



## Online Transcript

<b>Prog./Branch</b>	<b>B TECH (HONS) COMPUTER SCIENCE &amp; ENGINEERING (IOT AND INTELLIGENT SYSTEM)</b>
<b>Reg No</b>	<b>219311046</b>
<b>Name</b>	<b>LOVE LAKHWANI</b>
<b>Semester/Year</b>	<b>III</b>
<b>GPA</b>	<b>9.89</b>
<b>Credit Earned</b>	<b>28</b>
<b>Total Credit</b>	<b>28</b>

S. No.	Course Code	Course Name	Academic Session	Credits	Grade
1	BB0025	VALUE, ETHICS AND GOVERNANCE	JUL-NOV 2022	2	A
2	IS2101	DIGITAL DESIGN AND COMPUTER ARCHITECTURE	JUL-NOV 2022	4	A+
3	IS2102	DATA COMMUNICATIONS	JUL-NOV 2022	4	A+
4	IS2103	DATA STRUCTURES & ALGORITHMS	JUL-NOV 2022	4	A+
5	IS2104	OBJECT ORIENTED PROGRAMMING	JUL-NOV 2022	4	A+
6	IS2105	PYTHON PROGRAMMING	JUL-NOV 2022	3	A+
7	IS2130	DATA STRUCTURES & ALGORITHMS LAB	JUL-NOV 2022	1	A
8	IS2131	OBJECT ORIENTED PROGRAMMING LAB	JUL-NOV 2022	1	A+
9	IS2132	PYTHON PROGRAMMING LAB	JUL-NOV 2022	1	A+
10	IS2170	PROJECT BASED LEARNING-1	JUL-NOV 2022	1	A+
11	MA2101	ENGINEERING MATHEMATICS III	JUL-NOV 2022	3	A+

### NOTE & EXPLANATION:

- This is a computer generated provisional grades statement hence does not require signature and seal for verification refer to original grade report card.
- The concerned authority of the university shall have the right to make necessary correction.
- Abbreviations : DT = Detained, F = Failed/Absent, I = Incomplete, S=Satisfactory, U=Unsatisfactory .
- In case of any error in this statement of grades it should be reported within 15 days.

Date: 29/01/2024

# LOVE LAKHWANI

Software Developer ~ Engineer

## SUMMARY

Hi, I'm Love Lakhwani, a student passionate about IoT and IS. I specialize in Python web development, particularly Django and Flask, and the MERN stack. I enjoy blending these skills in projects that bridge the physical and digital worlds, always seeking innovation and staying ahead in these dynamic fields.

## PROJECTS

Django,Iot,OpenCv **Smart Entry System**



I developed an Intelligent Entry Management System using IoT and Number Plate technology, enhancing security and efficiency. By utilizing smart cameras and sensors and django for UI. Efficient Easily Implements

Rfid,Django,Iot **Portable Rfid Event Flow**



A sleek solution marrying RFID tech, NodeMCU, and Django. From events to classrooms, it ensures precise attendance with a user-friendly edge. Simplify tracking, elevate efficiency, and empower event organizers effortlessly.

React,Express.js,  
MongoDB,Git **ERP Management Software**



Developed a web application for the Department of CCE using React, Express.js, and MongoDB. The project includes user authentication and file upload functionality, exploring storage solutions like Amazon S3. Utilized Git for version control, including branch management and commits.

AI,Python,Iot **Automated Security System**



Implemented a Python-based Security System. This system captures and emails images upon detecting new objects within the camera's view, enhancing real-time surveillance and alert capabilities.

