketing techniques

SYLLABUS
Week 1 - How to use digital marketing

- Introduction to digital marketing
- Display and pay-per-click advertising

Week 2 - Digital marketing techniques

Future Learn

![Future Learn]

Certificate of Achievement

Tirth Sathwara

has completed the following course:

DIGITAL SKILLS: ARTIFICIAL INTELLIGENCE
ACCENTURE

This online course helped discover the potential of Artificial Intelligence (AI) and how it can change the workplace. It enhanced understanding of AI with interesting facts, trends, and insights, and helped to explore the working relationship between humans and AI.

3 weeks, 2 hours per week

Camilla Drejer
Director
UKI Corporate Citizenship

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accenture

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OVERALL
SCORE

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STUDY REQUIREMENT
3 weeks, 2 hours per week

LEARNING OUTCOMES
• Describe the origins and advent of AI
• Explain the relationship between AI and Automation
• Reflect on the application of AI to your own context
• Identify key shifts in the workplace influenced by AI
• Assess the impact shifts in the workplace may have on roles and responsibilities
• Identify how the relationship has changed between AI and humans
• Identify future skills required to work and interact with AI
• Produce an action plan to adapt your skills for the future

SYLLABUS
Week 1: Introduction to Artificial Intelligence

• What is Artificial Intelligence and where did it come from?
• AI in Action
• What does this mean for me?

Week 2: Artificial Intelligence in Industry

• Impact of AI on Individuals
• What does this mean for me?

Week 3: Adapting your skills to work with Artificial Intelligence

• How has the relationship changed between AI and Humans?
• Imagining the Future

Gujarat Technological University

Design Innovation Centre

DESIGN INNOVATION CENTRE

ESTD - 2007

360

AUTODESK.

E - Certificate of Participation

This is to certify that

Het N Patel

has successfully completed Three Days Workshop on
"Autodesk Fusion 360 (Intermediate Level)" Conducted by
GTU - Design **I**nnovation **C**entre **(DIC), Ahmedabad** in the
association with **Autodesk**, held during
4th, 6th & 8th OCT 2021

संजय चौहान

Certificate ID : GTU/GIC/DIC/Autodesk/2021/5438/078

Date: 8th OCT 2021

DR. SANJAY CHAUHAN
DIRECTOR, GIC - GTU

Adarsh Shikshan Prasarak Mandal's
Shri Bapusaheb D.D. Vispute College of Education, New Panvel, Dist- Raigad

Approved by WRC, NCTE, Bhopal & Affiliated to the University of Mumbai

NAAC Accredited

Internal Quality Assurance Cell

"NAAC sponsored"
Two Day Online National Seminar
C E R T I F I C A T E

This is to certify that **Patel jeel maheshbhai** has actively participated in the Two day National Seminar on **"Emerging Trends in Educational and Research Quality"** on 5th & 6th December 2020.

Chairman,
Hon. Shri. Dhanraj D. Vispute

Principal & Convener
Dr. Seema N.Kamble

Code No.
APW 00890/123160

Certificate of Achievement

Congratulations!

HEMIL PRAJAPATI

for successfully completing

TCS iON Career Edge - Young Professional

a course that covers

Communication Skills | Presentation Skills | Soft Skills | Career Guidance Framework | Resume Writing | Group Discussion Skills | Interview Skills | Business Etiquette | Effective Email Writing | Telephone Etiquette | Accounting Fundamentals | IT Foundational Skills | Overview of Artificial Intelligence*(Source: NPTEL)

Start Date: 21 Nov 2021

End Date: 07 Dec 2021

Mehul Mehta

Mehul Mehta
Global Delivery Head - TCS iON,
Tata Consultancy Services

CERTIFIED
Cert ID: 119854-20083961-1016
Date: 07 Dec 2021

VERIFIED

CERTIFICATE *of* COMPLETION

MySirG.com

This is to certify that

Komal Kumari

has successfully completed 'Java Standard Edition' during the period
14-Mar-2022 to 16-JUL-2022

Saurabh Shukla

Instructor, Mysirg Education Services Pvt Ltd

S.P.B. Patel Engineering College

NOTICE

Date: 27th November 2021

All Degree Engineering students are hereby informed that the Institute is going to organize a Soft Skills Course in December 2021.

Interested students are requested to provide their names to their respective departments.

Principal

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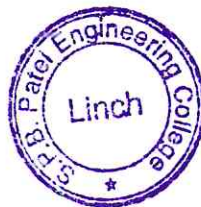
Report on
Electric Hybrid Vehicle Course
S.P.B. Patel Engineering College

Date: December 2021

Participants: 160

Organizer: S.P.B. Patel Engineering College

Duration: 32 Hours

Introduction:

The workshop on Electric Hybrid Vehicles held in December 2021 saw enthusiastic participation from 160 attendees. The workshop aimed to delve into the advancements, challenges, and future prospects of electric hybrid vehicles in the automotive industry.

Key Highlights:

1. Industry Experts' Insights: Seasoned professionals and industry experts shared their insights into the latest technologies and trends in electric hybrid vehicles. They discussed the integration of electric and hybrid systems, battery technologies, charging infrastructure, and regulatory frameworks.

2. Technical Sessions: The workshop featured technical sessions focusing on various aspects of electric hybrid vehicles, including:

  - **Hybrid drivetrain architectures**

  - **Energy management systems**

  - **Vehicle electrification strategies**

  - **Environmental sustainability**

  - **Performance optimization**

3. Hands-on Demonstrations: Participants had the opportunity to engage in hands-on demonstrations of hybrid vehicle components and systems. These interactive sessions provided valuable practical knowledge and enhanced understanding of hybrid vehicle technology**.**

4. Case Studies: Real-world case studies were presented, showcasing successful implementations of electric hybrid vehicles in different sectors. Participants gained insights into the economic, environmental, and operational benefits of hybridization.

5. Networking Opportunities: The workshop facilitated networking among participants, fostering collaborations and knowledge exchange. Attendees had the chance to interact with peers, experts, and industry leaders, expanding their professional networks.

Outcomes:

1. Enhanced Understanding: Participants gained a deeper understanding of electric hybrid vehicle technologies, including their design, operation, and potential applications.

2. Skills Development: The workshop equipped attendees with practical skills and knowledge essential for working in the rapidly evolving field of electric mobility.

3. Networking: Participants established valuable connections within the industry, academia, and research community, paving the way for future collaborations and opportunities.

4. Awareness: The workshop raised awareness about the importance of electric hybrid vehicles in mitigating environmental impacts and reducing dependence on fossil fuels.

Conclusion:

The workshop on Electric Hybrid Vehicles conducted in December 2021 provided a comprehensive platform for learning, collaboration, and innovation in the field of sustainable transportation. With active participation from 160 attendees and insightful discussions led by industry experts, the event contributed to advancing knowledge and fostering the adoption of electric hybrid vehicle technology.

ATTENDENCE SHEET OF STUDENTS

List of Participants:

Sr.no	BR_NAME	map_number	Name
1	AUTOMOBILE ENGINEERING	180390102001	GOSWAMI YASHGIRI RAJENDRAGIRI
2	AUTOMOBILE ENGINEERING	180390102002	HUTASHAN PRASAD SAHU
3	AUTOMOBILE ENGINEERING	180390102003	PADH HARSH MANOJBHAI
4	AUTOMOBILE ENGINEERING	180390102004	PANCHAL PARTHKUMAR ASHOKBHAI
5	AUTOMOBILE ENGINEERING	180390102005	SHARMA DHAVAL MOHANBHAI
6	AUTOMOBILE ENGINEERING	180390102006	VANJARA MOHITKUMAR POONAMBHAI
7	CIVIL ENGINEERING	180390106001	CHAUDHARI GIRISHKUMAR MEMABHAI
8	CIVIL ENGINEERING	180390106006	PANCHAL DARSHIL YOGESHKUMAR
9	CIVIL ENGINEERING	180390106007	PARIKH PRACHI VIPULKUMAR
10	CIVIL ENGINEERING	180390106010	PATEL HANY VIJAYKUMAR
11	CIVIL ENGINEERING	180390106011	PATEL RAJ VISHNUBHAI
12	CIVIL ENGINEERING	180390106012	PATEL RUTVIK RAJENDRAKUMAR
13	CIVIL ENGINEERING	180390106013	PATEL URVISHKUMAR DIKSHITBHAI
14	CIVIL ENGINEERING	180390106015	PRAJAPATI MIHIRKUMAR JAGDISHKUMAR
15	CIVIL ENGINEERING	180390106016	RADHANPURA DHRUV DIPAKKUMAR
16	CIVIL ENGINEERING	180390106018	SUNSARA JHANVI MAHESHKUMAR
17	CIVIL ENGINEERING	180390106019	SUTHAR KURVABEN GAUTAMKUMAR
18	COMPUTER ENGINEERING	180390107001	BAROT MANAV MAHESHBHAI
19	COMPUTER ENGINEERING	180390107002	CHAUHAN KRUNAL DHARMENDRABHAI
20	COMPUTER ENGINEERING	180390107003	CHAUHAN PRINCY PARESH
21	COMPUTER ENGINEERING	180390107004	DAXINI BHOOMIBEN BHARATBHAI
22	COMPUTER ENGINEERING	180390107006	HARLALKA ABHIKESH MANOJ
23	COMPUTER ENGINEERING	180390107007	JIVANI DRASHTI BIPINBHAI
24	COMPUTER ENGINEERING	180390107009	KHATRI SHIVANG DEVENDRABHAI
25	COMPUTER ENGINEERING	180390107010	LALA NEHA SANJIVKUMAR
26	COMPUTER ENGINEERING	180390107012	MAKWANA DHRUVI ALPESHBHAI
27	COMPUTER ENGINEERING	180390107013	MEVADA RAVINDRA DILIPBHAI
28	COMPUTER ENGINEERING	180390107015	NAKRANI PRESHA JITUBHAI
29	COMPUTER ENGINEERING	180390107019	PATEL HARSHIL RAJESHBHAI
30	COMPUTER ENGINEERING	180390107020	PATEL HARSHKUMAR YASHVANTBHAI
31	COMPUTER ENGINEERING	180390107021	PATEL JAY ARVINDBHAI
32	COMPUTER ENGINEERING	180390107022	PATEL KANDARP SANJAYKUMAR
33	COMPUTER ENGINEERING	180390107023	PATEL MIHIR PRAVINKUMAR

