

# Lovely Professional University

Established by an Act of the Legislature of the State of Punjab, the Lovely Professional University Act, 2005 (Act No. 25 of 2005), and recognised by the University Grants Commission under Section 2(f) of the UGC Act, 1956

On recommendation of the Academic Council, Lovely Professional University admits

### Md. Faruk Mahmud

S/D/o Mr. Md. Foridul Alam and Ms. Mst. Masuda Khatun

to the degree of

# **Bachelor of Technology**

(Computer Science and Engineering)

in the First Division having completed the prescribed requirements in regular education mode in the year 2023.

Por

Given under the seal of the University at Phagwara, Punjab, India.



Registrar

Vice Chancellor

Chancellor

Certificate Number: 345099

Registration Number: 11900277

Ph: +91-1824-520990

website: www.lpu.in

This Degree can be authenticated by submitting the certificate number to www.lpu.in/authenticate or e-mail to recordverification@lpu.co.in







#### भारत सरकार GOVERNMENT OF INDIA अपोस्टिल / APOSTILLE

(Convention de La Haye du 5 octobre 1961)

# Country REPUBLIC OF INDIA

This public document

DEGREE

has been signed by DARSHAN SINGH SIDHU acting in the capacity of DIRECTOR

bears the seal/stamp of TECH EDU IND TRG TO GOVT OF PUNJAB

#### Certified

- at NEW DELHI, INDIA the 02-SEP-2024
- by SO(OUATTESTATION), MINISTRY OF EXTERNAL AFFAIRS

no 9003976972401

seal / stamp



is issued to MD FARUK MAHMUD

OI 2517

(Officer Incharge, Examination)

Checked & Verified by

As per the authorization issued by Govt. of Punjab vide memo No. 13/13/2007

Tech. Edu. & Indl.Trg. Govt. of Punjab

Date of Issue: ..... / ..... / ......





Jalandhar-Delhi G.T. Road, Phagwara, Punjab (India)-144411 Established by the State Legislature of Punjab through the Lovely Professional University Act and Recognized by UGC under Section 2(f) of the UGC Act, 1956

#### **Academic Transcript**

Student Name

: Md. Faruk Mahmud

Programme

: Bachelor of Technology (Computer

Science and Engineering)

Registration no. Father's Name : 11900277

: Mr. Md. Foridul Alam

Mode

Regular (Full Time)

Mother's Name

: Ms. Mst. Masuda Khatun

Date of initial registration: August, 2019

TERN	Ha UNIVERSITY TOWER DEGREES COME UNIVERSITY TOWER PROPERTIES TOPE TO THE TOWER PROPERTY EQUIVALENCE TO THE TOWER PROPERTY PROPERT	ent percentage	: 74.80 %
S.No.	Course ERSITY LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSIONAL UNIVERSITY	*Credits	*Grade
1	CHE110 :: ENVIRONMENTAL STUDIES	VEN SITY LOUE LY PRO	B+
2	CSE101 :: COMPUTER PROGRAMMING	3	A
3	ECE131 :: BASIC ELECTRICAL AND ELECTRONICS ENGINEERING SHOWAR UNIVERSITY LOVELY PROFESSIONAL	4	B+
4	ECE132 :: BASIC ELECTRICAL AND ELECTRONICS ENGINEERING LABORATORY	EISHY LONGLY PHO	B+
ROI5ssi	MEC107: BASIC ENGINEERING MECHANICS	4	A+
6	MTH165 :: MATHEMATICS FOR ENGINEERS MOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSIONAL UNIVERSITY.	E SITY LO 4 LY PRO	B+
7	PES318 :: SOFT SKILLS-I	3	B+