## QUALIFICATION

2019 **Sacred Heart Convent Hr Sec School , Mathura**  
ICSE Board Percentage 89 %

School Class X th

2021 **St Paul Senior Sec School , Mathura**  
CBSE Board Percentage 88%

School Class XII th

2021-2025 **Manipal University Jaipur**  
Btech (Hons) in CSE Current CGPA 9.42

University

## CERTIFICATION

October 2021 **Web Development**  
• The Complete Junior to Senior Web Developer Road Map by Andrei Neagoie

Udemy

June 2023 **Python Development**  
• Python Mega course Learn Python in 60 Days,Build 20 Apps by Ardit Sulce

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March 2023 **Linux**  
• System Administration

Red Hat

## ACHIEVEMENTS

December 2023 **Published 4 patents, demonstrating innovation and expertise in Internet of things.**

January 2024 **Published a conference paper in International Conference on Computation of Artificial Intelligence & Machine Learning ICCAIML, 2024**

January 2024 **Successfully presiding over InSell(International Student Cell), fostering cultural exchange and achieving increase in international student engagement.**

2022,2023 **Received the Dean's Excellence Award twice for consistently ranking in the top 10% of the class, highlighting academic excellence and commitment to excellence.**

portfolio

lakhwanilove@gmail.com

+91 81 7106 2253

github.com/lakhwaniji

Mathura, India

www.linkedin.com/in/love-lakhwani

## SKILLS

**Languages:** React, SQL, Python, JavaScript, HTML, C++, Css ,Js.

**Technologies:** Git ,GitHub ,MERN ,Django ,Flask ,OpenCV ,IOT.



**To Whom It May Concern**

I am writing this letter in enthusiastic support of Mr. Ritvik Garg, who is applying for the MITACS GLOBALINK RESEARCH INTERNSHIP. I have close contact with Mr. Garg as his Professor and Director of the Department for over two years. Throughout my interactions with Mr. Garg, I have been consistently impressed by his exceptional qualities and commitment towards his work. He possesses exceptional research and programming skills, which distinguish him prominently from his contemporaries. He consistently shows strong work ethic, attention to detail, and adept problem-solving skills. He approaches his studies with a blend of honesty, curiosity, intelligence, and a positive learning attitude.

In our discussions on Computer Science research, Mr. Garg displayed a genuine enthusiasm for exploring recent advancements. His valuable experience in areas such as machine learning and IoT, along with the publication of two papers, will undeniably serve as an asset in his future endeavours. Demonstrating unwavering dedication, Mr. Garg is a responsible individual who consistently excels in his duties, showcasing himself as an exceptional student. Moreover, I had the privilege of supervising Mr. Garg for two course projects. In one project, he concentrated on creating a digital stethoscope for murmur detection, employing machine learning algorithms and IoT applications. For another project, he dedicated himself to develop an apartment management system using MySQL, JavaScript, and various programming languages. Remarkably, he completed the research and report well in advance of the deadline. Despite his notable academic accomplishments, Mr. Garg remains actively engaged in extracurricular pursuits. He holds the position of Managing Director at PANACEA, the Technical Club at Manipal University Jaipur.

If you seek a candidate with a proven track record of success, Mr. Garg is an excellent choice. I hold him in the highest regard both personally and professionally, and I am confident he will bring his unique energy, optimism, passion, and creativity to your program.

In conclusion, I wholeheartedly recommend Mr. Ritvik Garg for the MITACS GLOBALINK RESEARCH INTERNSHIP. For any further inquiries, please feel free to contact me.

Sincerely,

Dr. V S Dhaka  
Professor and Director  
School of Computer & Communication Engineering,  
Mobile: +91- 95301 83247  
Email: vijaypalsingh.dhaka@jaipur.manipal.edu

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**Technologies:** Git ,GitHub ,MERN ,Django ,Flask ,OpenCV ,IOT.

WL

Electronic Reservation Slip (ERS)-Normal User

WL



Booked from

MATHURA JN (MTJ)

Start Date\* 23-Mar-2023

Boarding At →

MATHURA JN (MTJ)

Departure\* 23:15 23-Mar-2023

To

LUCKNOW NR (LKO)

Arrival\* 06:55 24-Mar-2023

PNR

8301075404

Train No./Name

13238/KOTA PNBE EXP

Class

THIRD AC (3A)

Quota

GENERAL (GN)

Distance

404 KM

Booking Date

18-Mar-2023 15:09:05 HRS

Passenger Details

#	Name	Age	Gender	Booking Status	Current Status
1.	INDRAMOHA	45	M	RLWL/30	RLWL/15

Acronyms:

RLWL: REMOTE LOCATION WAITLIST

PQWL: POOLED QUOTA WAITLIST

RSWL: ROAD-SIDE WAITLIST

**Transaction ID: 100004039139014**

IR recovers only 57% of cost of travel on an average.