Sr.no	BR_NAME	map_number	Name
34	COMPUTER ENGINEERING	180390107024	PATEL MILAN SOMABHAI
35	COMPUTER ENGINEERING	180390107025	PATEL MIT NARANBHAI
36	COMPUTER ENGINEERING	180390107026	PATEL NAMRAKUMAR GOVINDBHAI
37	COMPUTER ENGINEERING	180390107027	PATEL NIRZAREE GOVINDBHAI
38	COMPUTER ENGINEERING	180390107028	PATEL NIYATI KAMLESHKUMAR
39	COMPUTER ENGINEERING	180390107030	PATEL PARTHKUMAR VASUDEVBHAI
40	COMPUTER ENGINEERING	180390107031	PATEL PRINCEKUMAR KANUBHAI
41	COMPUTER ENGINEERING	180390107032	PATEL PRIYANK YOGESHKUMAR
42	COMPUTER ENGINEERING	180390107035	PATEL RUTVIKKUMAR BABULAL
43	COMPUTER ENGINEERING	180390107037	PAWAR ATHARVA VIJAYDEEP
44	COMPUTER ENGINEERING	180390107038	PETHANI HARSH RAJESHBHAI
45	COMPUTER ENGINEERING	180390107039	PRAJAPATI AAYUSH NARENDRABHAI
46	COMPUTER ENGINEERING	180390107040	PRAJAPATI HARSH SHAILESHKUMAR
47	COMPUTER ENGINEERING	180390107043	RABARI JAYESH BHAGWANBHAI
48	COMPUTER ENGINEERING	180390107044	RAJPUT PRUTHVISINH VIRENDRASINH
49	COMPUTER ENGINEERING	180390107045	RAJPUT SEJAL JITENDRASINGH
50	COMPUTER ENGINEERING	180390107046	SAVANI HITAXI DAYABHAI
51	COMPUTER ENGINEERING	180390107047	SHAH DEV NILESHBHAI
52	COMPUTER ENGINEERING	180390107048	SHAH SHRUTIBEN NARESHKUMAR
53	COMPUTER ENGINEERING	180390107049	SHARMA AMITKUMAR MUKESHKUMAR
54	COMPUTER ENGINEERING	180390107050	SIDDHPURA SAGAR NARESHBHAI
55	COMPUTER ENGINEERING	180390107051	SIDDIKI ASFAK NASIMBHAI
56	COMPUTER ENGINEERING	180390107052	SONI AKSHAT MUKESH
57	COMPUTER ENGINEERING	180390107053	SUTARIYA KIRTAN MANSUKHBHAI
58	COMPUTER ENGINEERING	180390107055	SUTHAR YASHVIBEN MANUBHAI
59	COMPUTER ENGINEERING	180390107056	SWAMI ANAND BIPINCHANDRA
60	COMPUTER ENGINEERING	180390107057	SWAMI KAMAL JAGDISH
61	COMPUTER ENGINEERING	180390107058	THAKKAR VEDANT PRADIPKUMAR
62	COMPUTER ENGINEERING	180390107059	THESIA JANUSHEE ASHOKBHAI
63	COMPUTER ENGINEERING	180390107060	VAGHASIYA MILAN RASIKLAL
64	COMPUTER ENGINEERING	180390107061	VAGHASIYA RUMIT JITENDRABHAI
65	COMPUTER ENGINEERING	180390107062	SINGH PRACHI
66	ELECTRICAL ENGINEERING	180390109001	ASARI NILESH BHURABHAI
67	ELECTRICAL ENGINEERING	180390109004	DESAI PUNIT AMRUTBHAI
68	ELECTRICAL ENGINEERING	180390109006	JAYSVAL JAYESH BALVANTBHAI
69	ELECTRICAL ENGINEERING	180390109007	MEVADA HARSHIL AMRUTLAL
70	ELECTRICAL ENGINEERING	180390109009	PATEL SHUBH BHAVESHBHAI
71	ELECTRICAL ENGINEERING	180390109012	PRAJAPATI JITENDRA CHHATRABHAI
72	ELECTRICAL ENGINEERING	180390109013	PRAJAPATI MITU RAJESHKUMAR
73	ELECTRICAL ENGINEERING	180390109015	THAKOR SUNILJI VINUJI
74	ELECTRICAL ENGINEERING	180390109017	VORA DHARAMKUMAR JAGDISHBHAI

Sr.no	BR_NAME	map_number	Name
75	ELECTRONICS & COMMUNICATION ENGINEERING	180390111001	PATEL KAUSHALKUMAR SATISHBHAI
76	ELECTRONICS & COMMUNICATION ENGINEERING	180390111002	PATEL KRUNAL CHAMPAKLAL
77	ELECTRONICS & COMMUNICATION ENGINEERING	180390111003	PRAJAPATI KHYATI KANAIYALAL
78	INFORMATION TECHNOLOGY	180390116001	DAVE SHUBHAM DIVYAM
79	INFORMATION TECHNOLOGY	180390116003	DHADUK ISHA PRAKASHBHAI
80	INFORMATION TECHNOLOGY	180390116004	DOSHI ARPAN RAKESHBHAI
81	INFORMATION TECHNOLOGY	180390116005	GAJJAR YASH MITESHBHAI
82	INFORMATION TECHNOLOGY	180390116006	GALA YASHVI BHARATBHAI
83	INFORMATION TECHNOLOGY	180390116007	KALET MAJAHARBHAI SABIRBHAI
84	INFORMATION TECHNOLOGY	180390116008	KATKAR UMESH RAJUBHAI
85	INFORMATION TECHNOLOGY	180390116010	MISHRA HARSHIL SATISHKUMAR
86	INFORMATION TECHNOLOGY	180390116011	NAIR ANUPAM HARIKUMAR
87	INFORMATION TECHNOLOGY	180390116012	PANCHAL JIGISHABEN DASHARATHBHAI
88	INFORMATION TECHNOLOGY	180390116013	PANDIT SHIVANGI JITENDRAKUMAR
89	INFORMATION TECHNOLOGY	180390116014	PATEL AKASHKUMAR HASMUKHBHAI
90	INFORMATION TECHNOLOGY	180390116018	PATEL HARSH NARENDRABHAI
91	INFORMATION TECHNOLOGY	180390116019	PATEL HINAL VIPUL
92	INFORMATION TECHNOLOGY	180390116020	PATEL JAYKUMAR VISHNUBHAI
93	INFORMATION TECHNOLOGY	180390116021	PATEL MAITRIBEN RAJENDRAKUMAR
94	INFORMATION TECHNOLOGY	180390116022	PATEL MEETKUMAR SHAILESHBHAI
95	INFORMATION TECHNOLOGY	180390116023	PATEL MESHWA JIGNESHKUMAR
96	INFORMATION TECHNOLOGY	180390116024	PATEL NEEL ALPESHBHAI
97	INFORMATION TECHNOLOGY	180390116025	PATEL NIDHIBEN SHAILESHKUMAR
98	INFORMATION TECHNOLOGY	180390116029	PATEL SMITKUMAR MUKESHBHAI
99	INFORMATION TECHNOLOGY	180390116031	PRAJAPATI SHAILESH NARAYANBHAI
100	CIVIL ENGINEERING	130390106052	SAXENA KARANKUMAR SHAILESHBHAI
101	CIVIL ENGINEERING	130390106056	SHAILAR MEHULKUMAR HASMUKHBHAI
102	MECHANICAL ENGINEERING	140390119063	PATEL JAY SHAILESHBHAI
103	AUTOMOBILE ENGINEERING	150390102021	SINGH VIKAS ASHOKKUMAR
104	CIVIL ENGINEERING	150390106017	PATEL UTSAV BHARATBHAI
105	CIVIL ENGINEERING	150390106022	SONI RAJ DEEPAK
106	MECHANICAL ENGINEERING	150390119019	PARMAR VIJAYKUMAR MANGALBHAI
107	MECHANICAL ENGINEERING	150390119045	RAJPUT VISHALKUMAR NATVARSINH
108	COMPUTER ENGINEERING	160390107014	PATEL ADITI MUKESHBHAI
109	MECHANICAL ENGINEERING	160390119002	DAVE DHRUV NITINKUMAR
110	INFORMATION TECHNOLOGY	170390116003	BAROT TIRTH KAMLESHKUMAR
111	MECHANICAL ENGINEERING	170390119005	CHAVDA VINAYAKBHAI JAYANTIBHAI
112	MECHANICAL ENGINEERING	170393119001	BHATT SIDHARTH SUBODH
113	INFORMATION TECHNOLOGY	180390116034	RATHOD PALAK VIJAYKUMAR
114	INFORMATION TECHNOLOGY	180390116036	RAVAL ANAND NITINKUMAR

