



GURU GOBIND SINGH  
INDRAPRASTHA  
UNIVERSITY

# Guru Gobind Singh Indraprastha University, Delhi

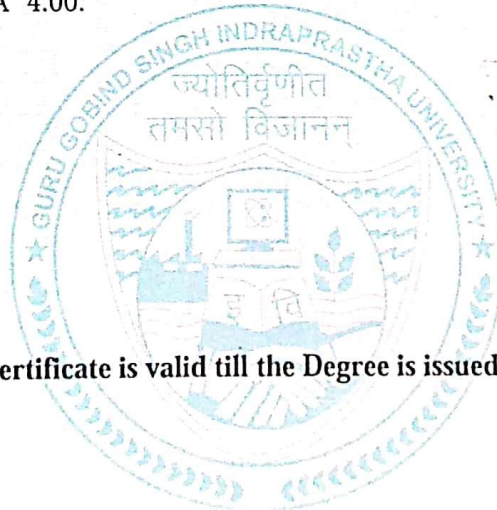
PROVISIONAL CERTIFICATE

4523979

Sr. No.: 190000083861



This is to certify that Mr./Ms. ANSH MITTAL (Enrollment No.:00611502715) S/o/D/o AJAY MITTAL was a bonafide student of BACHELOR OF TECHNOLOGY (COMPUTER SCIENCE AND ENGINEERING) programme of 8 SEMESTERS duration at BHARATI VIDYAPEETH COLLEGE OF ENGINEERING of the Guru Gobind Singh Indraprastha University. He/She was admitted in FIRST SEMESTER in year 2015. He/She has earned 214 against the minimum requirement of 200 credits for the award of the BACHELOR OF TECHNOLOGY (COMPUTER SCIENCE AND ENGINEERING) degree in MAY, 2019. His/her final CGPA is 8.97 against the minimum required CGPA 4.00.




This Certificate is valid till the Degree is issued.

Date of Issue: 05 SEP 2019

Print Date: 1-AUG-2019

Place: Delhi, India

  
Officer In-Charge

  
Controller of Examinations



CONSOLIDATED GRADE SHEET

BACHELOR OF TECHNOLOGY (COMPUTER SCIENCE AND ENGINEERING)

NAME: ANSH MITTAL  
ENROLLMENT: 00611502715  
FATHER'S NAME: AJAY MITTAL  
YEAR OF ADMISSION: 2015  
UNIVERSITY SCHOOL/ INSTITUTE: BHARATI VIDYAPEETH COLLEGE OF ENGINEERING

TOTAL CREDIT OF PROGRAMME: 214  
MINIMUM CREDITS REQUIRED: 200  
YEAR OF COMPLETION: May, 2019  
PROGRAMME DURATION: FOUR YEARS