Payment Details

Ticket Fare	₹ 680.00
IRCTC Convenience Fee (Incl. of GST)	₹ 35.40
Total Fare (all inclusive)	₹ 715.40

PG Charges as applicable (Additional)



IRCTC Convenience Fee is charged per e-ticket irrespective of number of passengers on the ticket.

\* The printed Departure and Arrival Times are liable to change. Please Check correct departure, arrival from Railway Station Enquiry or Dial 139 or SMS RAIL to 139.

No Linen will be provided in AC Economy (3E) class.

- This ticket is booked on a personal User ID, its sale/purchase is an offence u/s 143 of the Railways Act, 1989.
- Prescribed original ID proof is required while travelling along with SMS/ VRM/ ERS otherwise will be treated as without ticket and penalized as per Railway Rules.

**Indian Railways GST Details:**

Invoice Number: PS23830107540411 Address: Indian Railways New Delhi

**Supplier Information:**

SAC Code: 996421 GSTIN: 07AAAGM0289C1ZL

**Recipient Information:**

GSTIN:	NA	Address:	
Name:	NA		
Taxable Value:	647		
CGST Rate:	2.5%	CGST Amount:	0.0
SGST/UGST Rate:	NA	SGST/UGST Amount:	NA
IGST Rate:	5.0%	IGST Amount:	32.35

**Total Tax:** 32.35

**Place of Supply:** Uttar Pradesh(9) **State Name/Code of Supplier:** Delhi/DL

**INSTRUCTIONS:**

1. Prescribed Original ID proofs are:- Voter Identity Card / Passport / PAN Card / Driving License / Photo ID card issued by Central / State Govt. / Public Sector Undertakings of State / Central Government ,District Administrations , Municipal bodies and Panchayat Administrations which are having serial number / Student Identity Card with photograph issued by recognized School or College for their students / Nationalized Bank Passbook with photograph /Credit Cards issued by Banks with laminated photograph/Unique Identification Card "Aadhaar", m-Aadhaar, e-Aadhaar. /Passenger showing the Aadhaar/Driving Licence from the "Issued Document" section by logging into his/her Digilocker account considered as valid proof of identity. (Documents uploaded by the user i.e. the document in "Uploaded Document" section will not be considered as a valid proof of identity).
2. PNRs having fully waitlisted status will be dropped and automatic refund of the ticket amount after deducting the applicable CLERKAGE by Railway shall be credited to the account used for payment for booking of the ticket. Passengers having fully waitlisted e-ticket are not allowed to board the train. However, the names of PARTIALLY waitlisted/confirmed and RAC ticket passenger will appear in the chart and will be allowed to board the train.
3. Passengers travelling on a fully waitlisted e-ticket will be treated as Ticketless.
4. Obtain certificate from the TTE /Conductor in case of (a) PARTIALLY waitlisted e-ticket when LESS NO. OF PASSENGERS travel, (b)A.C FAILURE, (c)TRAVEL IN LOWER CLASS. This original certificate must be sent to GGM (IT), IRCTC, Internet Ticketing Centre, IRCA Building, State Entry Road, New Delhi-110055 after filing TDR online within prescribed time for claiming refund.
5. In case, on a party e-ticket or a family e-ticket issued for travel of more than one passenger, some passengers have confirmed reservation and others are on RAC or waiting list, full refund of fare, less clerkage, shall be admissible for confirmed passengers also subject to the condition that the ticket shall be cancelled online or online TDR shall be filed for all the passengers upto thirty minutes before the scheduled departure of the train.
6. In case train is late more than 3 hours, refund is admissible as per railway refund rules only when TDR is filed by the user before the actual departure of the train at boarding station and passenger has not travelled.
7. In case of train cancellation on its entire run, full refund is granted automatically by the system. However, if the train is cancelled partially on its run or diverted and not touching boarding/destination station, passengers are required to file online TDR within 72 hours of scheduled departure of the train from passengers boarding station.
8. Never purchase e-ticket from unauthorized agents or persons using their personal IDs for commercial purposes. Such tickets are liable to be cancelled and forfeited without any refund of money, under section (143) of the Indian Railway Act 1989. List of authorized agents are available on [www.irctc.co.in](http://www.irctc.co.in) under 'Find NGet Agents' option.
9. For detail, Rules, Refund rules, Terms & Conditions of E-Ticketing services, Travel Insurance facility etc. Please visit [www.irctc.co.in](http://www.irctc.co.in)
10. While booking this ticket, you have agreed of having read the Health Protocol of Destination State of your travel. You are again advised to clearly read the Health Protocol advisory of destination state before start of your travel and follow them properly.
11. The FIR forms are available with on board ticket checking staff, train guard and train escorting RPF/GRP staff.
12. Variety of meals available in more than 1500 trains. For delivery of meal of your choice on your seat log on to [www.ecatering.irctc.co.in](http://www.ecatering.irctc.co.in) or call 1323 Toll Free. For any suggestions/complaints related to Catering services, contact Toll Free No. 1800-111-321 (07.00 hrs to 22.00 hrs)
13. National Consumer Helpline (NCH) Toll Free Number: 1800-11-400 or 14404
14. You can book unreserved ticket from UTS APP or ATVMs (Automatic Ticket Vending Machines) located in Railway Stations.
15. VERIFY AADHAAR: AADHAAR IS AN EASILY VERIFIABLE DIGITAL IDENTITY. The information(Name, Address etc.) available on all forms of Aadhaar(Aadhaar letter, PVC card, mAadhaar and eAadhaar), can easily be verified by scanning the QR code available on them. Use QR code scanner available on mAadhaar App or Aadhaar QR code Scanner. Download Aadhaar QR Code Scanner or mAadhaar App from Google Play store.
16. AADHAAR UPDATE: If your Aadhaar was assigned ten years back and has not been updated then it is recommended that you may revalidate it by uploading your Proof of Identity and Proof of Address documents. With an updated Aadhaar, you may easily avail many Government and non government benefits & services. For any assistance / query, visit [uidai.gov.in](http://uidai.gov.in), call us at 1947 (Toll Free) or email to [help@uidai.gov.in](mailto:help@uidai.gov.in)

