

# University of Mumbai



**NAAC Accredited "A" Grade University  
University with Potential for Excellence**

## **Information for Admission for M.Sc. in Physics (by Papers)**

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**Facebook: <https://www.facebook.com/#!/profile.php?id=100001983601302>**

Disclaimer: Every effort has been made to prepare an uptodate and error-free document. If any typographical or other errors are found, they may be brought to the notice of the Head, Department of Physics. The errors will be corrected by publishing an addendum, if necessary.

**You are required to keep track of the admission process through notices on the Notice Board of the Department of Physics University of Mumbai. No individual intimation will be given to any student regarding the status of admission, merit list etc.**

**Wishing you all the best for your future endeavor.**

## 9. Information for Admission for M.Sc. (by Papers)

**Centralized Admission** will be done for the **University seats** of the following colleges, by University Department of Physics. Prospective students have to collect the Information Brochure and Application Forms from University Department of Physics. The college seats will be directly filled by the respective colleges. To take admission in college-seat-quota, prospective students are advised to contact the respective colleges directly.

Sr. No.	College Name	Physics		
		University Seats	College Seats	Total
<b>(AIDED COLLEGES)</b>				
1	University Dept. of Physics	64	0	64
2	Birla College	7	3	10
3	G.N.Khalsa College	7	3	10
4	K.J. Somaiya College	10	4	14
5	Ruia College	7	3	10
6	S.S. &L.S. Patkar College	7	3	10
7	Siddharth College	4	2	6
8	Mithibai College	7	3	10
9	I.Y. College	7	3	10
10	Bhavans College	7	3	10
11	D.G.Ruparel College	8	4	12
<b>(UNAIDED COLLEGES)</b>				
12	R.D. National College	7	3	10
13	S.I.E.S. College	7	3	10
14	Viva College	14	6	20
15	B.N. Bhandodkar College	14	6	20
16	Ratnam College	7	3	10
	<b>Total</b>	<b>184</b>	<b>52</b>	<b>236</b>

Admission to the following colleges will be done **by the respective colleges**. To take admission in the following colleges, prospective students are advised to contact the respective colleges directly.

Sr. No.	College Name	Physics		
		University Seats	College Seats	Total
<b>(AIDED COLLEGES)</b>				
1	Institute of Science	28	12	40
<b>(UNAIDED COLLEGES)</b>				
2	R.P. Gogate College, Ratnagiri	14	6	20
3	S.H. Kelkar College, Deogadh	14	6	20
	<b>Total</b>	<b>56</b>	<b>24</b>	<b>80</b>

### Theory Center-1

Theory lectures for the students enrolled in the following Department/Institute/Colleges will be held in University Department of Physics, University of Mumbai, Vidyanagari, Kalina, Santacruz (E), Mumbai 400098

Sr. No.	College Name	Physics		
		University Seats	College Seats	Total
<b>(AIDED COLLEGES)</b>				
1	University Dept. of Physics	64	0	64
	<b>Total</b>	<b>64</b>	<b>0</b>	<b>64</b>

### Theory Center-2

Theory lectures for the students enrolled in the following Department/Institute/Colleges will be held in Department of Physics, D. G. Ruparel College, Senapati Bapat Marg, Mumbai – 400 016

Sr. No.	College Name	Physics		
		University Seats	College Seats	Total
<b>(AIDED COLLEGES)</b>				
1	D.G.Ruparel College	8	4	12
2	Ruia College	7	3	10
3	S.S. &L.S. Patkar College	7	3	10
4	Siddharth College	4	2	6
	<b>Total</b>	<b>26</b>	<b>12</b>	<b>38</b>

### Theory Center-3

Theory lectures for the students enrolled in the following Department/Institute/Colleges will be held in Department of Physics, Somaiya Vidyavihar's K. J. Somaiya College of Arts & Science, Ghatkopar, Mumbai – 400 077.

Sr. No.	College Name	Physics		
		University Seats	College Seats	Total
<b>(AIDED COLLEGES)</b>				
1	K.J. Somaiya College	10	5	15
2	G. N. Khalsa College	7	3	10
3	Birla College	7	3	10
	<b>Total</b>	<b>24</b>	<b>11</b>	<b>35</b>

#### Theory Center-4

Theory lectures for the students enrolled in the following Department/Institute/Colleges will be held in Department of Physics, Bhavan's College Andheri (W), Mumbai – 400 058.