PAPER	CS	INT	EXT	TOTAL	GRD (GP)	PAPER	CS	INT	EXT	TOTAL	GRD (GP)	
<b>FIRST SEMESTER</b>												
APPLIED MATHEMATICS-I	4	24	51	75	A+ (9)	APPLIED PHYSICS-I	3	21	54	75	A+ (9)	
MANUFACTURING PROCESSES	3	24	60	84	A+ (9)	ELECTRICAL TECHNOLOGY	3	22	49	71	A (8)	
HUMAN VALUES AND PROFESSIONAL ETHICS-I	1	-	68	68	A (8)	FUNDAMENTALS OF COMPUTING	2	23	61	84	A+ (9)	
APPLIED CHEMISTRY	3	24	43	67	A (8)	APPLIED PHYSICS LAB-I	1	36	52	88	A+ (9)	
ELECTRICAL TECHNOLOGY LAB	1	39	54	93	O (10)	WORKSHOP PRACTICE	2	38	42	80	A+ (9)	
ENGINEERING GRAPHICS LAB	2	39	54	93	O (10)	FUNDAMENTALS OF COMPUTING LAB	1	38	45	83	A+ (9)	
APPLIED CHEMISTRY LAB	1	38	53	91	O (10)							
<b>SECOND SEMESTER</b>												
APPLIED MATHEMATICS-II	4	16	46	62	B+ (7)	APPLIED PHYSICS-II	3	22	68	90	O (10)	
ELECTRONIC DEVICES	3	19	42	61	B+ (7)	INTRODUCTION TO PROGRAMMING	3	23	59	82	A+ (9)	
ENGINEERING MECHANICS	3	16	57	73	A (8)	COMMUNICATIONS SKILLS	3	21	55	76	A+ (9)	
ENVIRONMENTAL STUDIES	3	23	60	83	A+ (9)	APPLIED PHYSICS LAB-II	1	36	50	86	A+ (9)	
PROGRAMMING LAB	1	33	55	88	A+ (9)	ELECTRONIC DEVICES LAB	1	35	54	89	A+ (9)	
ENGINEERING MECHANICS LAB	1	37	53	90	O (10)	ENVIRONMENTAL STUDIES LAB	1	37	57	94	O (10)	
<b>THIRD SEMESTER</b>												
APPLIED MATHEMATICS - III	4	25	75	100	O (10)	FOUNDATION OF COMPUTER SCIENCE	4	21	65	86	A+ (9)	
SWITCHING THEORY AND LOGIC DESIGN	4	21	61	82	A+ (9)	CIRCUITS AND SYSTEMS	4	20	75	95	O (10)	
DATA STRUCTURE	4	22	56	78	A+ (9)	COMPUTER GRAPHICS AND MULTIMEDIA	4	23	59	82	A+ (9)	
SWITCHING THEORY AND LOGIC DESIGN LAB	1	36	52	88	A+ (9)	DATA STRUCTURE LAB	1	37	53	90	O (10)	
COMPUTER GRAPHICS AND MULTIMEDIA LAB	1	36	55	91	O (10)	CIRCUITS AND SYSTEMS LAB	1	40	52	92	O (10)	
<b>FOURTH SEMESTER</b>												
APPLIED MATHEMATICS - IV	4	23	71	94	O (10)	COMPUTER ORGANIZATION AND ARCHITECTURE	4	24	43	67	A (8)	
THEORY OF COMPUTATION	4	24	61	85	A+ (9)	DATABASE MANAGEMENT SYSTEMS	4	20	68	88	A+ (9)	
OBJECT ORIENTED PROGRAMMING	3	24	74	98	O (10)	COMMUNICATION SYSTEMS	4	24	65	89	A+ (9)	
NCC/NS	1	-	73	73	A (8)	APPLIED MATHEMATICS LAB	1	36	40	76	A+ (9)	
COMPUTER ORGANIZATION AND ARCHITECTURE LAB	1	34	55	89	A+ (9)	DATABASE MANAGEMENT SYSTEMS LAB	1	34	54	88	A+ (9)	
COMMUNICATION SYSTEMS LAB	1	36	50	86	A+ (9)	OBJECT ORIENTED PROGRAMMING LAB	1	36	53	89	A+ (9)	
<b>FIFTH SEMESTER</b>												
ALGORITHMS DESIGN AND ANALYSIS	4	22	65	87	A+ (9)	COMMUNICATION SKILLS FOR PROFESSIONALS	1	19	67	86	A+ (9)	
SOFTWARE ENGINEERING	4	22	56	78	A+ (9)	DIGITAL COMMUNICATION	4	21	47	68	A (8)	
JAVA PROGRAMMING	4	22	63	85	A+ (9)	INDUSTRIAL MANAGEMENT	3	23	60	83	A+ (9)	
ALGORITHMS DESIGN AND ANALYSIS LAB	1	36	52	88	A+ (9)	COMMUNICATION SKILLS FOR PROFESSIONALS LAB	1	39	55	94	O (10)	
SOFTWARE ENGINEERING LAB	1	38	43	81	A+ (9)	JAVA PROGRAMMING LAB	1	36	54	90	O (10)	
DIGITAL COMMUNICATION LAB	1	38	53	91	O (10)	VIVA INDUSTRIAL TRAINING / IN - HOUSE WORKSHOP	1	36	55	91	O (10)	
<b>SIXTH SEMESTER</b>												
COMPILER DESIGN	4	22	60	82	A+ (9)	OPERATING SYSTEMS	4	22	53	75	A+ (9)	
COMPUTER NETWORKS	4	24	68	92	O (10)	WEB TECHNOLOGY	3	20	60	80	A+ (9)	
ARTIFICIAL INTELLIGENCE	4	19	57	76	A+ (9)	MICROPROCESSOR AND MICROCONTROLLER	4	16	54	70	A (8)	
OPERATING SYSTEMS (LINUX PROGRAMMING AND ADMINISTRATION) LAB	1	37	53	90	O (10)	COMPUTER NETWORKS LAB	1	35	52	87	A+ (9)	
WEB TECHNOLOGY LAB	1	37	54	91	O (10)	MICROPROCESSOR AND MICROCONTROLLER LAB	1	36	53	89	A+ (9)	
<b>SEVENTH SEMESTER</b>												
INFORMATION SECURITY	4	21	50	71	A (8)	ADVANCED COMPUTER NETWORKS	3	24	49	73	A (8)	
SOFTWARE TESTING AND QUALITY ASSURANCE	3	25	57	82	A+ (9)	WIRELESS COMMUNICATION	3	22	52	74	A (8)	
DATA MINING AND BUSINESS INTELLIGENCE	3	24	48	72	A (8)	INFORMATION SECURITY LAB	1	36	53	89	A+ (9)	
SOFTWARE TESTING AND QA LAB	1	35	55	90	O (10)	LAB BASED ON ELECTIVE I AND II	1	36	56	92	O (10)	
SUMMER TRAINING / INDUSTRIAL WORKSHOP / CERTIFICATION	1	35	56	91	O (10)	MINOR PROJECT	3	30	48	78	A+ (9)	
WIRELESS COMMUNICATION LAB	1	37	50	87	A+ (9)							
<b>EIGHTH SEMESTER</b>												
MACHINE LEARNING	3	24	55	79	A+ (9)	HUMAN VALUES AND PROFESSIONAL ETHICS - II	1	21	67	88	A+ (9)	
MOBILE COMPUTING	4	22	54	76	A+ (9)	OBJECT ORIENTED SOFTWARE ENGINEERING	3	24	57	81	A+ (9)	
WEB INTELLIGENCE AND BIG DATA	3	24	54	78	A+ (9)	MOBILE COMPUTING LAB	1	38	37	93	O (10)	
MACHINE LEARNING LAB	1	40	52	92	O (10)	LAB BASED ON ELECTIVE - I	1	38	54	92	O (10)	
LAB BASED ON ELECTIVE - II	1	40	55	95	O (10)	MAJOR PROJECT	8	35	30	85	A+ (9)	
<b>CREDITS EARNED: 214</b>	<b>CGPA: 8.97</b>				<b>EQUIVALENT PERCENTAGE: 89.7</b>				<b>DIVISION: FIRST</b>			