Contact us on: - care@irctc.co.in OR 24\*7 Hrs Customer Support at 14646 OR 0755-6610661, 0755-4090600



अगर आप ऑनलाइन ठगी के शिकार हैं  
If you are a victim of cybercrime



**Helpline No. 1930**  
and register your complaint at  
[www.cybercrime.gov.in](http://www.cybercrime.gov.in)

हर वोट है जरूरी।  
भताता के रूप में आज ही पंजीकरण करवाएं।  
**Every Vote matters.**  
Enroll yourself as a voter today!



Visit [www.nvap.in](http://www.nvap.in)  
Download Voter HelpLine App

For any assistance  
**1950**

## **TITLE: IoT Based Lab Component Issue/Submit Record Keeping System**

### **ABSTRACT** (max 150 words)

In IoT Labs students perform experiments with IoT devices like Arduino, Raspberry Pi, sensors, and actuators. For record keeping lab technician do the manual entry of all the components issued to student and after the completion of experiments student submit them back. Components are very small in size and if not handled properly items may lost easily. Manual entry of all the components issued to students and to check them back, is a time-consuming event. The present invention problem is addressed in the proposed Arduino based lab component record set-up for issue and submit. When students are accessing the lab first time, they will be registered with Student ID card, and they must submit their initial information's. Issued components will be registered with student's name and once he submits all the components back, account will reflect permission to leave. This system will help the lab technician to maintain the records without much hassle.