Sr.no	BR_NAME	map_number	Name
115	INFORMATION TECHNOLOGY	180390116037	RAVAL YASH PRAFULKUMAR
116	INFORMATION TECHNOLOGY	180390116038	SAVALIYA KRISHNA HARSUKHBHAI
117	INFORMATION TECHNOLOGY	180390116039	SAVANI ARPITBHAI SAVJIBHAI
118	INFORMATION TECHNOLOGY	180390116040	SAVANI SHREY DHARMESHBHAI
119	INFORMATION TECHNOLOGY	180390116042	APURVA SHETH
120	INFORMATION TECHNOLOGY	180390116043	SOMPURA CHIRAG MANISHKUMAR
121	INFORMATION TECHNOLOGY	180390116044	THAKOR JAYESHJI VISHNUJI
122	INFORMATION TECHNOLOGY	180390116045	THAKOR ROSHNIBEN GANESHJI
123	INFORMATION TECHNOLOGY	180390116046	VYAS KRIMA PARAG
124	MECHANICAL ENGINEERING	180390119001	BHALGAMA DILIPBHAI LAVINGBHAI
125	MECHANICAL ENGINEERING	180390119002	MAKWANA NAMRATA DHIRAJBHAI
126	MECHANICAL ENGINEERING	180390119003	MEHTA TAPAN PARESHBHAI
127	MECHANICAL ENGINEERING	180390119004	MODI VISHAL RAJENDRAKUMAR
128	MECHANICAL ENGINEERING	180390119005	PARMAR KEVALYARAJ DEVENDRASINH
129	MECHANICAL ENGINEERING	180390119006	PARMAR SURESHBHAI BHIKHABHAI
130	MECHANICAL ENGINEERING	180390119007	PRAJAPATI HIREN MAHESHKUMAR
131	MECHANICAL ENGINEERING	180390119010	SHAH PREM BRIJESHKUMAR
132	CIVIL ENGINEERING	180393106002	MAKWANA AISHWARYA GOVIND
133	CIVIL ENGINEERING	180393106003	MAKWANA SHARMISHTHA GOVIND
134	AUTOMOBILE ENGINEERING	190393102001	MANSURI ATIR UNISMAHAMAD
135	AUTOMOBILE ENGINEERING	190393102003	SUTHAR BHAUMIKKUMAR RAKESHBHAI
136	CIVIL ENGINEERING	190393106001	PRAJAPATI KISHANKUMAR KANUBHAI
137	CIVIL ENGINEERING	190393106002	PRAJAPATI SAGARKUMAR VISHNUBHAI
138	CIVIL ENGINEERING	190393106003	PANDYA MAULIK BHARATBHAI
139	CIVIL ENGINEERING	190393106004	PARMAR AKASHKUMAR JASHVANTSINH
140	CIVIL ENGINEERING	190393106005	PARMAR KRISHA JITENDRAKUMAR
141	CIVIL ENGINEERING	190393106006	PATEL MEETKUMAR RAJESHBHAI
142	CIVIL ENGINEERING	190393106007	RAVAL AASTHA PARESHBHAI
143	CIVIL ENGINEERING	190393106008	THAKAR AANUSHKUMAR JAYENDRAKUMAR
144	COMPUTER ENGINEERING	190393107001	BHAVSAR NISHI ASHVINBHAI
145	COMPUTER ENGINEERING	190393107003	PATEL VISHRUTI KANJIBHAI
146	COMPUTER ENGINEERING	190393107004	TEJ SONI
147	COMPUTER ENGINEERING	190393107005	PRAJAPATI HIMANI SHAMBHUBHAI
148	COMPUTER ENGINEERING	190393107006	RAJPUT ABHISHEKSINGH CHANDRADEOSINGH
149	COMPUTER ENGINEERING	190393107007	SAIYED MOHAMMAD YASIN AHMAD HUSEN
150	COMPUTER ENGINEERING	190393107008	THAKOR SONALBEN RAMSANGJI
151	COMPUTER ENGINEERING	190393107009	ZALA VARSHABA NIRUBHA
152	ELECTRICAL ENGINEERING	190393109001	NAYAK HARDIK PRAVINBHAI
153	INFORMATION TECHNOLOGY	190393116001	PATEL KRISHNA RAJENDRA
154	INFORMATION TECHNOLOGY	190393116002	MANVANI POOJA RAMESHBHAI

Sr.no	BR_NAME	map_number	Name
155	INFORMATION TECHNOLOGY	190393116003	SURBHI SINGH
156	MECHANICAL ENGINEERING	190393119001	DHANDHUKIYA JIGNESHKUMAR LAXMANBHAI
157	MECHANICAL ENGINEERING	190393119002	JADAV YASH PUNAMBHAI
158	MECHANICAL ENGINEERING	190393119004	PANCHAL JAYKUMAR DINESHBHAI
159	MECHANICAL ENGINEERING	190393119005	PARMAR VISHALKUMAR MAHENDRABHAI
160	MECHANICAL ENGINEERING	190393119006	PATEL KISHANKUMAR KIRITBHAI

Course Curriculum:

Electric Hybrid Vehicles

Introduction to Electric Hybrid Vehicles

1. **Overview of Electric Hybrid Vehicles**
   - Introduction to Electric Hybrid Vehicles: Define electric hybrid vehicles (EHVs) and discuss their significance in the automotive industry. Explain the concept of hybridization and the different types of EHVs, including parallel hybrids, series hybrids, and plug-in hybrids.
   - Advantages of EHVs: Highlight the environmental and economic benefits of EHVs, such as reduced emissions, improved fuel efficiency, and lower operating costs. Discuss how EHVs contribute to sustainability and energy independence.
   - Challenges and Opportunities: Identify challenges facing the widespread adoption of EHVs, such as battery technology limitations, infrastructure development, and consumer acceptance. Explore opportunities for innovation and growth in the EHV market.

2. **Hybrid Vehicle Architecture and Components**
   - Hybrid Powertrain Components: Explain the architecture of a hybrid powertrain, including the internal combustion engine (ICE), electric motor/generator, transmission, battery pack, and power electronics. Discuss the roles and interactions of each component in hybrid vehicle operation.
   - Operating Modes: Introduce the different operating modes of hybrid vehicles, such as electric-only mode, hybrid mode, and regenerative braking. Discuss how hybrid control systems manage power distribution and optimize efficiency during driving.
   - Hybrid Vehicle Configurations: Compare and contrast different hybrid vehicle configurations, such as series-parallel hybrids, mild hybrids, and full hybrids. Discuss the advantages and limitations of each configuration in terms of fuel economy and performance.

3. **Battery Technology for EHVs**
   - Introduction to Battery Technology: Provide an overview of battery technologies used in EHVs, including lithium-ion (Li-ion), nickel-metal hydride (NiMH), and lead-acid batteries. Discuss the characteristics, performance, and cost considerations of each battery type.
   - Battery Management Systems (BMS): Explain the role of BMS in monitoring and managing battery performance, including state of charge (SOC), state of health (SOH), and temperature. Discuss how BMS optimize battery usage and prolong battery life.
   - Advances in Battery Technology: Discuss recent advancements in battery technology, such as solid-state batteries, fast-charging technologies, and battery recycling. Explore the potential impact of these advancements on the future of EHVs.

4. **Charging Infrastructure and Standards**
- Charging Infrastructure Overview: Provide an overview of charging infrastructure for EHVs, including public charging stations, home charging solutions, and fast-charging networks. Discuss the importance of charging infrastructure in supporting the adoption of electric vehicles.
- Charging Standards and Protocols: Introduce charging standards and protocols used in the electric vehicle industry, such as CHAdeMO, CCS (Combined Charging System), and Tesla Supercharger. Discuss the compatibility and interoperability of different charging standards.
- Charging Considerations: Discuss factors to consider when planning and implementing charging infrastructure, including location selection, power capacity, and accessibility. Explore best practices for maximizing the convenience and efficiency of charging stations.

Hybrid Vehicle Control Systems and Optimization

1. **Hybrid Vehicle Control Strategies**
- Control System Architecture: Explain the architecture of hybrid vehicle control systems, including powertrain control unit (PCU), motor controllers, and supervisory control algorithms. Discuss how these components work together to optimize vehicle performance and efficiency.
- Energy Management Strategies: Introduce energy management strategies used in hybrid vehicles, such as rule-based control, predictive control, and adaptive control. Discuss how these strategies prioritize power sources and optimize energy flow based on driving conditions.
- Regenerative Braking Systems: Explain the operation of regenerative braking systems in hybrid vehicles, which capture and store kinetic energy during braking for later use. Discuss the benefits of regenerative braking in improving fuel efficiency and extending battery life.

2. **Hybrid Vehicle Simulation and Modelling**
- Simulation Tools and Techniques: Introduce simulation tools and techniques used for modeling and simulating hybrid vehicle systems, such as MATLAB/Simulink, AVL CRUISE, and Ricardo IGNITE. Discuss the advantages of simulation in predicting vehicle performance, energy consumption, and emissions.
- Vehicle Dynamics Modeling: Discuss the modeling of vehicle dynamics, including longitudinal dynamics (acceleration, braking) and lateral dynamics (steering, cornering). Explain how vehicle dynamics affect hybrid control strategies and system optimization.

- Case Studies and Applications: Present case studies and real-world applications of hybrid vehicle simulation and modeling. Discuss how simulation tools are used in vehicle design, development, and validation to improve performance and efficiency.

3. **Optimization Techniques for Hybrid Vehicles**
- Optimization Methods Overview: Provide an overview of optimization methods used in hybrid vehicle design and control, including genetic algorithms, particle swarm optimization, and model predictive control. Discuss the principles and applications of each optimization technique.
- Multi-Objective Optimization: Discuss the challenges of multi-objective optimization in hybrid vehicle design, such as balancing conflicting objectives (e.g., fuel economy vs. emissions, performance vs. cost). Introduce methods for solving multi-objective optimization problems.
- Optimization Case Studies: Present case studies and examples of optimization applied to hybrid vehicle systems. Discuss how optimization techniques are used to improve vehicle efficiency, performance, and reliability in real-world applications.

4. **Hands-on Activity: Hybrid Vehicle Control Simulation**
- Simulation Exercise: Provide participants with hands-on experience in simulating hybrid vehicle control systems using simulation software. Guide participants through the process of setting up simulation models, defining control strategies, and analyzing simulation results.
- Data Analysis and Interpretation: Assist participants in analyzing simulation data and interpreting results to evaluate the performance of hybrid vehicle control systems. Encourage participants to identify opportunities for optimization and improvement based on simulation findings.

Design and Development of Hybrid Vehicle Systems

1. **Hybrid Vehicle Design Considerations**
- Design Requirements and Constraints: Discuss the design requirements and constraints of hybrid vehicle systems, including performance targets, regulatory standards, and cost considerations. Emphasize the importance of balancing competing priorities in hybrid vehicle design.
- System Integration Challenges: Explore the challenges of integrating hybrid vehicle components and subsystems, such as powertrain, energy storage, and control systems. Discuss strategies for optimizing system integration and minimizing design complexity.
- Design for Manufacturing and Assembly (DFMA): Introduce DFMA principles and techniques for optimizing the manufacturability and assembly of hybrid vehicle systems. Discuss how DFMA principles influence design decisions and reduce production costs.

