2024

# Skill Development Boot-Camp

Birla Vishvakarma Mahavidyalaya



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Skill Development Boot camp





Limited Seats

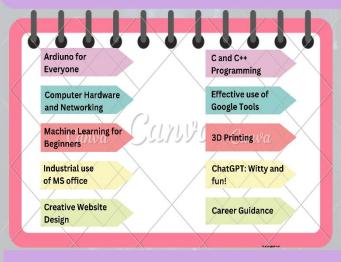
Have you given exams
of 10, 11 or 12th?
Are you looking for your career
in Engineering or Science?
Grab this life time opportunity
Scan/click the code to register

Join today to
learn the
trending
technologies
from our Expert
Professors

कर्मण्येवाधिकारस्ते



Date: 23/04/2024 to 03/05/2024



Organizing Team
Dr.Indrajit N. Patel

(Principal,BVM)

Conveners

Dr.B.C.Goradiya (HOD, EC Dept) Dr.K. N. Brahmbhatt (HOD, IT Dept)

Coordinators

Dr. Ronak Vashi (EC Dept,BVM) Prof. Vishal Polara (IT Dept,BVM)

Registration Fees: 500/-

Certificate will be provided to all the participants who successfully complete the course.

# **Boot-camp**

**Charutar Vidya Mandal's** 

**BIRLA VISHVAKARMA** 

**MAHAVIDYALAYA** 

(ENGINEERING COLLEGE)

[An Autonomous Institution]



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# **Summary Table:**

Title of the event:	Skill Development BootCamp				
	Expert Name		ame	Topic Delivered BY	
Name and Designation of Experts:	1. Arduino for Everyone			Prof. Mayur Sevak	
	2. Programming with Python			Prof. vishal Polara	
	3. Computer Hardware and Networking			Dr. Anish A. Vahora	
	4. Effective Use of Google Tools			Prof. Ghanshyam Rathod	
	5. Machine Learning for Beginners			Dr. Mahaseta Joshi	
	6. 3D Printing			Prof. Akil Jariya	
	7. Industrial Use of MS Office			Dr. Darshan Dalwadi	
	8. ChatGPT: Witty and Fun!			Pro. M. I. Hasan	
	9. Creative Website Design			Dr Robinson Paul	
	10. Career Guidance			Dr. B C Goradiya amd Dr. Keyur	
				Brahmbhatt	
Name of Principal of the Institute:	Dr. Indrajit N Patel				
Department Name of the Institute:	Birla Vishvakarma Mahavidyalaya				
Year/Semester of the Students	10 <sup>th</sup> ,12 <sup>th</sup> amd D2D students				
Date and Time of Visit:	Date: 23-04-2024 to 03-05-2024 , Time: 10:30 AM to 01:00 PM				
Venue Name:	B203 , BVM				
Staff Coordinator's	1	Dr. B. C. Goradiya, Head EC & Dr. Keyur Brahmbhatt			
Name:	2	Prof. Vishal Polara & Dr. Ronak Vashi			
Contact Information	No	Contact No:	Email Id:		
of Staff:	1		Bhargav.goradiya@bvmengineering.ac.in		
	2	9428900107	keyur.brahmbhatt@bvmengineering.ac.in		
	3	9426724335	Ronak.vashi@bvmengineering.ac.in		
TO A LAY OCCUPANT	4	9898434392	Vishal.polara@bvmengineering.ac.in		
<b>Total No of Students:</b>	36				



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## **Schedule of the Event:**

# "Skill Development Boot Camp"

23/04/2024 to 03/05/2024 Time: 11:00 AM to 01: 30 PM

Venue: B203							
No.	Date	Day	Торіс	Expert Name			
1	23/04/2024	Tuesday	Industrial Use of MS Office	Dr. Darshan Dalwadi			
2	24/04/2024	Wednesday	Computer Hardware and Networking	Dr. Anish A Vahora			
3	25/04/2024	Thursday	3D Printing	Prof. Akhil Jaria			
4	26/04/2024	Friday	Creative Website Design	Dr. Robinson Paul			
5	27/04/2024	Saturday	Career Guidance	Dr. Bhargav C. Goradiya			
6	29/04/2024	Monday	Machine Learning for Beginners	Dr. Mahasweta			
7	30/04/2024	Tuesday	Programming with Python	Prof. Vishal Polara			
8	01/05/2024	Wednesday	ChatGPT: Witty and Fun!	Prof. M I Hasan			
9	02/05/2024	Thursday	Effective Use of Google Tools	Prof. Ghanshyam Rathod			
10	03/05/2024	Friday	Arduino for Everyone	Prof. Mayur Sevak			

# **Objectives of the Boot Camp:**

Skill development boot camp tailored for 12th science pass out students, hosted in an engineering college with following key objectives:

1. **Technical Skills Enhancement**: Provide hands-on training and workshops focused on enhancing technical skills relevant to engineering disciplines, such as coding, circuit design, 3D modelling, etc.