TERM	M-II TGPA: 7.04	Equivalent percentage	: 70.40 %
S.No.	Course ERSITY LOVELY PROFESSIONAL UNIVERSITY, LOVELY PROFESSIONAL LIMITERSITY, LIMITERSI	*Credits	*Grade
HOF1SSI	CSE202 :: OBJECT ORIENTED PROGRAMMING SITY LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSION	ONAL UNIVERSITY LO 4 LYPS	Α
2	CSE326 :: INTERNET PROGRAMMING LABORATORY	THAL UNIVERSITY - LONGLY PA	B+
RO 3	ECE213 :: DIGITAL ELECTRONICS MAL UNIVERSITY LOVELY PROFESSIONAL UNIVERSITY DOVELY PROFESSION	4	A
4	ECE216 :: DIGITAL ELECTRONICS LABORATORY LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSION	DNAL UNIVERSITY LOUILLY PR	A
5	MEC103:: ENGINEERING GRAPHICS	HALUNIE ITT LOGET IN	В
65	MTH166 :: DIFFERENTIAL EQUATIONS AND VECTOR CALCULUS	4	B+
7	PEL121 :: COMMUNICATION SKILLS-I	DWAL UNIVERSITY LOUIS PR	B+
8	PHY109:: ENGINEERING PHYSICS	4	В
9 50	PHY119 :: ENGINEERING PHYSICS LABORATORY	INAL UNIVERSITY, LOVELY PRO	B+

Certificate No.: D2312367 Date of issue: 24-Jun-2023 Place: Phagwara (Punjab)

Roat Prepared by

(Officer Incharge) Checked & Verified by

For Dean (Examinations)

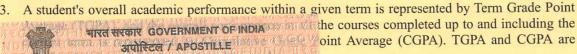
Page 1 of 4

# LOVELY PROFESSIONAL UNIVERSITY BASIS OF EVALUATION AND GRADING

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Letter Grade	Performance	Grade Points
0	Outstanding	10 AUTHENTICATED
A+	Excellent	9 As per the authorization issued by Govt. of
A	Very Good	8 Punjab vide memo No. 13/13/2007-1TE2/1816
B+	Good	7 Dt. 19-07-2007 and perification
В	Above Average	6 done by 2 Puin authenticate
C	Average	5 vide letter No
D	Marginal (37)	4
E	Reappear	0 Dua
F	Fail	O Director
I	Incomplete	Tech. Edu. & Indl.Trg. Govt. of Punjab
R	Resubmission (in case of projects/dissertation	
	other similar courses)	
S	Satisfactory (for zero credit courses only)	
U	Unsatisfactory (for zero credit course only)	
O. A+. A. B+. F	B. C and D are Pass grades. E is a temporary grad	le indicating permission to appear in

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Ministry of External Affairs, New Dell

(Convention de La Haye du 5 octobre 1961)

Country REPUBLIC OF INDIA

This public document MARKSHEET

has been signed by DARSHAN SINGH SIDHU acting in the capacity of DIRECTOR

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Certified

at NEW DELHI, INDIA the 02-SEP-2024

no 9003977062401

seal / stamp

is issued to MD FARUK MAHMUD

25173

**CGPA** 

by SO(OLATTESTATION), MINISTRY OF EXTERNAL AFFAIRS subject to the conditions that student all the courses in the 1st attempt.

but less than 9.0

by submitting the certificate number to Division, Lovely Professional University,

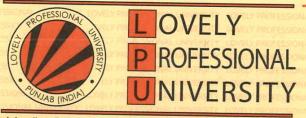
edits associated with the ith course of a term and

na / certificate will be 5.0 or above for Regular

Programmes, subject to getting a pass grade in

r conditions as specified in the examination

(राजकुमार सिंह) dia. (RAJKUMAR SINGH) अनुनाग आधेकारी (सत्यापन / जो आई.) Section Officer (Attestation / O.I.) भी,पी,बी, प्रभाग / C.P.V. Divisior विदेश मंत्रालय, नई दिल्ली





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Father's Name : N

: Mr. Md. Foridul Alam

Mode

Regular (Full Time)