2. Electric Propulsion Systems

- Electric Motor Technologies: Introduce electric motor technologies used in hybrid vehicle propulsion systems, including induction motors, permanent magnet motors, and synchronous reluctance motors. Discuss the characteristics, performance, and applications of each motor type.

- Motor Control Strategies: Discuss motor control strategies for hybrid vehicle propulsion, such as field-oriented control (FOC), direct torque control (DTC), and sensorless control. Explain how these control strategies optimize motor efficiency and performance.

- Power Electronics and Inverters: Explain the role of power electronics and inverters in converting DC power from the battery into AC power for the electric motor. Discuss the design considerations and specifications of power electronics components in hybrid vehicle systems.

3. Energy Storage Systems for EHVs

- Battery Pack Design Considerations: Discuss design considerations for battery packs used in EHVs, including energy density, power density, safety, and thermal management. Explain how battery pack design impacts vehicle performance, range, and durability.

- Battery Pack Integration: Explore different approaches to integrating battery packs into hybrid vehicle systems, such as module-level integration vs. pack-level integration, and centralized vs. distributed architectures. Discuss the trade-offs and implications of each integration approach.

- Battery Testing and Validation: Discuss testing and validation procedures for battery packs, including electrical testing, mechanical testing, and environmental testing. Highlight the importance of rigorous testing in ensuring battery safety, reliability, and performance.

4. Hybrid Vehicle System Optimization

- System-Level Optimization: Discuss system-level optimization techniques for hybrid vehicle design, including component sizing, powertrain calibration, and control strategy optimization. Explain how system-level optimization maximizes overall vehicle efficiency and performance.

- Vehicle Simulation and Modeling: Introduce vehicle simulation and modeling tools used in system-level optimization, such as AVL CRUISE, GT-SUITE, and MATLAB/Simulink. Discuss how simulation and modeling support iterative design and optimization throughout the development process.

- Optimization Case Studies: Present case studies and examples of system-level optimization applied to hybrid vehicle design. Discuss how optimization techniques are used to achieve performance targets, meet regulatory requirements, and minimize lifecycle costs.

Testing and Validation of Hybrid Vehicle Systems

1. **Testing and Validation Overview**
   - Importance of Testing and Validation: Discuss the importance of testing and validation in verifying the performance, safety, and reliability of hybrid vehicle systems. Explain how testing and validation support product development and regulatory compliance.
   - Testing Methods and Techniques: Introduce different testing methods and techniques used in hybrid vehicle development, including bench testing, component testing, and vehicle testing. Discuss the advantages and limitations of each testing approach.
   - Test Planning and Execution: Discuss the process of test planning and execution, including test plan development, test procedure development, and test execution. Highlight the importance of comprehensive test coverage and data analysis in validating system performance.

2. **Vehicle Dynamics Testing**
   - Handling and Stability Testing: Discuss vehicle dynamics testing procedures for evaluating handling, stability, and ride comfort characteristics of hybrid vehicles. Introduce testing maneuvers, such as slalom, lane change, and braking tests, used to assess vehicle dynamics performance.
   - Suspension and Chassis Testing: Explore suspension and chassis testing procedures for evaluating ride quality, durability, and performance under various road conditions. Discuss how suspension and chassis design impact vehicle dynamics and overall driving experience.
   - Data Acquisition and Analysis: Explain data acquisition and analysis techniques used in vehicle dynamics testing, such as vehicle instrumentation, sensor data collection, and data processing. Discuss how test data is analyzed to assess vehicle performance and identify areas for improvement.

3. **Powertrain Testing and Calibration**
   - Powertrain Testing Procedures: Introduce powertrain testing procedures for evaluating the performance, efficiency, and emissions of hybrid vehicle powertrains. Discuss testing protocols for different operating conditions, such as steady-state, transient, and cold-start conditions.
   - Engine and Motor Testing: Discuss engine and motor testing procedures, including dynamometer testing, performance mapping, and durability testing. Explain how engine and motor testing verifies powertrain performance and validates design specifications.
   - Calibration and Optimization: Explain the process of powertrain calibration and optimization, including engine mapping, motor control tuning, and hybrid control strategy

optimization. Discuss how calibration and optimization enhance powertrain efficiency and drivability.

4. **Battery Testing and Validation**

- Battery Performance Testing: Discuss battery performance testing procedures for evaluating capacity, power output, and cycle life under different operating conditions. Introduce standardized test protocols, such as charge-discharge cycling tests and thermal cycling tests.

- Battery Safety Testing: Explore battery safety testing procedures for assessing the risk of thermal runaway, short circuit, and other safety hazards. Discuss how safety testing ensures compliance with industry standards and regulatory requirements.

- Environmental Testing: Discuss environmental testing procedures for evaluating battery performance and reliability in extreme temperature, humidity, and vibration conditions. Explain how environmental testing simulates real-world operating conditions and verifies battery durability.

Future Trends and Innovations in Electric Hybrid Vehicles

1. **Emerging Technologies in Hybrid Vehicles**

- Overview of Emerging Technologies: Discuss emerging technologies and trends shaping the future of hybrid vehicles, such as electrification, connectivity, and autonomy. Explore how these technologies are transforming vehicle design, operation, and user experience.

- Electrification Trends: Discuss the trend towards electrification in the automotive industry, including the adoption of electric powertrains, hybridization, and fuel cell technology. Explore how electrification is driving innovation and sustainability in vehicle design.

- Connectivity and Autonomy: Explore the role of connectivity and autonomy in hybrid vehicle development, including vehicle-to-vehicle (V2V) communication, vehicle-to-infrastructure (V2I) communication, and autonomous driving features. Discuss how connectivity and autonomy enhance safety, efficiency, and convenience in hybrid vehicles.

2. **Future Directions in Hybrid Vehicle Development**

- Sustainability and Environmental Impact: Discuss the importance of sustainability and environmental stewardship in hybrid vehicle development. Explore strategies for reducing greenhouse gas emissions, minimizing resource consumption, and promoting circular economy principles.

- Technological Advancements: Explore future technological advancements and innovations in hybrid vehicle design, including advanced powertrain technologies,

lightweight materials, and energy storage solutions. Discuss how these advancements will improve vehicle performance, efficiency, and affordability.

- Market Trends and Consumer Preferences: Discuss market trends and consumer preferences driving the adoption of hybrid vehicles, including regulatory incentives, fuel price volatility, and changing consumer attitudes towards sustainability. Explore how market dynamics will influence the future of hybrid vehicle development and adoption.

3. **Industry Panel Discussion: Future of Hybrid Vehicles**
   - Panelists: Invite industry experts, researchers, and thought leaders to participate in a panel discussion on the future of hybrid vehicles. Panelists may represent automotive manufacturers, technology suppliers, research institutions, and regulatory agencies.
   - Discussion Topics: Facilitate a discussion on key topics and questions related to the future of hybrid vehicles, such as technology trends, market dynamics, regulatory challenges, and consumer adoption. Encourage panelists to share insights, perspectives, and predictions for the future of hybrid vehicle development.
   - Audience Q&A: Allow workshop participants to ask questions and engage in dialogue with the panelists. Encourage participants to share their perspectives and contribute to the discussion on the future of hybrid vehicles.

4. **Workshop Conclusion and Next Steps**
   - Workshop Recap: Summarize key insights, learnings, and takeaways from the workshop sessions. Highlight notable discussions, activities, and achievements throughout the five-day workshop.
   - Next Steps: Provide guidance on next steps for participants to continue their learning and exploration in the field of hybrid vehicles. Recommend resources, courses, and professional development opportunities for further education and skill development.
   - Closing Remarks: Conclude the workshop with closing remarks, thanking participants, presenters, and organizers for their contributions and participation. Express gratitude for the opportunity to collaborate and learn together in advancing the future of hybrid vehicles.

S.P.B. Patel Engineering College
## NOTICE

Date: 24th February 2022

All Degree Engineering students are hereby informed that, to minimize the gap between academia and industry, the Institute is going to organize an Entrepreneurship and Innovation Course in March 2022. Interested students should provide their names to their respective departments.

Principal

Copy to,

1. All HOD'S -FOR INFORMATION
2. NOTICE BOARD
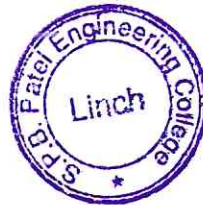
Report on

ENTREPRENEURSHIP AND INNOVATION COURSE

S.P.B. Patel Engineering College

Course Overview

The Entrepreneurship and Innovation Course conducted by S.P.B. Patel Engineering College of Technology in March 2022 was a comprehensive program designed to instill entrepreneurial skills and foster innovation among engineering students.

The course aimed to provide students with a solid foundation in entrepreneurship, equipping them with the knowledge and skills necessary to thrive in the dynamic world of technology and business.

Expert Facilitator

Mr. Dhiren Parekh, an expert facilitator in entrepreneurship and innovation, skillfully guided the course, sharing valuable knowledge and practical insights that enhanced the learning experience for all participants.

Participation Statistics

A total of 124 students enthusiastically participated in the course, highlighting the significant interest among engineering students in acquiring entrepreneurial skills. The diverse group of participants added to the richness of discussions and collaborative learning during the program.

Course Overview

The Entrepreneurship and Innovation Course spanned over 35 hours, providing students with an immersive and in-depth learning experience. The course structure was carefully designed to cover key topics, including ideation, business planning, market analysis, funding strategies, and innovation methodologies.