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- 2. **Project-Based Learning**: Engage students in collaborative projects that require them to apply theoretical concepts in practical scenarios, fostering creativity, innovation, and critical thinking skills.
- 3. **Career Guidance**: Offer guidance on career paths within engineering and allied fields, including higher education options, job market trends, resume building, and interview preparation.
- 4. **Continuous Learning Culture**: Promote a culture of lifelong learning by introducing students to resources for self-study, online courses, and communities where they can continue to upgrade their skills even after the boot camp concludes.

### **Brief of the Events:**



The total duration of the bootcamp is 10 days starting from Today (23rd April to 3rd May)

The Bootcamp will cover the following topics:

- 1. Arduino for everyone
- 2. Programming with Python
- 3. Computer Hardware and Networking
- 4. Effective use of Google tools
- 5. Machine learning for beginners
- 6. 3D Printing
- 7. Industrial Use of MS Office
- 8. ChatGPT: witty and fun!
- 9. Creative website Design
- 10. Career Guidance

With the presence of Principal Prof. (Dr.) Indrajit N. Patel for his continuous motivation.



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Day-1:

Expert: Dr. Darshan Dalwadi

**Topic: Industrial Use of MS Office.** 

Dr. Darshan explained the importance of different Microsoft Office tools and also conducted hands-on activities during the boot camp.

The majority of attendees were 12th pass-outs and aspiring engineering students who were pleased with Dr. Darshan's teaching approach.





Day-2:

Expert: Dr. Anish Vahora.

Topic: "Computer Hardware and Networking,"

covering the following topics during the session:

#### 1. Computer Hardware:

- Components: CPU, GPU, RAM, motherboard, storage devices (HDD, SSD), power supply unit (PSU), etc.
- Peripheral devices: keyboard, mouse, monitor, printer, etc.
- Architecture: How hardware components work together.

#### 2. Networking:

- Types of networks: LAN (Local Area Network), WAN (Wide Area Network), WLAN (Wireless Local Area Network), etc.
- Networking devices: router, switch, hub, modem, etc.





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**Day-3:** 

Expert: Prof. Akil Jariya

**Topic: 3D printing and its applications** 

He had discussed and given demonstration on "," he has also covered the following topics during the session:

- 1. Basics of 3D Printing/Rapid Protopyping
- 2. Classification of various 3D Printing techniques
- 3. Process parameters
- 4. Application and scope of Rapid Prototyping
- 5. Demonstration of 3D Printing Process

**Day-4:** 

**Expert: Dr. Robinson Paul** 

**Topic: Website Designing** 

How to create a professional-looking website using Wix without any coding. A total of 36 participants from 12 science likely to-be graduates, were happy and excited to create their first own website.





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### **Day 5:**

Expert: Dr. Bhargav Goradiya & Dr. Keyur Brahmbhatt

### **Topic:**

### Carrier Couselling and Guidance.

The seminar was inaugurated by Principal Sir, who welcomed all the parents and students and briefed them about the numerous opportunities available for 12th science students.

Covered the following points:

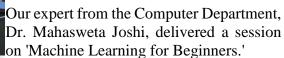
- 1. How to select an institute
- 2. Role of parents
- 3. Skills required for engineering education
- 4. How to improve analytical and logical skills
- 5. JEE mains and advanced examinations.

Dr. Keyur Brahmbhatt, another expert at the event, shared information about various disciplines available after 12th science for building a career.

**Day -6:** 

Expert: Dr. Mahasweta Joshi

Topic: 'Machine Learning for Beginners



A total 32 participants were present and gained insight into the importance of machine learning and its various applications, providing hands-on experience with tools also.





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**Day-7:** 

**Expert: Prof. Vishal Polara** 

**Topic:** "Programming in Python"

Conducted a hands-on session on the programming language.