Mother's Name

: Ms. Mst. Masuda Khatun

Date of initial registration : August,2019

TERN	TGPA: 6.23 Equivalent	nt percentage	: 62.30 %
S.No.	Course LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSIONAL UNIVE	*Credits	*Grade
ROF 155K	CSE205 :: DATA STRUCTURES AND ALGORITHMS	4	С
2	CSE211 :: COMPUTER ORGANIZATION AND DESIGN LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSIONAL	4	C
3	CSE320 :: SOFTWARE ENGINEERING	317 10317 110	В
4 4	INT213:: PYTHON PROGRAMMING	3	FESSIONAL
5	INT306 :: DATABASE MANAGEMENT SYSTEMS LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSIONAL UNIV	SIFT LOWELY PRE	FESS C MAL
6	MGN231 :: PROJECT	STY LOGICY PRO	Α
7	MTH401:: DISCRETE MATHEMATICS	SITY LOVELY PRO	A
8055550	COVER PROFESSIONAL UNIVERSITY LEWELF PROFESSIONAL UNIVE	SITY LOUGLY PRO	FES B+AL
8	PEL131 :: COMMUNICATION SKILLS-II LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSIONAL UNIVERSI	SITE LOUILY FRE	B+

TERM	LIV UNIVERSITY LOVELY PROFESSIONAL UNIVERSITY LOVE	TGPA: 6.56	Equivalent percentage	: 65.60 %
S.No.	Course	LY PROHISSIONAL UNIVERSITY OUV	*Credits	*Grade
ROF15SK	CSE306 :: COMPUTER NETWORKS	LYPROPESSIONAL UNIVERSITY LOW	W PROPERSONAL INVESTOR AND A STATE OF THE ST	A
2	CSE307 :: INTERNETWORKING ESSENTIALS	LY PROFESSIONAL UNIVERSITY LOVI	ELY PROFESSIONAL UNIVERSITY LONGLY PR	B+
3	CSE310 :: PROGRAMMING IN JAVA	LY PROFESSIONAL UNIVERSITY LOVE	THE PROPERTY OF THE PROPERTY O	C
ROP4SSIC	CSE316 :: OPERATING SYSTEMS TO HALL UNIVERSITY LOVE	LY PROFESSIONAL UNIVERSITY LOVE	ELY PROFESSIONAL UNIVERSITY LOVELY PRO ELY PROFESSIONAL UNIVERSITY AND 3 IN PRI	B+
5	CSE325 :: OPERATING SYSTEMS LABORATORY	LY PROFESSIONAL UNIVERSITY LOVE	LY PROFESSIONAL UNIVERSITY LOVELY PRI	BNAL
6	CSE408:: DESIGN AND ANALYSIS OF ALGORITHMS	LY PROFESSIONAL UNIVERSITY FOUR	TO SECRET SHOW A SHOW THE STATE OF THE SECRET SHOWS	B+
ROF <b>7</b> SSIC	INT404 :: ARTIFICIAL INTELLIGENCE   UNIVERSITY LOVE	LY PROFESSIONAL UNIVERSITY LOVE	LY PROFESSIONAL UNIVERSITY LO 4 LY PRO	Α
8	MTH302 :: PROBABILITY AND STATISTICS	LY PROFESSIONAL UNIVERSITY LOVE	LT PROFESSIONAL UNIVERSITY LO 3 LY PRO	C
9 s	PEVI06 :: VERBAL ABILITY-I ESSIONAL UNIVERSITY LOVE	LY PROFESSIONAL UNIVERSITY - LOVE	TY PROFESSIONAL UNIVERSITY LOVELY PRO	В

Certificate No.: D2312367 Date of issue: 24-Jun-2023 Place: Phagwara (Punjab)

Roat Prepared by

(Officer Incharge) Checked & Verified by

For Dean (Examinations)