1. Introduction to Entrepreneurship

   – Definition of entrepreneurship
   – Importance of entrepreneurship in today's world
   – Basic principles of entrepreneurship

2. Understanding Innovation

   – What is innovation?
   – Types of innovation

– Real-life examples of successful innovations

3. Idea Generation and Creativity

– Techniques for creative thinking
– Brainstorming sessions
– Cultivating innovative ideas

4. Business Model Basics

– Introduction to business models
– Key components of a business model
– Examples of successful business models

5. Developing a Business Plan

– Components of a business plan
– Market research and analysis
– Financial planning and projections

6. Risk Management

– Identifying potential risks in entrepreneurship
– Strategies for risk mitigation

7. Leadership and Team Building

– Leadership skills for entrepreneurs
– Importance of effective teamwork
– Team-building exercises

8. Pitching and Communication Skills

– Crafting an effective pitch
– Communication skills for entrepreneurs
– Pitching practice sessions

9. Entrepreneurial Ethics and Social Responsibility

– Ethical considerations in entrepreneurship
– Social responsibility of entrepreneurs

10. Final Project: Business Idea Presentation

– Students present their business ideas
– Feedback and constructive critique

Outcomes

Upon completion of the Entrepreneurship and Innovation Course, participants are expected to have achieved the following outcomes:

➢ Comprehensive Understanding: Attain a clear and comprehensive understanding of the fundamental principles and significance of entrepreneurship.

➢ Innovative Mindset: Cultivate a creative and innovative mindset, enabling participants to generate and nurture novel ideas.

➢ Proficient Business Planning: Demonstrate proficiency in developing robust business plans, incorporating thorough market analysis and financial projections.

➢ Effective Risk Management: Identify potential risks associated with entrepreneurial endeavors and apply effective strategies for risk management.

➢ Leadership and Team Collaboration: Enhance leadership skills and recognize the critical importance of effective teamwork, preparing participants for collaborative ventures in the entrepreneurial landscape.

Conclusion

In conclusion, the Entrepreneurship and Innovation Course conducted by S.P.B. Patel Engineering College in March 2022 has been a resounding success, engaging and benefiting a total of 124 students.

The course accomplished its objectives by providing a comprehensive understanding of entrepreneurship, fostering innovative thinking, and imparting practical business skills. With an emphasis on risk management proficiency, leadership development, and effective teamwork, the course has equipped students with the tools and mindset essential for success in the dynamic landscape of entrepreneurship.

The robust participation and positive outcomes underscore the program's effectiveness in nurturing the entrepreneurial spirit among the student community.

Photographs:

ATTENDENCE SHEET OF STUDENTS

List of Students Participated:

Sr.No	BR_NAME	Enrolment number	Name
1	AUTOMOBILE ENGINEERING	180390102001	GOSWAMI YASHGIRI RAJENDRAGIRI
2	AUTOMOBILE ENGINEERING	180390102002	HUTASHAN PRASAD SAHU
3	AUTOMOBILE ENGINEERING	180390102003	PADH HARSH MANOJBHAI
4	CIVIL ENGINEERING	180390106001	CHAUDHARI GIRISHKUMAR MEMABHAI
5	CIVIL ENGINEERING	180390106006	PANCHAL DARSHIL YOGESHKUMAR
6	CIVIL ENGINEERING	180390106007	PARIKH PRACHI VIPULKUMAR
7	CIVIL ENGINEERING	180390106010	PATEL HANY VIJAYKUMAR
8	CIVIL ENGINEERING	180390106011	PATEL RAJ VISHNUBHAI
9	CIVIL ENGINEERING	180390106012	PATEL RUTVIK RAJENDRAKUMAR
10	CIVIL ENGINEERING	180390106018	SUNSARA JHANVI MAHESHKUMAR
11	CIVIL ENGINEERING	180390106019	SUTHAR KURVABEN GAUTAMKUMAR
12	COMPUTER ENGINEERING	180390107001	BAROT MANAV MAHESHBHAI
13	COMPUTER ENGINEERING	180390107002	CHAUHAN KRUNAL DHARMENDRABHAI
14	COMPUTER ENGINEERING	180390107003	CHAUHAN PRINCY PARESH
15	COMPUTER ENGINEERING	180390107023	PATEL MIHIR PRAVINKUMAR
16	COMPUTER ENGINEERING	180390107024	PATEL MILAN SOMABHAI
17	COMPUTER ENGINEERING	180390107025	PATEL MIT NARANBHAI
18	COMPUTER ENGINEERING	180390107026	PATEL NAMRAKUMAR GOVINDBHAI
19	COMPUTER ENGINEERING	180390107027	PATEL NIRZAREE GOVINDBHAI
20	COMPUTER ENGINEERING	180390107028	PATEL NIYATI KAMLESHKUMAR
21	COMPUTER ENGINEERING	180390107030	PATEL PARTHKUMAR VASUDEVBHAI
22	COMPUTER ENGINEERING	180390107031	PATEL PRINCEKUMAR KANUBHAI
23	COMPUTER ENGINEERING	180390107032	PATEL PRIYANK YOGESHKUMAR
24	COMPUTER ENGINEERING	180390107035	PATEL RUTVIKKUMAR BABULAL
25	COMPUTER ENGINEERING	180390107037	PAWAR ATHARVA VIJAYDEEP
26	COMPUTER ENGINEERING	180390107038	PETHANI HARSH RAJESHBHAI
27	COMPUTER ENGINEERING	180390107039	PRAJAPATI AAYUSH NARENDRABHAI
28	COMPUTER ENGINEERING	180390107040	PRAJAPATI HARSH SHAILESHKUMAR
29	COMPUTER ENGINEERING	180390107043	RABARI JAYESH BHAGWANBHAI
30	COMPUTER ENGINEERING	180390107044	RAJPUT PRUTHVISINH VIRENDRASINH
31	COMPUTER ENGINEERING	180390107045	RAJPUT SEJAL JITENDRASINGH
32	COMPUTER ENGINEERING	180390107046	SAVANI HITAXI DAYABHAI
33	COMPUTER ENGINEERING	180390107047	SHAH DEV NILESHBHAI
34	COMPUTER ENGINEERING	180390107048	SHAH SHRUTIBEN NARESHKUMAR
35	COMPUTER ENGINEERING	180390107049	SHARMA AMITKUMAR MUKESHKUMAR
36	COMPUTER ENGINEERING	180390107050	SIDDHPURA SAGAR NARESHBHAI
37	COMPUTER ENGINEERING	180390107051	SIDDIKI ASFAK NASIMBHAI

Sr.No	BR_NAME	Enrolment number	Name
38	COMPUTER ENGINEERING	180390107052	SONI AKSHAT MUKESH
39	COMPUTER ENGINEERING	180390107053	SUTARIYA KIRTAN MANSUKHBHAI
40	COMPUTER ENGINEERING	180390107055	SUTHAR YASHVIBEN MANUBHAI
41	COMPUTER ENGINEERING	180390107056	SWAMI ANAND BIPINCHANDRA
42	COMPUTER ENGINEERING	180390107057	SWAMI KAMAL JAGDISH
43	COMPUTER ENGINEERING	180390107058	THAKKAR VEDANT PRADIPKUMAR
44	COMPUTER ENGINEERING	180390107059	THESIA JANUSHEE ASHOKBHAI
45	COMPUTER ENGINEERING	180390107060	VAGHASIYA MILAN RASIKLAL
46	COMPUTER ENGINEERING	180390107061	VAGHASIYA RUMIT JITENDRABHAI
47	COMPUTER ENGINEERING	180390107062	SINGH PRACHI
48	ELECTRICAL ENGINEERING	180390109001	ASARI NILESH BHURABHAI
49	ELECTRICAL ENGINEERING	180390109004	DESAI PUNIT AMRUTBHAI
50	ELECTRICAL ENGINEERING	180390109006	JAYSVAL JAYESH BALVANTBHAI
51	ELECTRICAL ENGINEERING	180390109007	MEVADA HARSHIL AMRUTLAL
52	ELECTRICAL ENGINEERING	180390109017	VORA DHARAMKUMAR JAGDISHBHAI
53	ELECTRONICS & COMMUNICATION ENGINEERING	180390111001	PATEL KAUSHALKUMAR SATISHBHAI
54	ELECTRONICS & COMMUNICATION ENGINEERING	180390111002	PATEL KRUNAL CHAMPAKLAL
55	ELECTRONICS & COMMUNICATION ENGINEERING	180390111003	PRAJAPATI KHYATI KANAIYALAL
56	INFORMATION TECHNOLOGY	180390116001	DAVE SHUBHAM DIVYAM
57	INFORMATION TECHNOLOGY	180390116003	DHADUK ISHA PRAKASHBHAI
58	INFORMATION TECHNOLOGY	180390116004	DOSHI ARPAN RAKESHBHAI
59	INFORMATION TECHNOLOGY	180390116005	GAJJAR YASH MITESHBHAI
60	INFORMATION TECHNOLOGY	180390116006	GALA YASHVI BHARATBHAI
61	INFORMATION TECHNOLOGY	180390116007	KALET MAJAHARBHAI SABIRBHAI
62	INFORMATION TECHNOLOGY	180390116008	KATKAR UMESH RAJUBHAI
63	INFORMATION TECHNOLOGY	180390116010	MISHRA HARSHIL SATISHKUMAR
64	INFORMATION TECHNOLOGY	180390116011	NAIR ANUPAM HARIKUMAR
65	INFORMATION TECHNOLOGY	180390116012	PANCHAL JIGISHABEN DASHARATHBHAI
66	INFORMATION TECHNOLOGY	180390116013	PANDIT SHIVANGI JITENDRAKUMAR
67	INFORMATION TECHNOLOGY	180390116014	PATEL AKASHKUMAR HASMUKHBHAI
68	INFORMATION TECHNOLOGY	180390116018	PATEL HARSH NARENDRABHAI
69	INFORMATION TECHNOLOGY	180390116019	PATEL HINAL VIPUL
70	INFORMATION TECHNOLOGY	180390116020	PATEL JAYKUMAR VISHNUBHAI
71	INFORMATION TECHNOLOGY	180390116029	PATEL SMITKUMAR MUKESHBHAI
72	INFORMATION TECHNOLOGY	180390116031	PRAJAPATI SHAILESH NARAYANBHAI
73	CIVIL ENGINEERING	130390106052	SAXENA KARANKUMAR SHAILESHBHAI
74	CIVIL ENGINEERING	130390106056	SHAILAR MEHULKUMAR HASMUKHBHAI
75	MECHANICAL ENGINEERING	140390119063	PATEL JAY SHAILESHBHAI

