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 Roll No. : **2019-10-0009**
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 Lahore Punjab 54500**
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ID **12381**
 Major: **Computer Science**

| COURSE CODE | DESCRIPTION | CREDITS | GRADE |
|----------------|-------------|---------|-------|
|----------------|-------------|---------|-------|

Fall Semester 2015-16

| | | | |
|----------|-------------------------------|---|----|
| CHEM 101 | Principles of Chemistry | 3 | B |
| CS 100 | Computational Problem Solving | 3 | A |
| MATH 101 | Calculus-I | 3 | A+ |
| PHY 100 | Experimental Physics Lab I | 2 | B+ |
| PHY 101 | Mechanics | 4 | A |
| SS 101 | Islamic Studies | 2 | C- |

Spring Semester 2015-16

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|----------|--|---|----|
| BIO 100 | Biology Laboratory | 1 | A- |
| BIO 101 | Introductory Biology | 3 | B |
| CHEM 100 | Experimental Chemistry | 1 | A- |
| EE 100 | Engineering Laboratory | 1 | A- |
| MATH 120 | Linear Algebra with Differential Equations | 3 | A- |
| PHY 104 | Modern Physics | 4 | A |
| SS 100 | Writing and Communication | 4 | B- |

Fall Semester 2016-17

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|----------|--|---|----|
| BIO 216 | Molecular Biology | 3 | B |
| CS 200 | Introduction to Programming | 4 | A+ |
| CS 210 | Discrete Mathematics | 4 | A+ |
| CS 225 | Fundamentals of Computer Systems | 4 | A |
| MATH 230 | Probability | 3 | A |
| SS 102 | Pakistan Studies: Culture and Heritage | 2 | C+ |

Placed on Dean's Honour List.

Spring Semester 2016-17

| | | | |
|---------|---|---|----|
| CS 202 | Data Structures | 3 | A |
| CS 220 | Digital Logic Circuits | 3 | A |
| CS 220L | Digital Logic Circuits Lab | 1 | A+ |
| CS 300 | Advanced Programming | 3 | A+ |
| CS 315 | Theory of Automata | 3 | A |
| CS 331 | Introduction to Artificial Intelligence | 3 | A |
| CS 382 | Network-Centric Computing | 3 | A |

Placed on Dean's Honour List at the end of academic year 2016-2017.

Fall Semester 2017-18

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|----------|---------------------|---|----|
| CS 310 | Algorithms | 3 | A |
| CS 340 | Databases | 3 | A |
| CS 370 | Operating Systems | 3 | A+ |
| CS 501 | Applied Probability | 3 | A+ |
| CS4612 | Program Analysis | 3 | A |
| MATH 320 | Algebra I | 4 | A- |

Placed on Dean's Honour List.

Spring Semester 2017-18

| | | | |
|----------|------------------------------|---|--|
| CS 360 | Software Engineering | 3 | |
| CS 473 | Network Security | 3 | |
| CS 497B | Directed Research Project | 2 | |
| ECON 121 | Principles of Macroeconomics | 4 | |

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|-------------------------------|---------|------|------|
| | CREDITS | | |
| ATTEMPTED | 104 | | |
| TAKEN TOWARDS GPA | 92 | CGPA | 3.71 |
| TRANSFERRED | 0 | | |
| CREDITS GIVEN ON RE-ADMISSION | 0 | | |
| SUCCESSFULLY COMPLETED | 92 | | |

End of Undergraduate Transcript