Page 2 of 4

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В	Above Average	6 done by I Vin authenticate
C	Average	5 vide letter No
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I	Incomplete	Govt. of Punjab
R	Resubmission (in case of projects/dissertations	sor
	other similar courses)	
S	Satisfactory (for zero credit courses only)	
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O A + A D + 1	P. C and D are Pass grades F is a temporary grade i	indicating permission to appear in

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in a given term is represented by Term Grade Point THE TRANK GOVERNMENT OF INDIA in all the courses completed up to and including the rade Point Average (CGPA). TGPA and CGPA are

the credits associated with the ith course of a term and

liploma / certificate will be 5.0 or above for Regular tion Programmes, subject to getting a pass grade in other conditions as specified in the examination

## Certified

at NEW DELHI, INDIA the 02-SEP-2024

by SO(OVATTESTATION), MINISTRY OF EXTERNAL AFFAIRS no 9003977082401

seal / stamp



#### **CGPA**

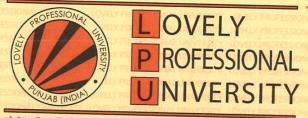
more subject to the conditions that student signature sseed all the courses in the 1st attempt.

more but less than 9.0

d by submitting the certificate number to ation Division, Lovely Professional University,

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(RAJ KUMAR SINGH) India. अशिकारी (सत्यापन/ओ,आई.) Section Officer (Attestation (O.L.) ते वा पनाम ! C P.V. Division विदेश मंत्रालय, नम् दिल्ली Ministry of External Affairs, New Delf





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TERN	M-V UNIVERSITY LOVELY PROFESSIONAL LIMITERS TY LOVELY PROFE TGPA: 6.10 TY LOVELY PROFE Equive	alent percentage	. 64 00 0/
S.No.	Course EPSITY LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSION	*Credits	ALC: STORY
ROFFSSR	CSE322 :: FORMAL LANGUAGES AND AUTOMATION THEORY	Credits	*Grade
2	THE RESERVE OF THE PROPERTY OF	WEISHY LOGINAR	В
ROP455H	CSE332 :: INDUSTRY ETHICS AND LEGAL ISSUES	2	B+
3	CSE343 :: TRAINING IN PROGRAMMING	IVE SITY IO 3 Y PR	TESSEMIAL
4	FIN348 :: INTERNATIONAL FINANCIAL MANAGEMENT		B+
5	INT242 :: CYBER SECURITY ESSENTIALS	3	В
	EDVELS PROFESSIONAL UNIVERSITY LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSIONAL UNIVERSITY	IVERSITY 1013 TV PR	С
6	PEA305 :: ANALYTICAL SKILLS-I PROFESSIONAL UNIVERSITY LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSIONAL UNIVERSITY	IVERSITY LOGILY PRO	FESS BNAL
ROFTSSI	PEV107:: VERBAL ABILITY-II	ART COMPLETE TO STATE OF THE PARTY OF THE PA	PERMIT
ROFECCIO	THE CHARGE THE LOVELY PROPESSIONAL UNIVERSITY LOVELY PROPESSIO	IVENSITY LOVE CV PRO	В

