



## LAHORE UNIVERSITY OF MANAGEMENT SCIENCES

Name: **Muhammad Shiraz Ahmad**  
 Roll No.: **2017-12-0006**  
 ID: **19749**  
 Date of Birth: **Jan 1, 1995**


Programme: **Master of Science**  
 Major: **Physics**  
 Year Admitted: **2017-18**  
 Year Graduated: **2018-19**

COURSE CODE	DESCRIPTION	CREDITS	GRADE
<b>Fall Semester 2017-18</b>			
PHY 500	Graduate Physics Lab	3	A-
PHY 501	Electrodynamics	3	B
PHY 517	Quantum Mechanics III	3	C-
<b>Spring Semester 2017-18</b>			
PHY 516	Opto-Electronic Devices	3	B+
PHY 535	Advanced Condensed Matter Physics	3	B
PHY5112	Quantum Chemistry & Spectroscopy	3	C
<b>Fall Semester 2018-19</b>			
PHY 416	Principles of Optics	3	B+
PHY 509A	Master's Thesis	0	IP
<b>Spring Semester 2018-19</b>			
PHY 509B	Master's Thesis	6	P
PHY 602	Engineering Physics Project Lab	3	A+
PHY5112	Quantum Chemistry & Spectroscopy	3	B+
CREDITS			
ATTEMPTED	33	CGPA	3.16
TAKEN TOWARDS GPA	24		
TRANSFERRED	0		
CREDITS GIVEN ON RE-ADMISSION	0		
SUCCESSFULLY COMPLETED	30		

Completed the graduation requirements for Master of Science Programme, June-2019

End of Graduate Programme Transcript

Official Seal

  
 Registrar

Date Printed: 23-Jun-2019



## Transcript Interpretation MS Programme

The University moved from Quarter (Units) to Semester (Credits) System in Fall 2009-2010.

Programme	Required Units/ Credits / Credits (Minimum)	Passing CGPA
MS, MSc-Econ/ MS/ MS Econ (2.5 year track)*	45/ 30/58*	2.50
MSc-Econ (2-year track)	90/00/00	2.50

MS Econ Programme was launched in Fall Semester 2014 after discontinuation of MSc-Econ Programme.

### Explanation of Cumulative GPA

- Batches 2000 and earlier, value of A+ is 4.30, hence CGPA is calculated on a scale of 4.30.
- Batches 2001 onwards, CGPA is calculated on a scale of 4.0.
- MSc Econ (2-year track): CGPA is calculated for the Graduate level (second year) courses only.
- MS Econ (2.5 year track): All grades count in the CGPA.

### Medium of Instruction

The medium of instruction at LUMS is English.

### Notations:

- () : Credits for the course(s) given on readmission/transfer. Credits and grades not included in computation of CGPA, or attempted credits.
- # : Original grade for the course(s) repeated. Credits and grades not included in computation of CGPA, or attempted credits.
- R : Grade for the repeated course(s).

### Graduation Honours

CGPA	Recognition
3.70 and above	Placed on <b>Dean's Honour Roll</b>

### Authenticity

An official transcript is printed on a secure paper. When signed, dated and sealed, the transcript provides a certified copy of the student's academic performance. If envelope is opened, transcript will be considered as "Unofficial Document". An official, confidential transcript can only be obtained directly from Office of the Registrar.

### Grading Legend

Letter Grade	Grade Points	Description
A+	4.3**	Exceptional
A+	4.0***	Exceptional
A	4.0	Outstanding
A-	3.7	Excellent
B+	3.3	Very Good
B	3.0	Good
B-	2.7	Average
C+	2.3	Satisfactory
C	2.0	Low Pass
C-	1.7	Marginal Pass
D	1.0	Unsatisfactory
P	--	Pass
F	0	Fail
NC	--	No Credit
I	--	Incomplete
W	--	Withdrawn
IP	--	In-Progress
T	--	Transfer

\*\*For batches 2000 and earlier. \*\*\*For batches 2003 and onwards.

### Contact Information

Office of the Registrar,  
Lahore University of Management Sciences,  
DHA, Lahore-54792, Pakistan.  
Phone: (92-42) 111 115 867, 3560 8000  
Fax: (92-42) 3560 8317  
Email: [ro@lums.edu.pk](mailto:ro@lums.edu.pk), URL: [www.lums.edu.pk](http://www.lums.edu.pk)

Counter Signed by



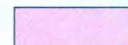
Senior/Assistant Registrar  
Lahore University of Management Sciences