Sr. No.	College Name	Physics		
		University Seats	College Seats	Total
<b>(AIDED COLLEGES)</b>				
1	Bhavan College	7	3	10
2	Mithibai College	7	3	10
3	I.Y. College	7	3	10
	<b>Total</b>	<b>21</b>	<b>9</b>	<b>30</b>

#### Theory Center-5

Theory lectures for the students enrolled in the following Department/Institute/Colleges will be held in Department of Physics, Institute of Science, Madam Cama Road, Mumbai – 400 032.

Sr. No.	College Name	Physics		
		University Seats	College Seats	Total
<b>(AIDED COLLEGES)</b>				
1	Institute of Science	28	12	40
	<b>Total</b>	<b>28</b>	<b>12</b>	<b>40</b>

#### Theory Center-6

Theory lectures for the students enrolled in the following Department/Institute/Colleges will be held in Department of Physics, S. H. Kelkar College of Arts, Commerce & Science, (Deogad College) Smt. Neerabai Jagannath Parkar Vidyanagari, Post – Deogad, Dist – Sindhudurga, Sindhudurga – 416 613.

Sr. No.	College Name	Physics		
		University Seats	College Seats	Total
<b>(UNAIDED COLLEGES)</b>				
1	S.H. Kelkar College, Deogadh	14	6	20
	<b>Total</b>	<b>14</b>	<b>6</b>	<b>20</b>

### Theory Center-7

Theory lectures for the students enrolled in the following Department/Institute/Colleges will be held in Department of Physics, R. P. Gogate College, Ratnagiri, Dist: Ratnagiri.- 415 612.

Sr. No.	College Name	Physics		
		University Seats	College Seats	Total
<b>(UNAIDED COLLEGES)</b>				
1	R. P. Gogate College, Ratnagiri,	14	6	20
	<b>Total</b>	<b>14</b>	<b>6</b>	<b>20</b>

### Other Theory Centers of Unaided colleges of Mumbai region

For the Theory lectures for the students enrolled in the following Unaided Colleges the students are advised to contact the respective colleges directly.

Sr. No.	College Name	Physics		
		University Seats	College Seats	Total
<b>(UNAIDED COLLEGES)</b>				
1	B.N. Bandodkar College	14	6	20
2	Ratnam College	7	3	10
3	S.I.E.S. College	7	3	10
4	R.D. National College	7	3	10
5	Viva College	14	6	20
	<b>Total</b>	<b>28</b>	<b>12</b>	<b>70</b>

### Fees:

Next two pages give the Yearly Fees for the course as per the Circular no. UG/386/ of 2009, dated 6<sup>th</sup> October, 2009 of University of Mumbai. Form and prospectus fees will be collected at the time of the purchase of prospectus. In addition, Railway concession fee, Cultural activity fee and library smart card fee will be collected at the time of admission for students taking admission in University Department of Physics, as prescribed by the University. Any additional applicable fees may be charged by University Department/Colleges/Institute.

**Please note that, the Fees may be upwardly revised by the University, and the revised Fees applicable at the time of admission, will be charged.**

**UNIVERSITY OF MUMBAI**

Revised fee structure for M Sc courses (All Subjects)  
**(Aided Courses)**  
 (For University Departments, Institutes and Colleges)  
 (With effect from academic year 2009-2010)

Fee	Amount (Rupees)	Justification
Tuition	1,000/- (includes university share of tuition fee of Rs. 540/-)	Salary component for core faculty, invited faculty, salary for non teaching staff dedicated for the aided courses
Form and Prospectus fee	100/-	No change
Other fees/Extracurricular activities	250/-	No change
University Exam fee	600/-	No change
Mark sheet	50/-	No change
Laboratory fee	6000/-	For consumables , maintenance (recurring expenditure)
Library	1000/-	Reference books and journals
Gymkhana	200/-	No change
Admission processing fee	200/-	No change
Vice chancellors fund	20/-	No change
Magazine	100/-	No change
identity card	50/-	No change
Group insurance	40/-	No change
Student welfare	50/-	No change
University sports and cultural activity	30/-	No change
Development fee	500/-	No change
Utility	250/-	No change
Computer/internet	500/-	
e suvidha	50/-	No change
e charges	20/-	No change
Disaster relief fund	10/-	No change
<b>Total</b>	<b>11,020/-</b>	

Document verification:	400/- wherever applicable
Refundable deposits	
Caution money:	150/-
Library deposit:	250/-
Laboratory deposit:	400/-
Project fee:	2000/- (wherever applicable)
Registration fee for M Sc Part I only:	850/-
Registration form fee :	25/-
Convocation fee only for M Sc part II :	250/-

NB: Foreign students will have to pay five times of prescribed fees. The fee collected in different heads be spent only for specified purpose for which it has been collected