Additionally, we arranged visits to various Centers of Excellence (CoEs) in our college, focusing mainly on Geo-Spatial, TRS, ELARC, and Geo-Cell. We are thankful to Prof. Jayesh Prajapati, Prof. Ashish Thakkar, and Dr. J M Rathod for providing insights into these CoEs.



**Day-8:** 

**Expert: Prof. M I Hasan** 

**Topic: ChatGPT Witty and Fun!!** 

Expert from the Computer Department, who delivered an insightful session on ChatGPT.

Students gained insights into ChatGPT and its backend processes, received hands-on training on effective usage, and explored free software/tools to enhance learning beyond the curriculum.





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Day-9:

**Expert: Prof. Mayur Sevak** 

**Topic: Arduino for everyone** 

Following topics are covered:

- 1) Introduction to Microcontrollers
- 2) Fundamentals of Arduino programming
- 3) Real-time temperature sensing with Arduino
- 4) Arduino with peripherals: switches, LEDs, potentiometer

**Day-10:** 

**Expert: Prof. Ghanshyam Rathod** 

Topic: Effective Use of Google Tools,"

The hands-on session was fantastic, and we even had a valedictory function to wrap it up On a final session of our bootcamp " and covered essential topics on google tool such as:

- Google Search Techniques
- Google Drive
- Google Calendar
- Google Docs, Sheets, and Slides
- Google Keep
- Google Workspace (formerly G Suite)





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## Valedictory of the Event:

With gratitude and pride, we celebrate the successful completion of transformative Skill Development Boot Camp program. We extend our heartfelt appreciation to Dr. Indrajit Patel for their unwavering support encouragement throughout journey.

A big shoutout to all our esteemed Experts for sharing their invaluable insights and expertise with students.

### **Press-Notes of the event:**

# બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે સ્કિલ કેવલપમેન્ટ બૂટકેમ્પ ચોજાચો



સંચાલિત બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે SSIP,

#### લવાલ ગામે નવચંડી યજ્ઞ યોજાશે

તા.૧૦.૦૫.૨૪. ને શુક્રવાર ના રોજ ગામ લવાલ તા.વસો મા પ્રસિદ્ધ શ્રી ચેહર મેલડી માતાજી ના મંદિરે માતાજી નો ૧૩ માં પાટોત્સવ નિમિતે માતાજી ની નવચંડી યજ્ઞ તથા માતાજી ની ધજા બદલવાની તથા રાત્રે માતાજી ની રમેલ રાખેલ છે ને સાજે મહાપ્રસાદી રાખેલ છે તો માતાજી ના દરેક

વિદ્યામંડળ | IIC તથા વિજ્ઞાન ગુર્જરી | વર્તમાન અંતર્ગત દસ દિવસીય સ્કિલ ડેવલપમેન્ટ બૂટકેમ્પ યોજાયો. જેના સમાપન સમારોહમાં સંસ્થાના પ્રિન્સિપાલ ડાં. ઇંદ્રજિત એન. પટેલ, ડાં. ભાર્ગવ ગોરડિયા, ર્ડા. કેયુર બ્રહ્મભટ, ર્ડા. રોનક વશી, પ્રો. વિશાલ પોલર ઉપસ્થિત રહ્યાં edl.

આ પ્રસંગે સંસ્થાના પ્રિન્સિપાલ ડૉ. ઇંદ્રજિત એન. પટેલે જણાવ્યું હતું કે ઉપરોક્ત સ્કિલ ડેવલપમેન્ટ બૂટકેમ્પનો મૂળભૂત ઉદ્દેશય ઘોરણ ૧૨ સાયન્સ ના વિદ્યાર્થીઓને

સમય टेडनोबोिकडब ट्रेन्डसथी પરિચિત કરવાનો તથા વિદ્યાર્થીઓ ને તે વિષય પર હેન્ડસઓન ટેનિંગ આપવાનો હતો.