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Serial No:SS 222696

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Printing Date: 20-Jul-2017

# Bahauddin Zakariya University, Multan (Pakistan)

## Controller of Examinations TRANSCRIPT

### Bachelors in Physics

Session : 2013-2017



Name: Muhammad Shiraz Ahmad

Roll No.: BS-P-13-43

Father's Name: Muhammad Akram

Registration No.: 2013-BZBS4Y-306

Cr. #	CourseTitle	GPA	Gr.	Cr.	Cr. #	CourseTitle	GPA	Gr.	Cr.
<b>Semester: I</b>					<b>Semester: II</b>				
CHEM-151	Inorganic Chemistry	2.90	C	4	CHEM-160	Organic Chemistry	3.90	B	4
COMP-101	Introduction to Computer & its Applications	3.80	B	3	ENGL-102	English-II (Communication Skills)	3.70	B	3
ENGL-101	English-III (Functional English)	3.90	B	3	ISLS-101	Islamic Studies	3.80	B	2
MATH-101	Calculus-I	4.00	A	3	MATH-102	Calculus-II	3.40	B	3
PAKS-101	Pakistan Studies	3.20	B	2	PHYS-102	Mechanics-II	2.90	C	3
PHYS-101	Mechanics-I	2.90	C	3	PHYS-104	Waves & Oscillations	3.20	B	3
PHYS-103	Physics Laboratory-I	3.90	B	1	PHYS-106	Physics Laboratory-II	4.00	A	1
<b>Semester GPA</b>		<b>3.46</b>	<b>B</b>		<b>Semester GPA</b>		<b>3.52</b>	<b>B</b>	
<b>Semester: III</b>					<b>Semester: IV</b>				
CHEM-271	Physical Chemistry	4.00	A	4	ARAB-101	Arabic	4.00	A	3
EDUC-111	Teaching & Learning	4.00	A	3	CHEM-210	Analytical Chemistry	2.90	C	2
ENGL-201	English-III (Report Writing)	4.00	A	3	PHYS-204	Heat & Thermodynamics	3.10	B	3
MATH-201	Calculus-III	4.00	A	3	PHYS-206	Electricity & Magnetism-II	2.80	C	3
PHYS-201	Electricity & Magnetism-I	4.00	A	3	PHYS-208	Electronics & Modern Physics	3.50	B	3
PHYS-203	Physics Laboratory-III	4.00	A	1	PHYS-210	Physics Laboratory-IV	4.00	A	1
<b>Semester GPA</b>		<b>4.00</b>	<b>A</b>		<b>Semester GPA</b>		<b>3.33</b>	<b>B</b>	
<b>Semester: V</b>					<b>Semester: VI</b>				
PHYS-301	Mathematical Methods of Physics-I	2.30	C	3	PHYS-302	Mathematical Methods of Physics-II	2.40	C	3
PHYS-303	Quantum Mechanics-I	3.50	B	3	PHYS-304	Quantum Mechanics-II	4.00	A	3
PHYS-305	Classical Mechanics	3.50	B	3	PHYS-306	Thermal & Statistical Physics	4.00	A	3
PHYS-307	Computational Physics	3.50	B	3	PHYS-308	Optics	3.90	B	3
PHYS-309	Analog Electronics-I	3.50	B	3	PHYS-310	Analog Electronics-II	2.70	C	3
PHYS-311	Laboratory (Spectroscopy & Modern Physics)	4.00	A	3	PHYS-312	Laboratory (Analog Electronics)	4.00	A	3
<b>Semester GPA</b>		<b>3.38</b>	<b>B</b>		<b>Semester GPA</b>		<b>3.50</b>	<b>B</b>	
<b>Semester: VII</b>					<b>Semester: VIII</b>				
MNGT-112	Entrepreneurship	2.70	C	3	MNGT-111	Human Resource Management	2.50	C	3
PHYS-401	Nuclear Physics	2.90	C	3	PHYS-402	Laser	2.70	C	3
PHYS-403	Solid State Physics-I	4.00	A	3	PHYS-404	Solid State Physics-II	3.10	B	3
PHYS-405	Electromagnetic Theory-I	3.20	B	3	PHYS-406	Electromagnetic Theory-II	4.00	A	3
PHYS-421	Digital Electronics-I	3.50	B	3	PHYS-422	Digital Electronics-II	2.60	C	3
PHYS-423	Digital Electronics Laboratory	3.70	B	3	PHYS-424	Laboratory/Project	3.90	B	3
<b>Semester GPA</b>		<b>3.33</b>	<b>B</b>		<b>Semester GPA</b>		<b>3.13</b>	<b>B</b>	

Course Result Completed on: 22-Jun-2017

CGPA : 3.46 / 4.00

Grade: B

GPA=Grade Point Average CGPA=Cummulative Grade Point Average [r]=Course Repeated C/W=Course Withdrawn  
Gr.=Grade Cr.=Credit Hour Cr. #=Course No.

Ready Reckoner is given overleaf

Assistant Controller of Examinations  
For Controller

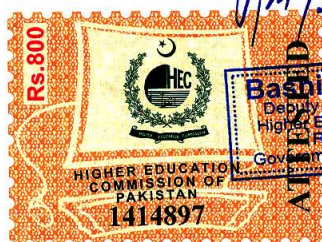
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21-8-2017



# BS PHYSICS TRANSCRIPT – BACKSIDE

Ready Reckoner			
1	50	2.00	C
2	51	2.10	C
3	52	2.10	C
4	53	2.20	C
5	54	2.30	C
6	55	2.30	C
7	56	2.40	C
8	57	2.50	C
9	58	2.50	C
10	59	2.60	C
11	60	2.70	C
12	61	2.70	C
13	62	2.80	C
14	63	2.90	C
15	64	2.90	C
16	65	3.00	B
17	66	3.10	B
18	67	3.10	B
19	68	3.20	B
20	69	3.30	B
21	70	3.30	B
22	71	3.40	B
23	72	3.50	B
24	73	3.50	B
25	74	3.60	B
26	75	3.70	B
27	76	3.70	B
28	77	3.80	B
29	78	3.90	B
30	79	3.90	B
31	80	4.00	A
32	81	4.00	A
33	82	4.00	A
34	83	4.00	A
35	84	4.00	A
36	85	4.00	A
37	86	4.00	A
38	87	4.00	A
39	88	4.00	A
40	89	4.00	A
41	90	4.00	A
42	91	4.00	A
43	92	4.00	A
44	93	4.00	A
45	94	4.00	A
46	95	4.00	A
47	96	4.00	A
48	97	4.00	A
49	98	4.00	A
50	99	4.00	A
51	100	4.00	A



**Basir Muhammad**  
 Deputy Director (Attestation)  
 Higher Education Commission  
 Regional Centre  
 Government of Pakistan Lahore

09 OCT 2017