AC/4.16/7/08/2009

MC/18/21/08/2009

**UNIVERSITY OF MUMBAI**

Revised fee structure for M. Sc. course in  
Physics, Mathematics (MA/MSc), Statistics (MA/MSc) and Geology  
(Unaided Courses)

(University Departments, Institutes and Colleges)  
(With effect from academic year 2009-2010)

Fee	Amount (Rupees)	Justification
Tuition	15,000/-	Salary component for core faculty invited faculty, salary for non teaching staff dedicated for the unaided courses
Form and Prospectus fee	100/-	No change
Other fees/Extracurricular activities	250/-	No change
University Exam tee	600/-	No change
Mark sheet	50/-	No change
Laboratory fee	5,000/-	The Laboratory fee has been revised in view of the sophisticated instilments needed for the course, their annual maintenance including replacement of parts, Software recurring expenditure)
Library	1,000/-	Reference books and journals
Gymkhana	200/-	No change
Admission processing fee	200/-	No change
Vice chancellors fund	20/-	No change
Magazine	100/-	No change
Identity card	50/-	No change
Group insurance	40/-	No change
Student welfare	50/-	No change
University sports and cultural activity	30/-	No change
Development fee	500/-	No change
Utility _____	250/-	No change
Computer/internet	500/-	
e suvidha	50/-	No change
e charges	20/-	No change
Disaster relief fund	10/-	No change
<b>Total</b>	<b>23,520/-</b>	

Document verification:	400/- wherever applicable
Refundable deposits	
Caution money:	150/-
Library deposit:	250/-
Laboratory deposit:	400/-
Project fee:	2000/- (wherever application)
Registration fee for M Sc Part I only:	1000/-
Registration form fee:	25/-
Convocation fee Only for M Sc part II:	250/-

NB: Foreign students will have to pay five times of prescribed fees. The fee collected in different heads be spent only for specified purpose for which it has been collected

AC/4.16/7/08/2009

MC/18/21/08/2009

The procedure for enrollment of candidates to the M.Sc. Physics course (by papers) is as follows:

1. The application form for admission to the course and information brochure can be had from the office of the Head, Department of Physics, University of Mumbai, Vidyanagari Campus, Santacruz (East), Mumbai - 400 098. The application forms carry serial numbers. Any form not so numbered will not be accepted by the Department. While filling up the application form for admission, every student should go through the brochure carefully and fill up the application form for admission according to the instructions mentioned therein.
2. The application forms duly filled-in and signed and accompanied by the originals as well as certified copies of statement of marks, caste certificate and caste validity certificate should be submitted to the staff-in-charge of the admissions during the period specified for the purpose on the notice board in the Department. In case of DT-A(V.J), NT-B,NT-C,NT-D, OBC and SBC reserved category candidates the non-creamy layer certificates of the current financial year is also required. **Incomplete applications without mark sheet, caste certificate issued by competent authority** will be rejected.
3. No individual intimation will be sent to candidates selected for admission including those who are from other Universities. The list of students selected for admission to the course will be put up on the notice board of the Department. Generally three such admission lists based on merit are displayed one after the other in a short interval of time.
4. The candidates should clearly indicate their choice of the Department/college/institute, etc. in the application in order of preference at the time of admission at Part-I. The same will be considered and allotted strictly on the basis of merit and subject to availability. Once the candidate accepts Department/college/institute allotted at the time of admission to Part-I, no change shall be allowed thereafter, as per the rule in force.
5. In case some candidates do not take admission, the vacant seats in various Department/colleges/institutes, from a specific merit list, will be filled as follows: Only those candidates from that particular list who have taken admission but have not been able to secure their priority Department/college/institute could apply for change of Department/college/institute immediately but before the last date of payment of fees corresponding to that particular merit list. Depending upon availability of Department/college/institute desired, they may be granted the requested change in order of merit.
6. If a candidate indicates only one choice for Department/college/institute at the time of Part-I admission then the candidate will be considered only for the asked Department/college/institute and in one merit list only. Further clarification on this can be had from the staff-in-charge of the admissions.
7. The selection of candidates would be strictly on merit basis within each category.
8. For the students from University of Mumbai, only the marks obtained by the candidate in Physics at the third year B.Sc. examination of the University will be considered for deciding merit for admission to the M.Sc. course in Physics. Thus the merit list will be prepared on the third year B.Sc. marks in Physics only. For those candidates who have passed the B.Sc. examination at the second attempt, there will be a reduction of 3% of marks.