नया पडहार ઇન્ટરનેટ ઉપર વાંચવા માટે ક્લિક કરો nayapadkar.in

# બિરલા વિશ્વકર્મા મહવિદ્યાલય ખાતે સ્કિલ ડેવલપમેન્ટ બૂટકેમ્પ ચોજાચો



ચારુતર વિદ્યામંડળ ના અધ્યક્ષ તથા સીવીએમ યુનિવર્સીટી ના પ્રેસિડેન્ટ એન્જી નીયર ભીખુભાઇ પટેલ ના વડપણ તથા માર્ગદર્શન હેઠળ ચારુતર વિદ્યામંડળ સંચાલિત બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે SSIP,IIC તથા વિજ્ઞાન ગુર્જરી અંતર્ગત દસ દિવસીય સ્કિલ ડેવલપમેન્ટ બૂટકેમ્પ યોજાયો. જેના જેના સમાપન સમારોહ માં સંસ્થા ના પ્રિન્સિપાલ ડૉ.ઇંદ્રજિત એન.પટેલ. હે.ભાર્ગવ ગોરડિયા (પ્રોગ્રામ કોર્ડીનેટર તથા હેડ, ઇસી (પ્રાંગામ કાંડાનંટર તથા હડ, ઇસા એન્જી), ડૉ. કેયુર બ્રહ્મભક્ર (પ્રોગ્રામ કોર્ડીનેટર તથા હેડ, આઈ.ટી એન્જી), ડૉ. રોન ક વશી (પ્રોગ્રામ કોર્ડીનેટર), પ્રો,વિશાલ પોલરા(પ્રોગ્રામ કોર્ડીનેટર) ઉપસ્થિત રહ્યાં હતા. આ પ્રસંગે સંસ્થા ના પ્રિન્સિયાલ ડો.ઈદ્રજિત

લર્નિંગ ફોર બિગિનર્સ, ક્રિએટિવ વેબસાઈટ ડિઝાઇન,પ્રોગ્રાર્ભિંગ વિથ પાયથોન, ઇફેકટીવ યુઝ ઓફ ગૂગલ ટૂલ્સ, 3D પ્રિન્ટિંગ,ચેટ જીપીટી: વિદી એન્ડફન, કરીઅર ગાઈડન્સ તથા આર્ડયૂનો કોર એવરીવન નો સમાવેશ કરવામાં આવ્યો હતો. હે.કેયુર બ્રહ્મભ્દ એ એન.પટેલે જણાવ્યું હતું કે

હતો .

બૂટકેમ્પ નો મૂળભૂત ઉદેશ્ય ધોરણ ૧૨ સાયન્સ ના વિષાર્થીઓ ને વર્તમાન સમય ના ટેક્નોલોજિકલ પ્રોફેશનલ સ્કિલ ડેવલપ કરવામાં મદદરૂપ નીવડશે. ઉપરોક્ત સ્કિલ ડેવલપમેન્ટ બૂટકેમ્પ માં એક્સપર્ટ તરીકે ડો. દર્શન દલવાડી, ડૉ.અનીશ વ્હોરા,પ્રો.અકીલ જારીયા, ડૉ. રોબિન્સન પૉલ,ડૉ. ટ્રેન્ડસ થી પરિચિત કરવાનો તથા . વિધાર્થીઓ ને તે વિષય પર હેન્ડસઓન ટ્રેનિંગ આપવાનો મહાર્યતા જોશી,ડો.ભાર્ગવ ગોરડિયા, ડો.કેયુર બ્રહ્મભક્ષ્ટ, પ્રો.મોસીન હસન,પ્રો.યનશ્યામ રાઠોડ તથા પ્રો.મયુર એમ.સેવક . તે. ભાર્ગવ ગોરડિયા એ સિલ ડેવલપમેન્ટ બૂટકેમ્પ ની રૂપરેખા આપતા જલાવ્યું હતું કે ઉપરોક્ત કેમ્પ માં કોમ્પ્યુટર હાર્ડવેર એન્ડ નેટવર્કિંગ, ઇન્ડસ્ટ્રીઅલ યુઝ ઓફ માઈકોસોક્ટ ઓફિસ, મશીન ઉપસ્થિત રહ્યા હતા. ઉપરોક્ત પ્રસંગે વિષાર્થીઓ એ પ્રતિભાવ આપતા જણાવ્યું હતું કે વેકેશન ના સમય દરમ્યાન ઉપરોક્ત ટ્રેનિંગ તેમની ટેક્નિકલ સ્કિલ ડેવલપ કરવામાં મદદરૂપ સાબિત થઈ છે તથા બૂટકેમ્પ ના દરેક વિષય ઉપયોગી માહિતી પ્રદાન કરનારા તથા રસપ્રદ નીવડવા છે. આ પ્રસંગે ચારુતર વિદ્યામંડળ ના અધ્યક્ષ એન્જીનીયર ભીખુભાઇ પટેલ તથા અન્ય હોદ્દેદારો એ જણાવ્યું હતું કે ઉપરોક્ત બૂટકેમ્પ એ વિષાર્થીઓ ને સ્નાતક કથા ના માનેસ્થા પાઠવી હતી