Sr.No	BR_NAME	Enrolment number	Name
76	AUTOMOBILE ENGINEERING	150390102021	SINGH VIKAS ASHOKKUMAR
77	CIVIL ENGINEERING	150390106017	PATEL UTSAV BHARATBHAI
78	CIVIL ENGINEERING	150390106022	SONI RAJ DEEPAK
79	MECHANICAL ENGINEERING	150390119019	PARMAR VIJAYKUMAR MANGALBHAI
80	MECHANICAL ENGINEERING	150390119045	RAJPUT VISHALKUMAR NATVARSINH
81	COMPUTER ENGINEERING	160390107014	PATEL ADITI MUKESHBHAI
82	MECHANICAL ENGINEERING	160390119002	DAVE DHRUV NITINKUMAR
83	INFORMATION TECHNOLOGY	170390116003	BAROT TIRTH KAMLESHKUMAR
84	MECHANICAL ENGINEERING	170390119005	CHAVDA VINAYAKBHAI JAYANTIBHAI
85	MECHANICAL ENGINEERING	170393119001	BHATT SIDHARTH SUBODH
86	INFORMATION TECHNOLOGY	180390116034	RATHOD PALAK VIJAYKUMAR
87	INFORMATION TECHNOLOGY	180390116045	THAKOR ROSHNIBEN GANESHJI
88	INFORMATION TECHNOLOGY	180390116046	VYAS KRIMA PARAG
89	MECHANICAL ENGINEERING	180390119001	BHALGAMA DILIPBHAI LAVINGBHAI
90	MECHANICAL ENGINEERING	180390119002	MAKWANA NAMRATA DHIRAJBHAI
91	MECHANICAL ENGINEERING	180390119003	MEHTA TAPAN PARESHBHAI
92	MECHANICAL ENGINEERING	180390119004	MODI VISHAL RAJENDRAKUMAR
93	MECHANICAL ENGINEERING	180390119005	PARMAR KEVALYARAJ DEVENDRASINH
94	MECHANICAL ENGINEERING	180390119006	PARMAR SURESHBHAI BHIKHABHAI
95	MECHANICAL ENGINEERING	180390119007	PRAJAPATI HIREN MAHESHKUMAR
96	MECHANICAL ENGINEERING	180390119010	SHAH PREM BRIJESHKUMAR
97	CIVIL ENGINEERING	180393106002	MAKWANA AISHWARYA GOVIND
98	CIVIL ENGINEERING	180393106003	MAKWANA SHARMISHTHA GOVIND
99	AUTOMOBILE ENGINEERING	190393102001	MANSURI ATIR UNISMAHAMAD
100	AUTOMOBILE ENGINEERING	190393102003	SUTHAR BHAUMIKKUMAR RAKESHBHAI
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103	CIVIL ENGINEERING	190393106003	PANDYA MAULIK BHARATBHAI
104	CIVIL ENGINEERING	190393106004	PARMAR AKASHKUMAR JASHVANTSINH
105	CIVIL ENGINEERING	190393106005	PARMAR KRISHA JITENDRAKUMAR
106	CIVIL ENGINEERING	190393106006	PATEL MEETKUMAR RAJESHBHAI
107	CIVIL ENGINEERING	190393106007	RAVAL AASTHA PARESHBHAI
108	CIVIL ENGINEERING	190393106008	THAKAR AANUSHKUMAR JAYENDRAKUMAR
109	COMPUTER ENGINEERING	190393107001	BHAVSAR NISHI ASHVINBHAI
110	COMPUTER ENGINEERING	190393107003	PATEL VISHRUTI KANJIBHAI
111	COMPUTER ENGINEERING	190393107004	TEJ SONI
112	COMPUTER ENGINEERING	190393107005	PRAJAPATI HIMANI SHAMBHUBHAI
113	COMPUTER ENGINEERING	190393107006	RAJPUT ABHISHEKSINGH CHANDRADEOSINGH
114	COMPUTER ENGINEERING	190393107007	SAIYED MOHAMMAD YASIN AHMAD HUSEN
115	COMPUTER ENGINEERING	190393107008	THAKOR SONALBEN RAMSANGJI
116	COMPUTER ENGINEERING	190393107009	ZALA VARSHABA NIRUBHA
117	ELECTRICAL ENGINEERING	190393109001	NAYAK HARDIK PRAVINBHAI
118	INFORMATION TECHNOLOGY	190393116001	PATEL KRISHNA RAJENDRA

Sr.No	BR_NAME	Enrolment number	Name
119	INFORMATION TECHNOLOGY	190393116002	MANVANI POOJA RAMESHBHAI
120	INFORMATION TECHNOLOGY	190393116003	SURBHI SINGH
121	MECHANICAL ENGINEERING	190393119001	DHANDHUKIYA JIGNESHKUMAR LAXMANBHAI
122	MECHANICAL ENGINEERING	190393119002	JADAV YASH PUNAMBHAI
123	MECHANICAL ENGINEERING	190393119004	PANCHAL JAYKUMAR DINESHBHAI
124	MECHANICAL ENGINEERING	190393119005	PARMAR VISHALKUMAR MAHENDRABHAI

Course curriculum:

1. Introduction to Entrepreneurship

Definition of Entrepreneurship:

Entrepreneurship is the dynamic process of creating and managing a venture to exploit an opportunity for profit. It involves the willingness to take risks, innovation, and the ability to organize resources effectively.

Importance of Entrepreneurship in Today's World:

In the contemporary landscape, entrepreneurship plays a pivotal role in economic development, job creation, and fostering innovation. Entrepreneurs drive social change and contribute significantly to the growth and sustainability of economies.

Basic Principles of Entrepreneurship:

Fundamental principles include identifying opportunities, resource optimization, adaptability to change, and a customer-centric approach. Entrepreneurs need to be visionary, resilient, and possess effective problem-solving skills.

2. Understanding Innovation

What is Innovation?

Innovation is the process of introducing new ideas, methods, or products that result in positive change. It can involve improvements to existing practices or the creation of entirely novel solutions to meet evolving needs.

Types of Innovation:

Innovation can manifest in various forms, including product innovation (new or improved products), process innovation (improvements in operations), and business model innovation (changing the way value is delivered).

Real-life Examples of Successful Innovations:

Illustrative examples could include companies like Apple with its iPhone, Tesla in electric vehicles, or Airbnb in the hospitality industry, showcasing how innovation contributes to market success.

3. Idea Generation and Creativity

Techniques for Creative Thinking:

Encouraging divergent thinking through techniques like mind mapping, reverse brainstorming, and challenging assumptions fosters creative thinking essential for entrepreneurial success.

Brainstorming Sessions:

Interactive sessions where participants freely share ideas in a non-judgmental environment, promoting the generation of a wide array of creative solutions.

Cultivating Innovative Ideas:

Encouraging an environment that supports experimentation, learning from failures, and leveraging diverse perspectives to cultivate and refine innovative ideas.

4. Business Model Basics

Introduction to Business Models:

A business model outlines how an organization creates, delivers, and captures value. It encompasses revenue streams, customer segments, channels, and key resources.

Key Components of a Business Model:

Identifying and understanding the key components such as value proposition, customer relationships, revenue streams, and cost structure is crucial for designing a sustainable and effective business model.

Examples of Successful Business Models:

Highlighting cases like the subscription-based model of Netflix, the platform model of Airbnb, or the freemium model of Dropbox to illustrate diverse and successful approaches to business models.

5. Developing a Business Plan

Components of a Business Plan:

A comprehensive business plan includes an executive summary, company description, market analysis, organizational structure, product/service details, marketing strategy, financial projections, and an implementation plan.

Market Research and Analysis:

Conducting thorough market research to understand the target audience, competition, and industry trends is fundamental to developing a business plan that aligns with market needs.

Financial Planning and Projections:

Creating detailed financial forecasts, including income statements, balance sheets, and cash flow statements, to demonstrate the financial viability and sustainability of the business.

6. Risk Management

Identifying Potential Risks in Entrepreneurship:

Recognizing risks associated with market dynamics, competition, financial constraints, and external factors that may impact the success of an entrepreneurial venture.

Strategies for Risk Mitigation:

Developing effective risk mitigation strategies, including diversification, contingency planning, and regular assessments to adapt to changing circumstances.

7. Leadership and Team Building

Leadership Skills for Entrepreneurs:

Leadership in entrepreneurship involves vision setting, decision-making, and motivating a team. Effective leadership is crucial for navigating uncertainties and inspiring collective efforts.

Importance of Effective Teamwork:

Highlighting the collaborative nature of entrepreneurship and the importance of teamwork in pooling diverse skills, perspectives, and strengths toward common goals.

Team-building Exercises:

Engaging participants in practical team-building exercises to foster communication, trust, and synergy within entrepreneurial teams.

8. Pitching and Communication Skills

Crafting an Effective Pitch:

Teaching participants the art of distilling complex ideas into concise, compelling messages that effectively communicate the value proposition, target market, and potential impact of their ventures.

Communication Skills for Entrepreneurs:

Emphasizing the importance of clear and persuasive communication in conveying ideas to investors, customers, and team members, essential for gaining support and building partnerships.

Pitching Practice Sessions:

Providing practical opportunities for participants to refine their pitching skills through simulated pitch sessions, receiving constructive feedback to enhance their delivery and message.

9. Entrepreneurial Ethics and Social Responsibility

Ethical Considerations in Entrepreneurship:

Examining the ethical challenges entrepreneurs may face, such as transparency, fair treatment of employees, and honesty in business practices.

Social Responsibility of Entrepreneurs:

Highlighting the role entrepreneurs play in contributing positively to society, addressing social issues, and incorporating ethical practices into business operations.

10. Final Project: Business Idea Presentation

Students Presenting their Business Ideas:

Culmination of the course where participants present their developed business ideas, showcasing their understanding of entrepreneurship concepts and practical application.

S.P.B. Patel Engineering College
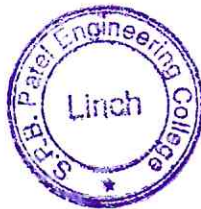
NOTICE

Date: 28th October 2021

All Degree Engineering students are hereby informed that the Institute is going to organize a Project Management Training Program in November 2021.

