



झारखण्ड केन्द्रीय विश्वविद्यालय

Central University of Jharkhand

(Established by an Act of Parliament of India, 2009)

Brambe, Ranchi - 835205

Sl.No.: 01396

CONSOLIDATED GRADE TRANSCRIPT

Letter and Numeric Grade points awarded to **Alok Raj**, S/o. Mr. Dhananjay Choudhary and Mrs. Punam Kumari, Registration No. **CUJ/I/2016/IAP/06**, who has successfully completed six semesters of **Bachelor of Science (Hons.) in Applied Physics** and is taking an exit from the Five Years Integrated Programme.

| Course Code | Title of the Course | Credits | Letter Grade | Numeric Grade Point |
|---------------------|--|----------------------|--------------|---------------------|
| Semester-I | | | | |
| PHY/MAT/110010 | Mathematics - I | 4 | C | 7 |
| PHY/PHY/111100 | General Properties of Matter | 4 | S | 10 |
| PHY/CHM/110030 | Principles of Chemistry - I | 3 | A | 9 |
| PHY/COM/110050 | Fundamentals of Computer & C Programming | 4 | C | 7 |
| PHY/EVS/110060 | Environmental Studies | 3 | A | 9 |
| PHY/BIO/110070 | Introductory Biology | 4 | A | 9 |
| PHY/PHY/111110 | Waves & Oscillations | 4 | S | 10 |
| PHY/PHY/112080 | Applied Physics-I Lab | 2 | A | 9 |
| PHY/CHM/112090 | Principles of Chemistry-I Lab | 2 | C | 7 |
| Semester-II | | | | |
| PHY/MAT/120010 | Mathematics-II | 3 | S | 10 |
| PHY/PHY/121100 | Vector Calculus | 4 | B | 8 |
| PHY/CHM/120031 | Principles of Chemistry -II | 3 | A | 9 |
| PHY/PHY/121140 | Heat | 4 | B | 8 |
| PHY/ENG/120040 | Communicative English | 4 | B | 8 |
| PHY/PHY/121060 | Modern Physics | 4 | S | 10 |
| PHY/CHM/122120 | Principles of Chemistry Lab II | 2 | C | 7 |
| PHY/PHY/122110 | Applied Physics Lab -II | 2 | A | 9 |
| Semester-III | | | | |
| PHY/THP/211020 | Thermal Physics | 4 | B | 8 |
| PHY/OPT/211030 | Optics | 4 | A | 9 |
| PHY/CLM/211070 | Classical Mechanics - I | 4 | A | 9 |
| PHY/MTP/211080 | Mathematical Physics-I | 4 | S | 10 |
| PHY/APL/212060 | Applied Physics Lab - III | 4 | B | 8 |
| PHY/LRM/210100 | Disaster Management | 3 | C | 7 |
| Semester-IV | | | | |
| PHY/APL/222050 | Applied Physics Lab-IV | 4 | S | 10 |
| PHY/MPH/221010 | Mathematical Physics-II | 4 | S | 10 |
| PHY/ELE/221030 | Electronics-I | 4 | S | 10 |
| PHY/QPH/221020 | Quantum Physics | 4 | B | 8 |
| PHY/ELM/221090 | Electricity and Magnetism-I | 4 | A | 9 |
| PHY/SSP/221040 | Solid State Physics-I | 4 | B | 8 |
| Semester-V | | | | |
| PHY/FIO/315080 | Fibre and Integrated Optics | 4 | A | 9 |
| PHY/NAN/315070 | Advanced Functional Materials And Devices | 4 | B | 8 |
| PHY/NAN/321090 | Nanotechnology For Energy System | 4 | S | 10 |
| PHY/STR/315090 | Special Theory of Relativity | 4 | S | 10 |
| PHY/TCP/315100 | Tensor Calculus and Its Basic Application in Physics | 4 | E | 5 |
| Semester-VI | | | | |
| PHY/APL/322050 | Applied Physics Lab-VI | 4 | A | 9 |
| PHY/AMP/321050 | Atomic and Molecular Physics I | 4 | A | 9 |
| PHY/ELM/321040 | Electricity and Magnetism- II | 4 | S | 10 |
| PHY/NUP/321030 | Nuclear Physics | 4 | S | 10 |
| PHY/QTM/321020 | Quantum Mechanics-I | 4 | S | 10 |
| PHY/STM/321010 | Statistical Mechanics-I | 4 | C | 7 |
| | | Total Credits | 147 | |

Cumulative Grade Point Average (CGPA) : 8.76 (Eight Point Seven Six)

Division : 1st Division with Distinction

Final result declared on : 5th July, 2019

Checked by :

Verified by :

Date : 9.7.2020

Ranchi

9.7.2020
Controller of Examinations
Controller of Examination
झारखण्ड केन्द्रीय विश्वविद्यालय
Central University of Jharkhand