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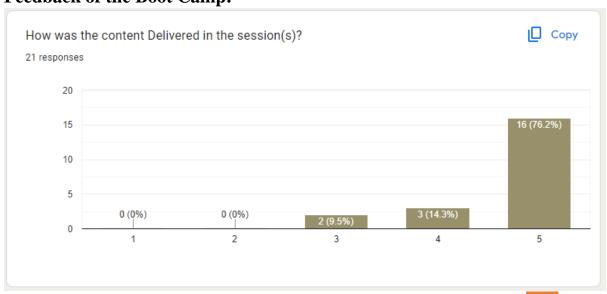
### **Outcome of the Event:**

The overall outcomes of the skill development boot camp encompass a broad range of skills and knowledge that participants would gain throughout the program

- 1. **Diversified Skill Set**: Participants will acquire a diverse set of skills spanning various domains including electronics, programming, computer hardware, software applications, data analysis, machine learning, 3D printing, web design, and career development.
- Hands-on Experience: The boot camp provides hands-on experience through practical sessions, workshops, and projects, enabling participants to apply theoretical knowledge to real-world scenarios.
- 3. **Problem-Solving Abilities**: Attendees will develop problem-solving abilities by tackling challenges encountered during the course, whether it's troubleshooting hardware issues, debugging code, or optimizing machine learning models.
- 4. **Critical Thinking and Creativity**: The boot camp fosters critical thinking and creativity by encouraging participants to explore innovative solutions, experiment with new technologies, and think outside the box in designing projects and solving problems.
- 5. Career Readiness: Attendees will gain insights into various career paths within engineering and technology fields, develop job-related skills, receive guidance on resume building, networking, and interview techniques, thereby enhancing their employability.

Overall, the course aims to empower participants with the knowledge, skills, and confidence to succeed in their academic pursuits, professional endeavours, and personal growth in the rapidly evolving field of engineering and technology.

**\*** Feedback of the Boot Camp:

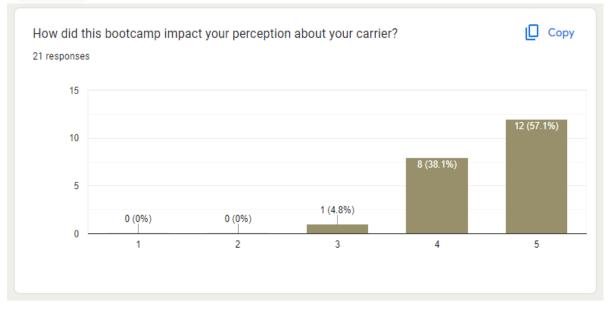


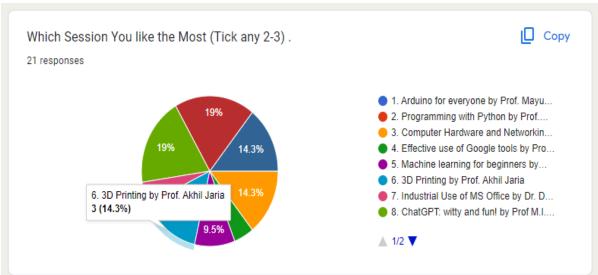


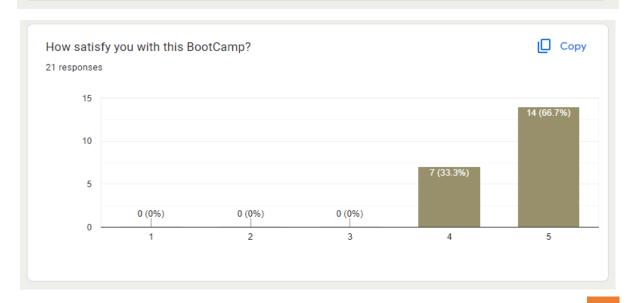
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## **Feedback/Comments received from Participants:**