Interested students should provide their names to their respective departments.

Principal

Copy to,

1. All HOD'S -FOR INFORMATION
2. NOTICE BOARD

Report on
Project Management
S.P.B. Patel Engineering College

Date: November 2021

Duration: 30 hours

Participants: 119

Organizer: S.P.B. Patel Engineering College

Conducted by: Prof. Tausif Shaikh

Introduction:

In November 2021, a comprehensive Project Management Course was conducted, attracting 119 enthusiastic participants eager to enhance their project management skills. The workshop spanned 30 hours, meticulously designed to cover all essential aspects of project management, aiming to equip participants with practical knowledge and strategies applicable across various industries.

Course Structure and Content:

Introduction to Project Management

The course commenced with a thorough exploration of Project Management Fundamentals. Participants delved into the definition and significance of project management, grasping its pivotal role in achieving specific goals within defined constraints. Key concepts such as project lifecycle phases were elucidated, ensuring a solid foundation for subsequent modules.

Project Management Methodologies

Participants were introduced to different project management methodologies, particularly focusing on the comparison between traditional Waterfall and Agile approaches. Through insightful discussions and case studies, attendees gained a nuanced understanding of the advantages and suitability of each methodology across diverse project scenarios

Project Initiation

The importance of meticulous project initiation was emphasized in this module. Participants learned to define project objectives, scope, and stakeholders with precision. Practical exercises were conducted to develop Work Breakdown Structures (WBS), enabling participants to break down complex projects into manageable tasks effectively. Additionally, various project scheduling techniques were explored to equip participants with the skills necessary for meticulous project planning.

Project Planning and Risk Management

In this module, participants delved into the intricacies of project planning and risk management. Resource allocation techniques were discussed in detail, alongside comprehensive risk management strategies encompassing identification, assessment, and response planning. Quality management principles were also introduced, highlighting the importance of maintaining high standards throughout the project lifecycle.

Project Execution and Control

Strategies for seamless project execution and control were elucidated, focusing on effective task management, communication, and collaboration. Participants gained insights into change management processes, conflict resolution techniques, and monitoring project performance using key metrics such as earned value management (EVM) and variance analysis.

Project Closure

The workshop concluded with an exploration of project closure processes, emphasizing the importance of tying up loose ends and capturing valuable lessons learned. Participants learned to conduct thorough project reviews, ensuring continuous improvement and knowledge dissemination for future endeavors.

Methodology:

The workshop employed a diverse range of teaching methodologies, including interactive lectures, group discussions, case studies, and practical exercises. Participants were encouraged to actively engage in discussions, share experiences, and apply learned concepts to real-world scenarios. Hands-on exercises using project management tools and software facilitated experiential learning, ensuring maximum retention of knowledge.

Outcome Assessment:

Participants' understanding and application of project management concepts were assessed through quizzes, assignments, and a final project simulation exercise. This comprehensive assessment strategy ensured that participants had effectively absorbed the course material and were capable of applying their newfound skills in practical scenarios.

Conclusion:

The Project Management Course conducted in November 2021 served as a cornerstone in equipping participants with the essential skills and knowledge required to excel in project management roles. By providing comprehensive insights and practical strategies, the workshop empowered participants to navigate the complexities of project management with confidence and proficiency.

Photographs:

ATTENDENCE SHEET OF STUDENTS

List of Students Participated:

Sr.No	BR_NAME	map_number	Name
1	AUTOMOBILE ENGINEERING	180390102001	GOSWAMI YASHGIRI RAJENDRAGIRI
2	AUTOMOBILE ENGINEERING	180390102002	HUTASHAN PRASAD SAHU
3	AUTOMOBILE ENGINEERING	180390102003	PADH HARSH MANOJBHAI
4	AUTOMOBILE ENGINEERING	180390102004	PANCHAL PARTHKUMAR ASHOKBHAI
5	CIVIL ENGINEERING	180390106011	PATEL RAJ VISHNUBHAI
6	CIVIL ENGINEERING	180390106012	PATEL RUTVIK RAJENDRAKUMAR
7	CIVIL ENGINEERING	180390106013	PATEL URVISHKUMAR DIKSHITBHAI
8	CIVIL ENGINEERING	180390106015	PRAJAPATI MIHIRKUMAR JAGDISHKUMAR
9	CIVIL ENGINEERING	180390106016	RADHANPURA DHRUV DIPAKKUMAR
10	CIVIL ENGINEERING	180390106018	SUNSARA JHANVI MAHESHKUMAR
11	CIVIL ENGINEERING	180390106019	SUTHAR KURVABEN GAUTAMKUMAR
12	COMPUTER ENGINEERING	180390107001	BAROT MANAV MAHESHBHAI
13	COMPUTER ENGINEERING	180390107002	CHAUHAN KRUNAL DHARMENDRABHAI
14	COMPUTER ENGINEERING	180390107003	CHAUHAN PRINCY PARESH
15	COMPUTER ENGINEERING	180390107004	DAXINI BHOOMIBEN BHARATBHAI
16	COMPUTER ENGINEERING	180390107006	HARLALKA ABHIKESH MANOJ
17	COMPUTER ENGINEERING	180390107007	JIVANI DRASHTI BIPINBHAI
18	COMPUTER ENGINEERING	180390107009	KHATRI SHIVANG DEVENDRABHAI
19	COMPUTER ENGINEERING	180390107010	LALA NEHA SANJIVKUMAR
20	COMPUTER ENGINEERING	180390107012	MAKWANA DHRUVI ALPESHBHAI
21	COMPUTER ENGINEERING	180390107013	MEVADA RAVINDRA DILIPBHAI
22	COMPUTER ENGINEERING	180390107015	NAKRANI PRESHA JITUBHAI
23	COMPUTER ENGINEERING	180390107019	PATEL HARSHIL RAJESHBHAI
24	COMPUTER ENGINEERING	180390107025	PATEL MIT NARANBHAI
25	COMPUTER ENGINEERING	180390107026	PATEL NAMRAKUMAR GOVINDBHAI
26	COMPUTER ENGINEERING	180390107035	PATEL RUTVIKKUMAR BABULAL
27	COMPUTER ENGINEERING	180390107037	PAWAR ATHARVA VIJAYDEEP
28	COMPUTER ENGINEERING	180390107038	PETHANI HARSH RAJESHBHAI
29	COMPUTER ENGINEERING	180390107039	PRAJAPATI AAYUSH NARENDRABHAI
30	COMPUTER ENGINEERING	180390107040	PRAJAPATI HARSH SHAILESHKUMAR
31	COMPUTER ENGINEERING	180390107043	RABARI JAYESH BHAGWANBHAI
32	COMPUTER ENGINEERING	180390107044	RAJPUT PRUTHVISINH VIRENDRASINH
33	COMPUTER ENGINEERING	180390107045	RAJPUT SEJAL JITENDRASINGH
34	COMPUTER ENGINEERING	180390107056	SWAMI ANAND BIPINCHANDRA
35	COMPUTER ENGINEERING	180390107057	SWAMI KAMAL JAGDISH

Sr.No	BR_NAME	map_number	Name
36	COMPUTER ENGINEERING	180390107058	THAKKAR VEDANT PRADIPKUMAR
37	COMPUTER ENGINEERING	180390107059	THESIA JANUSHEE ASHOKBHAI
38	COMPUTER ENGINEERING	180390107060	VAGHASIYA MILAN RASIKLAL
39	COMPUTER ENGINEERING	180390107061	VAGHASIYA RUMIT JITENDRABHAI
40	COMPUTER ENGINEERING	180390107062	SINGH PRACHI
41	ELECTRICAL ENGINEERING	180390109001	ASARI NILESH BHURABHAI
42	ELECTRICAL ENGINEERING	180390109004	DESAI PUNIT AMRUTBHAI
43	ELECTRICAL ENGINEERING	180390109006	JAYSVAL JAYESH BALVANTBHAI
44	ELECTRICAL ENGINEERING	180390109007	MEVADA HARSHIL AMRUTLAL
45	ELECTRICAL ENGINEERING	180390109009	PATEL SHUBH BHAVESHBHAI
46	ELECTRICAL ENGINEERING	180390109012	PRAJAPATI JITENDRA CHHATRABHAI
47	ELECTRICAL ENGINEERING	180390109013	PRAJAPATI MITU RAJESHKUMAR
48	ELECTRICAL ENGINEERING	180390109015	THAKOR SUNILJI VINUJI
49	ELECTRICAL ENGINEERING	180390109017	VORA DHARAMKUMAR JAGDISHBHAI
50	ELECTRONICS & COMMUNICATION ENGINEERING	180390111001	PATEL KAUSHALKUMAR SATISHBHAI
51	ELECTRONICS & COMMUNICATION ENGINEERING	180390111002	PATEL KRUNAL CHAMPAKLAL
52	ELECTRONICS & COMMUNICATION ENGINEERING	180390111003	PRAJAPATI KHYATI KANAIYALAL
53	INFORMATION TECHNOLOGY	180390116001	DAVE SHUBHAM DIVYAM
54	INFORMATION TECHNOLOGY	180390116003	DHADUK ISHA PRAKASHBHAI
55	INFORMATION TECHNOLOGY	180390116004	DOSHI ARPAN RAKESHBHAI
56	INFORMATION TECHNOLOGY	180390116005	GAJJAR YASH MITESHBHAI
57	INFORMATION TECHNOLOGY	180390116006	GALA YASHVI BHARATBHAI
58	INFORMATION TECHNOLOGY	180390116007	KALET MAJAHARBHAI SABIRBHAI
59	INFORMATION TECHNOLOGY	180390116008	KATKAR UMESH RAJUBHAI
60	INFORMATION TECHNOLOGY	180390116010	MISHRA HARSHIL SATISHKUMAR
61	INFORMATION TECHNOLOGY	180390116018	PATEL HARSH NARENDRABHAI
62	INFORMATION TECHNOLOGY	180390116019	PATEL HINAL VIPUL
63	INFORMATION TECHNOLOGY	180390116020	PATEL JAYKUMAR VISHNUBHAI
64	INFORMATION TECHNOLOGY	180390116021	PATEL MAITRIBEN RAJENDRAKUMAR
65	INFORMATION TECHNOLOGY	180390116022	PATEL MEETKUMAR SHAILESHBHAI
66	INFORMATION TECHNOLOGY	180390116023	PATEL MESHWA JIGNESHKUMAR
67	INFORMATION TECHNOLOGY	180390116024	PATEL NEEL ALPESHBHAI
68	INFORMATION TECHNOLOGY	180390116025	PATEL NIDHIBEN SHAILESHKUMAR
69	INFORMATION TECHNOLOGY	180390116029	PATEL SMITKUMAR MUKESHBHAI
70	INFORMATION TECHNOLOGY	180390116031	PRAJAPATI SHAILESH NARAYANBHAI
71	CIVIL ENGINEERING	130390106052	SAXENA KARANKUMAR SHAILESHBHAI
72	CIVIL ENGINEERING	130390106056	SHAILAR MEHULKUMAR HASMUKHBHAI
73	MECHANICAL ENGINEERING	150390119019	PARMAR VIJAYKUMAR MANGALBHAI
74	MECHANICAL ENGINEERING	150390119045	RAJPUT VISHALKUMAR NATVARSINH
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76	MECHANICAL ENGINEERING	160390119002	DAVE DHRUV NITINKUMAR