TERN	1-VI TGPA: 8.05 Ec	quivalent percentage	80 50 %
S.No.	Course ersity LOVELY PROFESSIONAL LINUVERSITY LINUVERS	*Credits	THE RESIDENCE
ROF1SSI	CSE423 :: VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY OF A VIRTUALIZATION AND CLOUD COMPUTING VEN PROFESSIONAL UNIVERSITY O	AL CONVEY DELY INVEST PRO	*Grade
2	CSE427 :: VIRTUALIZATION AND CLOUD COMPUTING LABORATORY	AL UNIVERSITY LOIS LY PRO	A MAL
3	CONTRACTOR CONTRACTOR CONTRACTOR OF THE CONTRACTOR CONT	AL DIVINUED CITY A PROTECT OF A	A+
D/SDECON	GEO801 :: DISASTER MANAGEMENT LUNIVERSITY LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSION	AL UNIVERSITY LOS V DEV	0
4	INT243 :: INFORMATION SYSTEM SECURITY LOVEY PROFESSIONAL UNIVERSITY LAVELY PROFESSION	AL UNIVERSITY LOGALY PRO	В
5	INT244 :: SECURING COMPUTING SYSTEMS	LUMBER LOGICATION	FESSIONAL
6	MGN220:: INTRODUCTION TO INTERNATIONAL BUSINESS	AL UNIVERSITY LOVELY PRO	FESSIONAL I
7	PES319:: SOFT SKILLS-II	AL UNIVERSITY LOUS LY PRO	FESSA MAL
ROFESSE	MAL UNIVERSITY I CUETY PROTECTIONAL TRAVERSITY LONGLY PROTECTIONAL TRAVERSITY LOVERS PROFESSIONAL	AL UNIVERSITY LOGILY PAC	A

TERM	I-VII DIVERSITY LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFE TGPA: 6.33	percentage	: 63.30 %
S.No.	Course Lourn appearantial throspory to the property and the course through the property to the control of the c	*Credits	*Grade
ROF <b>1</b> SSH	INT245 :: PENETRATION TESTING THAT UNIVERSITY HOVELY PROFESSIONAL HAMPENGERS	2	CECCIONIAI
2	INT407 :: INFORMATION SECURITY AND PRIVACY	SITY LONGLY PRO	FESSCHAL
And the last of the	MGN902 :: EXPORT IMPORT PROCEDURE AND DOCUMENTATION	LONGLY PRO	Α
OFFEREN	AND DOCUMENTATION	3	В

Certificate No.: D2312367 Date of issue: 24-Jun-2023 Place: Phagwara (Punjab)

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C	Average	done by 27 U. In puther T. Cart C.
D	Maurinal / 6 /	4 vide letter No
E	Reappear (%)	0 Doude
F	Fail	0
I	Incomplete	Tech. Edu. & Indl.Trg.
R	Resubmission (in case of projects/dissertation	0 1 10 11
	other similar courses)	_
S	Satisfactory (for zero credit courses only)	
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0 1 1 7 7	Companies and the companies of the compa	in directing namningian to appear in

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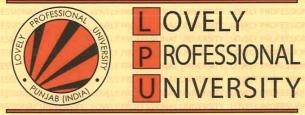
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no 9003977092401

seal / stamp

(राजकमार सिंह) (RAJ KUMAR SINGH) अनुभाग अधिकारी (सत्यापन/ओ.आई.) Section Officer (Attestation / O.I.) िवी थी. यमाग / C.P.V. Divisior विदेश मंत्रालय, नई दिल्ली Ministry of External Affairs, New Delf





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S.No.	Course Course LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSIONAL UNIVERSITY LOVELY PROFESSIONAL UNIVER	*Credits	*Grade
inclession	CSE445 :: CAPSTONE PROJECT	10	0
2	CSE493 :: LINUX SYSTEM ADMINISTRATION: PROFESSIONAL UNIVERSITY LOVELY PROFESSIONAL UNIVERSITY	ITY LOLALY PRO	B B MAL
3	INT301 :: OPEN SOURCE TECHNOLOGIES	HTY LONGLY PRO	0
4	MKT211 :: INTERNATIONAL MARKETING	3	B+

\* The student has successfully completed the Programme in June, 2023.

CGPA: 7.05

Equivalent percentage: 70.50 %

- \* 'Credit' means credit alloted to the course and 'Grade' means grade earned by the student.
- Basis of evaluation, grading, minimum CGPA requirement and other information is printed overleaf.
- \* This transcript can be authenticated by submitting the certificate number to www.lpu.in/authenticate.
- \* The multiplier factor for converting CGPA to equivalent percentage is 10.



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