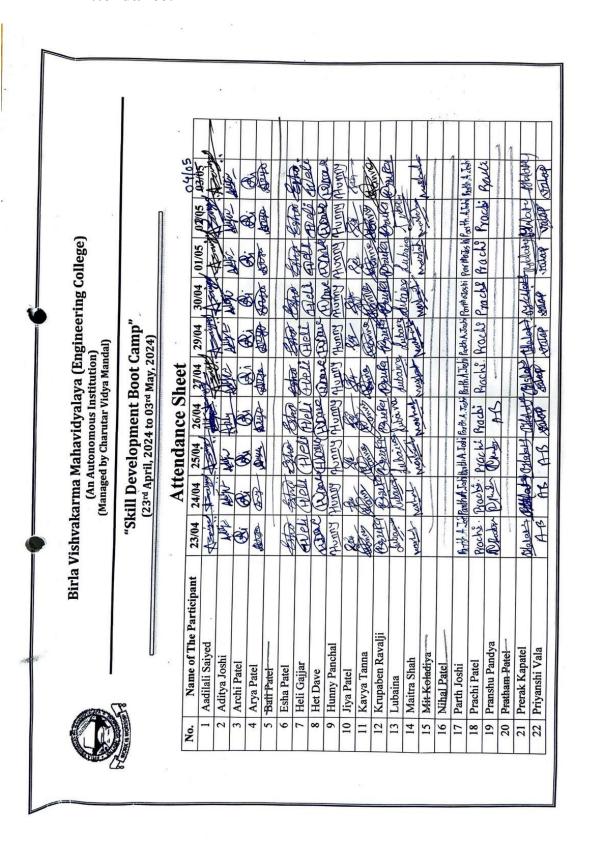
- 1. It was an informative and very knowledgeable boot camp. We were able to learn new things and connect with like-minded people.
- 2. This boot camp will help us select a field in engineering. I really appreciate the faculty for their guidance.
- 3. It was a good experience and very helpful for our future.
- 4. Overall, it was a very nice experience. I learned many things and gained insight into how every domain of engineering works. It was indeed helpful for field selection.
- 5. Please arrange an aptitude test based on which we may select the branch.
- 6. From my own experience, I can confidently state that the ChatGPT, web design, machine learning, and career guidance sessions were particularly informative and engaging. On the other hand, I found the sessions on computer hardware, Arduino, and MS Office to be less captivating. The computer hardware lecture had a strong theoretical focus and would have been more valuable with greater interaction with the equipment.
- 7. It was a wonderful experience being part of this boot camp. The lectures were easy to understand, practical, and helpful for me. If the lectures were more in-depth, it would be even better. Apart from that, "Thank you to all BVM faculties ©."
- 8. No suggestions, everything delivered during the 10 days is perfect for us.
- 9. Thank you for such an amazing boot camp. It was really fun attending this. It also provided us ample knowledge and learning.



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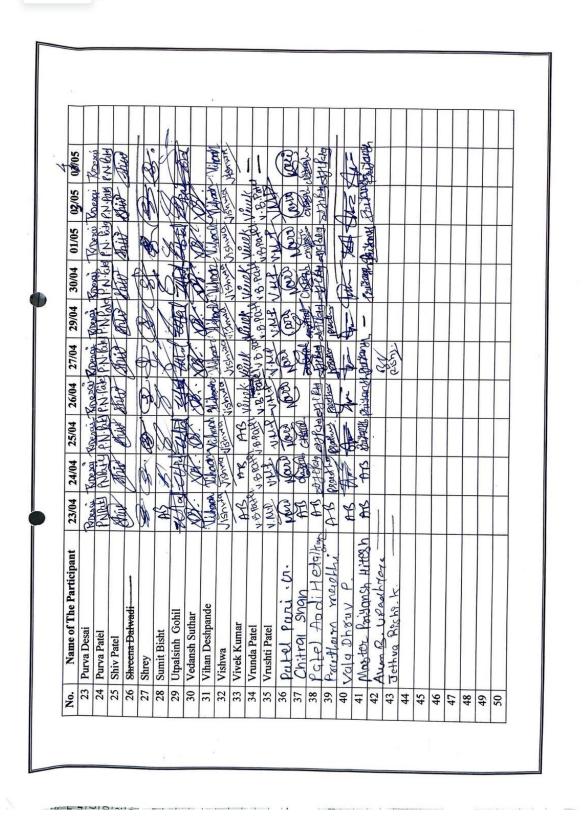
## **Attendance:**





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