Sr.No	BR_NAME	map_number	Name
77	INFORMATION TECHNOLOGY	170390116003	BAROT TIRTH KAMLESHKUMAR
78	MECHANICAL ENGINEERING	170390119005	CHAVDA VINAYAKBHAI JAYANTIBHAI
79	MECHANICAL ENGINEERING	170393119001	BHATT SIDHARTH SUBODH
80	INFORMATION TECHNOLOGY	180390116034	RATHOD PALAK VIJAYKUMAR
81	INFORMATION TECHNOLOGY	180390116036	RAVAL ANAND NITINKUMAR
82	INFORMATION TECHNOLOGY	180390116037	RAVAL YASH PRAFULKUMAR
83	INFORMATION TECHNOLOGY	180390116038	SAVALIYA KRISHNA HARSUKHBHAI
84	INFORMATION TECHNOLOGY	180390116039	SAVANI ARPITBHAI SAVJIBHAI
85	INFORMATION TECHNOLOGY	180390116040	SAVANI SHREY DHARMESHBHAI
86	INFORMATION TECHNOLOGY	180390116042	APURVA SHETH
87	INFORMATION TECHNOLOGY	180390116043	SOMPURA CHIRAG MANISHKUMAR
88	INFORMATION TECHNOLOGY	180390116044	THAKOR JAYESHJI VISHNUJI
89	INFORMATION TECHNOLOGY	180390116045	THAKOR ROSHNIBEN GANESHJI
90	MECHANICAL ENGINEERING	180390119004	MODI VISHAL RAJENDRAKUMAR
91	MECHANICAL ENGINEERING	180390119005	PARMAR KEVALYARAJ DEVENDRASINH
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108	COMPUTER ENGINEERING	190393107007	SAIYED MOHAMMAD YASIN AHMAD HUSEN
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113	INFORMATION TECHNOLOGY	190393116002	MANVANI POOJA RAMESHBHAI
114	INFORMATION TECHNOLOGY	190393116003	SURBHI SINGH
115	MECHANICAL ENGINEERING	190393119001	DHANDHUKIYA JIGNESHKUMAR LAXMANBHAI
116	MECHANICAL ENGINEERING	190393119002	JADAV YASH PUNAMBHAI
117	MECHANICAL ENGINEERING	190393119004	PANCHAL JAYKUMAR DINESHBHAI

Sr.No	BR_NAME	map_number	Name
118	MECHANICAL ENGINEERING	190393119005	PARMAR VISHALKUMAR MAHENDRABHAI
119	MECHANICAL ENGINEERING	190393119006	PATEL KISHANKUMAR KIRITBHAI

Course curriculum:

Project Management

Introduction to Project Management

1. Project Management Fundamentals

- Definition and Importance of Project Management: Project management is the practice of initiating, planning, executing, controlling, and closing projects to achieve specific goals within defined constraints. It is essential for organizations to effectively manage projects to deliver value to stakeholders, meet deadlines, and stay within budget.
- Key Concepts and Terminology: Introduce fundamental project management terms such as project, program, portfolio, stakeholders, scope, schedule, budget, and deliverables. Ensure participants have a clear understanding of these concepts to build a solid foundation for the rest of the course.
- Overview of Project Management Processes and Phases: Provide an overview of the project management lifecycle, including initiation, planning, execution, monitoring and controlling, and closing phases. Explain the key activities and deliverables associated with each phase.

2. Project Management Methodologies

- Waterfall vs. Agile: Compare and contrast traditional waterfall methodology with agile methodology. Discuss the advantages and disadvantages of each approach and their suitability for different types of projects.
- Roles and Responsibilities: Explain the roles and responsibilities of project managers, project sponsors, project team members, and other stakeholders. Emphasize the importance of effective communication and collaboration among team members.
- Case Studies of Successful Project Management: Analyze case studies of successful project management in various industries such as construction, IT, healthcare, and manufacturing. Identify key success factors and lessons learned from each case study.

3. Project Initiation

- Defining Project Objectives, Scope, and Stakeholders: Discuss the importance of clearly defining project objectives, scope, and stakeholders at the beginning of the project. Emphasize the need for alignment between project goals and organizational objectives.

- Work Breakdown Structure (WBS): Explain the concept of WBS and its role in breaking down the project scope into manageable work packages. Guide participants in developing a WBS for a sample project.
- Project Scheduling Techniques: Introduce techniques such as Gantt charts, network diagrams (PERT/CPM), and critical path analysis for project scheduling. Discuss the advantages and limitations of each technique.

4. Project Execution

- Managing Tasks and Assigning Responsibilities: Explain the importance of task management and role clarity in project execution. Discuss techniques for assigning responsibilities and managing task dependencies.
- Communication and Collaboration Strategies: Discuss strategies for effective communication and collaboration among project team members, stakeholders, and other relevant parties. Emphasize the importance of regular meetings, status reports, and project documentation.
- Tools and Techniques for Tracking Project Performance: Introduce tools and techniques for tracking and managing project performance, such as earned value management (EVM), variance analysis, and project dashboards. Discuss how these tools can help project managers monitor progress and identify potential issues.

Project Planning and Risk Management

1. Resource Allocation and Management

- Resource Allocation Techniques: Discuss different resource allocation techniques such as resource leveling, resource smoothing, and resource optimization. Explain how to balance resource demand with resource availability to ensure project success.
- Resource Management Tools: Introduce project management software tools and techniques for resource management, such as resource calendars, resource histograms, and resource allocation matrices. Discuss their features and functionalities.
- Risk Management: Introduce the concept of risk management and its importance in project planning and execution. Discuss techniques for identifying, assessing, and mitigating project risks. Emphasize the need for proactive risk management to minimize the impact of uncertainties on project outcomes.

2. Risk Management: Identification and Assessment

- Understanding Project Risks: Discuss the different types of project risks, including technical, organizational, environmental, and external risks.

Emphasize the importance of identifying and addressing risks proactively.

- Risk Identification Techniques: Introduce techniques such as SWOT analysis, risk registers, and brainstorming sessions for identifying project risks. Discuss the advantages and limitations of each technique.
- Quantitative and Qualitative Risk Analysis: Explain the difference between quantitative and qualitative risk analysis. Discuss techniques such as probability and impact assessment, sensitivity analysis, and Monte Carlo simulation.

3. Risk Response Strategies

- Developing Risk Response Plans: Discuss techniques for developing risk response plans, including risk avoidance, risk mitigation, risk transfer, and risk acceptance. Emphasize the importance of developing contingency plans to address unforeseen risks.
- Risk Mitigation Strategies: Explain how to implement risk mitigation strategies to reduce the likelihood or impact of identified risks. Discuss techniques such as risk prioritization, risk avoidance, and risk reduction.
- Contingency Planning: Discuss the importance of contingency planning in project management. Explain how to develop contingency plans to address risks that cannot be mitigated or avoided.

4. Quality Management Principles

- Principles of Quality Management: Introduce the principles of quality management, including customer focus, continuous improvement, and stakeholder engagement. Discuss the importance of quality management in achieving project success.
- Quality Planning and Assurance: Discuss the process of establishing quality objectives and standards for a project. Emphasize the importance of defining clear quality criteria and metrics to measure project performance.
- Quality Control Processes: Explain techniques for implementing quality control processes, such as inspections, reviews, and testing. Emphasize the importance of monitoring and measuring project outputs to ensure compliance with quality standards.

Project Execution and Control

1. Project Execution Strategies

- Managing Project Execution: Discuss strategies for managing project execution, including creating project schedules, assigning tasks, and monitoring progress. Emphasize the importance of adhering to project timelines and deliverables.

- Change Management Processes: Explain how to manage changes to project scope, schedule, and budget. Discuss techniques for assessing change requests, obtaining approvals, and communicating changes to stakeholders.
- Conflict Resolution Techniques: Discuss strategies for resolving conflicts and disputes that may arise during project execution. Emphasize the importance of addressing conflicts promptly to prevent them from escalating.

2. Monitoring and Controlling Project Performance

- Project Performance Measurement: Discuss techniques for measuring project performance, such as earned value management (EVM), key performance indicators (KPIs), and balanced scorecards. Emphasize the importance of monitoring progress against project baselines.
- Earned Value Management (EVM): Explain the concept of EVM and its role in measuring project performance. Discuss key EVM metrics such as planned value (PV), earned value (EV), and actual cost (AC).
- Variance Analysis: Discuss techniques for analyzing variances between planned and actual project performance. Explain how to identify and address deviations from project baselines to ensure project success.

3. Project Closure

- Closing Processes and Deliverables: Discuss the activities and deliverables associated with project closure, including obtaining customer acceptance, releasing project resources, and archiving project documentation.
- Lessons Learned and Project Reviews: Explain the importance of conducting project reviews and capturing lessons learned. Discuss techniques for documenting project successes, challenges, and areas for improvement.