



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली
(मानव संसाधन विकास मंत्रालय का एक स्वायत्त संस्थान, भारत सरकार के अधीन)
सैक्टर—81, नॉलेज सिटी, पो ऑफ मनौली, एस.ए.एस.नगर, मोहाली, पंजाब-140 306

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI

(Estd. By Ministry of Human Resource Development, Govt. of India)

Sector– 81, Knowledge City, P.O. Manauli, S.A.S.Nagar, Mohali, Punjab-140306

Dr. Ramandeep Singh Johal
Dean Academics

E-mail: deanacad@iisermohali.ac.in

IISER/16/DOAA/62

May 20, 2016

To Whom it May Concern

This is to certify that the Institute does not follow a formula for conversion from CPI to percentage. The CPI is, on the scale of 10, the credit weighted average of the grade points earned by the student:

$$CPI = \frac{\text{Total of (credits x points)}}{\text{Total credits}}$$

The Institute issues degree certificates and grade cards to the graduating students. It does not issue any migration certificate. The medium of instruction is English language.


Dean, Academics



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Sector 81, Knowledge City, SAS Nagar, 140306, Punjab, India

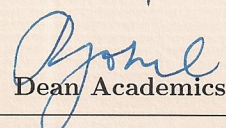
Five year BS-MS Dual Degree Programme
Grade Card

Name of the student : Atul Singh Arora
Registration No. : MS11003
Year & Month of Completion : May 2016
Cumulative Performance Index (CPI) : 9.4



Code	Title of the Course	Cr	Gd	Code	Title of the Course	Cr	Gd
<i>Semester I</i>				<i>Semester II</i>			
BI0101	Cellular basis of life	3	A	BI0102	Gene expression & development	3	B
BI0111	Biology Lab I	1	B	BI0112	Biology Lab II	1	B
CHM101	Chemistry of elements & chemical transformations	3	D	CHM102	Atoms molecules & symmetry	3	B
CHM111	Chemistry Lab I	1	B	CHM112	Chemistry Lab II	1	B
HSS101	Language Skills	2	B	HSS102	History of science	2	B
IDC101	Introduction to computers	2	A	IDC102	Hands-on electronics	2	A
MTH101	Symmetry	3	A	MTH102	Analysis in one variable	3	B
PHY101	Mechanics	3	A	PHY102	Electromagnetism	3	A
PHY111	Physics Laboratory I	1	B	PHY112	Physics Laboratory II	1	A
<i>Semester III</i>				<i>Semester IV</i>			
BI0201	Genetics & Evolution	3	A	BI0202	Behaviour & ecology	3	B
BI0211	Biology Laboratory III	1	A	BI0212	Biology Lab IV	1	A
CHM201	Spectroscopic & other physical methods	3	B	CHM202	Energetics & Dynamics of Chemical Reactions	3	A
CHM211	Chemistry Laboratory III	1	A	CHM212	Chemistry Lab IV	1	A
IDC201	Astronomy & Astrophysics	2	B	HSS202	Philosophy of Science	2	A
IDC211	Workshop Training	1	A	IDC206	Quantum physics for scientists	2	A
MTH201	Curves & Surfaces	3	A	MTH202	Probability & Statistics	3	A
PHY201	Waves & Optics	3	C	PHY202	Thermodynamics & Statistical Physics	3	A
PHY211	Physics Laboratory III	1	A	PHY212	Modern Physics Lab	1	A
<i>Semester V</i>				<i>Semester VI</i>			
HSS632	Philosophy of Rationality	4	A	IDC352	Seminar (attending)	1	A
IDC351	Seminar (attending)	1	A	PHY304	Statistical Mechanics	4	A
PHY301	Classical Mechanics	4	A	PHY305	Atomic & Molecular Physics	4	A
PHY302	Quantum Mechanics	4	A	PHY312	Advanced Electronics & Instrumentation Lab	4	B
PHY303	Electrodynamics	4	A	PHY631	Quantum Computation & Quantum Information	4	A
PHY311	Advanced Optics & Spectroscopy Lab	4	A	PHY646	Field Theory	4	A
<i>Semester VII</i>				<i>Semester VIII</i>			
IDC451	Seminar (delivering)	1	A	IDC402	Nonlinear dynamics, chaos & complex systems	4	A
PHY401	Nuclear & Particle Physics	4	A	IDC452	Seminar (delivering)	1	B
PHY402	Solid State Physics	4	B	PHY412	Condensed matter physics lab	4	A
PHY411	Nuclear Physics Lab	4	A	PHY422	Computational methods in physics	4	A
PHY638	Physics of Fluids	4	B	PHY659	Gauge Theories, the standard model & beyond	4	B
PHY656	Quantum Principles & Quantum Optics	4	A	PHY661	Selected topics in classical & quantum mechanics	4	A
PHY658	Radiative effects & Renormalization Group in Relativistic Quantum Field Theory	4	A	<i>Semester X</i>			
<i>Semester IX</i>				PHY654	Cosmology & galaxy formation	4	A
HSS633	Ethics	4	A	PRJ502	Thesis Research	16	A
PRJ501	Thesis Research	16	A				

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Meaning of Grades: A=Excellent, B=Good, C=Average, D=Pass, F=Fail.
Points for Grades: A=10, B=8, C=6, D=4, F=0
CPI is the credit weighted average of points earned.

Cr: Credits; Gd: Grade
$$CPI = \frac{\text{Total of (Credits} \times \text{Points)}}{\text{Total Credits}}$$