MANIPAL UNIVERSITY  
JAIPUR

Directorate of International Collaborations (DoIC)

# EXPLORE INDIA-2024

ONE WEEK INDIAN IMMERSION PROGRAM AT MUJ



## PROGRAM COMMENCES:

SECOND WEEK OF JAN./MARCH/AUGUST/NOV. 2024

### ESTIMATED PROGRAM FEE

**US\$ 499/PARTICIPANT\***

### PROGRAM FEE GROUP DISCOUNT

**US\$ 450/PARTICIPANT (FOR 15+ PAX) \***



## PROGRAM FEE INCLUDES:

- SHORT COURSE SESSIONS
- ACCOMMODATION (TWIN SHARING BASIS)
- AIRPORT (PICK & DROP)
- LOCAL TRANSPORT
- MONUMENT ENTRY TICKETS
- MEALS, FIELD TRIPS
- CULTURAL VISITS
- YOGA & MEDITATION



## ATTRACTIIONS:

- TAJ MAHAL VISIT
- TRADITIONAL CULTURAL ACTIVITIES
- BOLLYWOOD MOVIES
- EXOTIC INDIAN CUISINE
- EXPLORING THE PINK CITY – JAIPUR (UNESCO WORLD HERITAGE) AND ITS FORTS/PALACES/MONUMENTS / MUSEUMS
- BAGRU HAND BLOCK PRINTING
- BAREFOOT COLLEGE
- TILONIA VILLAGE (SOCIAL WORK & RESEARCH CENTER)



# MUJ FAMILIARIZATION & EXPLORE INDIA 2024!

**ARRIVAL:** Jan 23rd, 2024

**DEPARTURE:** Jan 30th, 2024

DAY 1	<p><b>MORNING:</b> Welcome to <b>Pink City</b> JAIPUR- A UNESCO World Heritage Site! Arrival and Pick-up from Delhi/Jaipur Airport (as ONE GROUP only at either Airport)</p> <p><b>EVENING:</b> Bollywood Movie Screening (after dinner)</p>
DAY 2	<p><b>MORNING:</b> Welcome at <b>MUJ</b> Campus- Registration, Inaugural Ceremony, Interaction with <b>MUJ</b> Leadership, <b>MUJ</b> Experience Theater</p> <p><b>AFTERNOON:</b> Lunch &amp; Campus Visit</p> <p><b>EVENING:</b> Interaction with <b>MUJ</b> Students- Life at <b>MUJ</b>, Cultural Evening- Student Clubs</p>
DAY 3	<p><b>MORNING:</b> Short Course (5 Hr. session on any one of the given courses) - Indian Cinema &amp; Culture - Power of Yoga &amp; Meditation (Art of Living) - Incredible India- A Brief History - Internationalization of Higher Education</p> <p><b>AFTERNOON:</b> Lunch</p> <p><b>EVENING:</b> Indian Handicrafts &amp; Artisans- Bagru Hand Block Printing Industry/Industrial Visit</p>
DAY 4	<p><b>MORNING:</b> Jaipur “<b>Pink City</b>” Heritage Walk. Amer Fort, Jaigarh/Nahargarh Fort</p> <p><b>AFTERNOON:</b> Rajasthani Lunch</p> <p><b>EVENING:</b> Shopping in Heritage City, City Bus Tour, Dinner at <b>MUJ</b></p>
DAY 5	<p>Visit to Tilonia (Barefoot College) &amp; Pushkar</p>

**DAY 6**

<b>MORNING:</b>	Experience Sharing, Feedback Souvenirs and Certificates
<b>AFTERNOON:</b>	Lunch (Packed)
<b>EVENING:</b>	Departure from Jaipur (Indian Train Journey) (Night stay at Agra)