CS: Credit Secure; INT: Internal Marks; EXT: External Marks; ABS: Absent; CAN: Cancel; GRD: Grade; GP: Grade Point; \*: Passed with Grace  
Minimum Cumulative Grade Point Average (CGPA) required for the award of the degree is 4.

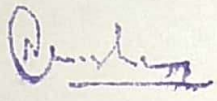
Place: Delhi, India

*Ranveer*  
Officer In-Charge

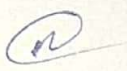


*Ansh*  
Controller of Examinations


*Prepared by:*



*Checked by:*



*Verified by:*



## SCHEMATA OF EVALUATION

### Credit & Marks :-

- (a) One credit is equal to one hour lecture or two hours of laboratory work per week.
- (b) The maximum marks in each course is 100, irrespective of the number of credits assigned to the course.
- (c) Full credits are awarded after passing in a course; otherwise no credits are awarded.
- (d) **Grading System:-**

Marks	Grade	Grade Point
90 - 100	O	10
75 - 89	A+	9
65 - 74	A	8
55 - 64	B+	7
50 - 54	B	6
45 - 49	C	5
40 - 44	P	4
Less than 40 or absent	F	0

Grade P (grade point 4) shall be the course passing grade unless specified otherwise by the Syllabi and Scheme of Teaching and Examination for the programme. For grade(s) below the passing grade as defined in the Syllabi and Scheme of Teaching and Examination, the associated grade points shall be zero.

The formula for calculation of (Annual/ Semester) Grade Point Average and Cumulative Grade Point Average is given below:

$$(A/S)GPA = \frac{\sum_i C_i G_i}{\sum_i C_i}$$

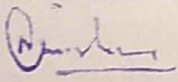
$$CGPA = \frac{\sum_n \sum_i C_{ni} G_{ni}}{\sum_n \sum_i C_{ni}}$$

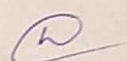
Where

- A - Annual
- S - Semester
- $C_i$  - number of credits for the  $i$ th course.
- $G_i$  - grade point obtained in the  $i$ th course.
- $C_{ni}$  - number of credits of the  $i$ th course of the  $n$ th semester.
- $M_{ni}$  - marks of the  $i$ th course of the  $n$ th semester.
- $G_{ni}$  - grade points of the  $i$ th course of the  $n$ th semester.

**Division:-**

- CGPA of 4.00 - 4.99 shall be placed in the Third Division.
- CGPA of 5.00 - 6.49 shall be placed in the Second Division.
- CGPA of 6.50 or above shall be placed in the First Division.
- CGPA of 10 shall be placed in the Exemplary Performance. Exemplary Performance shall be awarded, if and only if, every course of the programme offered to the student is passed in the first chance of appearing in the paper that is offered to the student. A student with an academic break shall not be awarded the exemplary performance.
- The CGPA  $\geq 10$  shall be deemed equivalent to percentage of marks obtained by the student for the purpose of equivalence to percentage of marks.

Prepared by:  


Checked by:  


Verified by:  