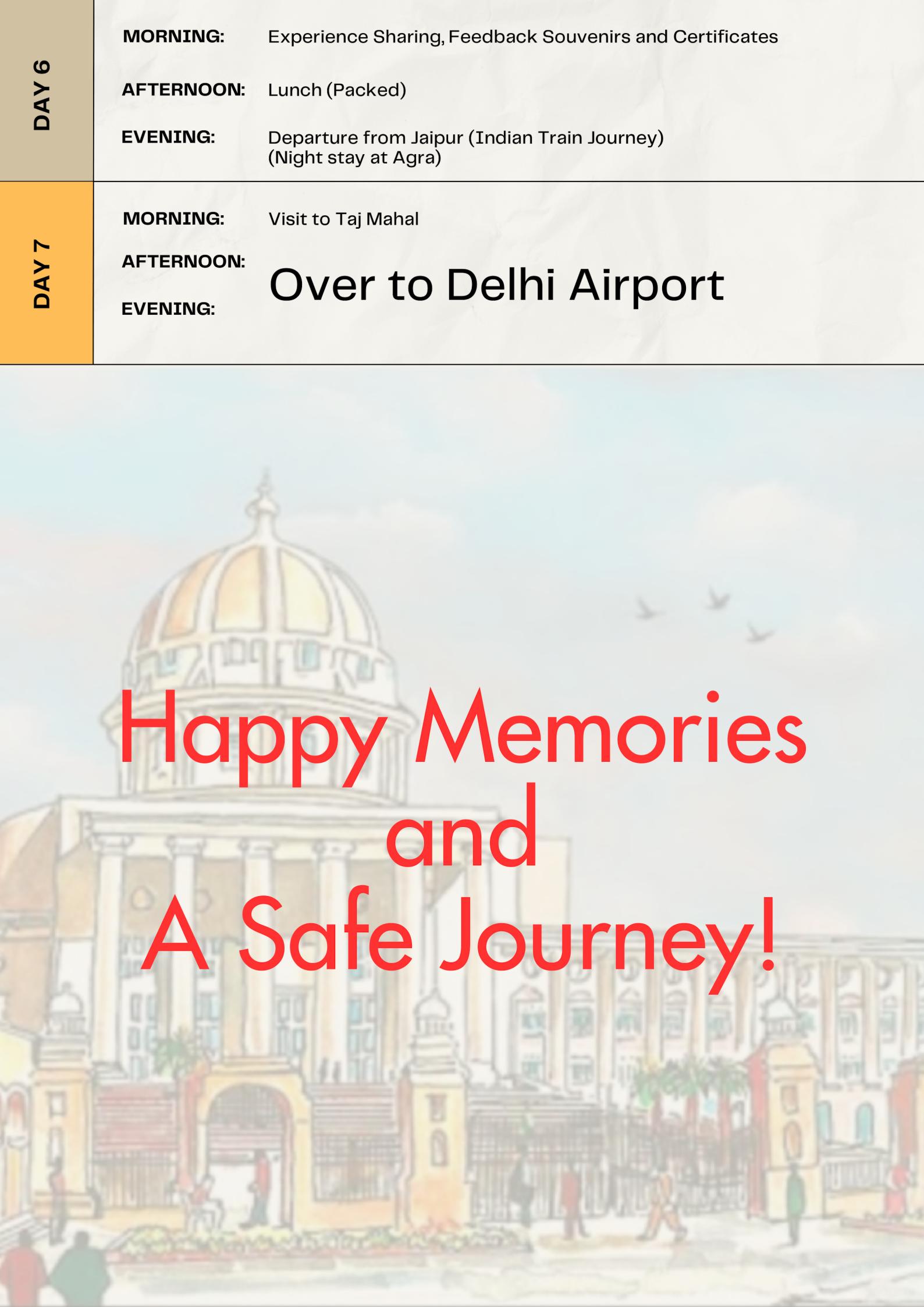
**DAY 7**

**MORNING:** Visit to Taj Mahal

**AFTERNOON:**

**EVENING:**

**Over to Delhi Airport**



**Happy Memories  
and  
A Safe Journey!**



**MANIPAL UNIVERSITY  
JAIPUR**

## **REGISTRATION LINK:**



**FOR MORE INFORMATION WRITE TO US:**

**ARUNKUMAR.POONIA@JAIPUR.MANIPAL.EDU**  
**SANTOSH.PATIL@JAIPUR.MANIPAL.EDU**

**DIRECTORATE OF INTERNATIONAL COLLABORATIONS  
(DOIC-MUJ)**

**DR. SANTOSH PATIL**  
**DIRECTOR, DOIC**

**DR. ARUN KUMAR POONIA**  
**PROGRAM COORDINATOR**  
**ASSISTANT DIRECTOR, DOIC**  
**WHATSAPP:+919929113568**