9. 3% seats are reserved for students coming from other Universities.
  - i. For applicants from Universities other than University of Mumbai there will be a reduction of 10% of marks while preparing merit list.
  - ii. A candidate belonging to University other than the University of Mumbai should have Physics as one of the major subjects at the third year of the B.Sc degree course. For the purpose of calculating the percentage for admission of such a candidate only the marks obtained in the subject of Physics at all the three years of B.Sc. will be taken into account.
  - iii. Such candidates are required to produce the original mark sheets of all the three years along with their applications form duly filled in and signed and accompanied by certified copies of mark sheets of all the three years indicating clearly the marks obtained, along with the maximum marks in the subject of Physics each year. An application without this information will be considered incomplete and rejected.
  - iv. Applicants from other Universities are required to submit a provisional certificate of eligibility while enrolling for the course. This provisional eligibility certificate can be obtained from the Registrar, Eligibility Section of University of Mumbai, Vidyanagari, Mumbai- 400 098 after submitting the application and necessary remittance.
10. The candidate selected for admission to the M.Sc. Part I Physics course will have to pay the fees for registration as a post-graduate student, as notified in the list of selected candidates put up on the notice board of the Department. The fee will have to be paid on or before the last date mentioned in the list, failing which the candidate will forfeit his/her claim to the seat allotted in the list.
11. A candidate who fails to avail of the admission offered to him / her before the last date as mentioned in the first list of selected candidates will not be considered for a seat in the second or subsequent list.
12. The vacancies that may arise on account of the selected candidates not availing themselves of the admission before the last date or those who might withdraw their admission will be notified through subsequent announcements in the Department and students would be chosen from the merit-based waiting list prepared after the third list. Those who are so selected for admission will have to pay the registration fee on or before the date indicated to them while admission is granted, failing which they will forfeit claim of admission to the course and the same will be offered to the next deserving candidate on the merit-based waiting list.

13. The quotas for reservation in admission in the course prescribed for different categories are:

1	Scheduled Caste and Scheduled Caste-coverts to Buddhism	(SC)	13%
2	Scheduled Tribes	(ST)	07%
3	Vimukta Jaati	(VJ/DT-A)**	03%
4	Nomadic Tribes (NT)	(NT-B)**	2.5%
5		(NT-C)**	3.5%
6		(NT-D)**	02%
7	Other Backward Classes	OBC**	17%
8	Special Backward Classes	SBC**	02%

\*\* Non-creamy layer certificate of current financial year compulsory.

**N.B: The reserved quota is applicable only for Mumbai University Graduates**

14. The reservation for physically handicapped (PH) candidates is 03%.

15. The quota for students of other universities (OU) is 03%

16. The vacant seats may be allotted to other candidates as per their merit and preference during spot admissions in the final round.

### **10. Choice of Electives for III<sup>rd</sup> and IV<sup>th</sup> semester**

The elective courses will be from topics ranging from, Nuclear Physics, Solid State Physics, Solid State Device Physics, Electronics & Communications, Electronics (Microprocessor, Microcomputers, Embedded systems), Astronomy, Space Physics, Materials Science, Laser Physics, Plasma Physics and other advanced specialized topics. Only some electives will be offered by each PG centre. Every year different electives may be offered depending on the availability of experts in PG centres.

10.1 The following colleges offer electives **only** from the subjects of **Electronics (Microprocessor, Microcomputers, Embedded systems)**.

Sr. No.	College Name	Physics		
		University Seats	College Seats	Total
<b>(AIDED COLLEGES)</b>				
1	Birla College	7	3	10
2	G.N.Khalsa College	7	3	10
3	K.J. Somaiya College	10	4	14
4	Ruia College	7	3	10
5	S.S. &L.S. Patkar College	7	3	10
6	Siddharth College	4	2	6
7	Bhavans College	7	3	10
8	D.G.Ruparel College	8	4	12
<b>(UNAIDED COLLEGES)</b>				
9	R.D. National College	7	3	10
10	S.I.E.S. College	7	3	10
11	Viva College	14	6	20
12	B.N. Bandodkar College	14	6	20
13	Ratnam College	7	3	10
14	R.P. Gogate College,	14	6	20
	<b>Total</b>	<b>120</b>	<b>52</b>	<b>172</b>

10.2 Following colleges offer electives **only** from the subjects of **Electronics & Communications**.

Sr. No.	College Name	Physics		
		University Seats	College Seats	Total
<b>(AIDED COLLEGE)</b>				
1	Mithibai College	7	3	10
<b>(UN-AIDED COLLEGE)</b>				
2	S.H. Kelkar College, Deogadh	14	6	20
	<b>Total</b>	<b>21</b>	<b>9</b>	<b>30</b>

10.3 IY College offers electives from the subjects of **Electronics (Microprocessor, Microcomputers, Embedded systems)** and **Electronics & Communications**. Electives to the students will be allotted, at the time of admission to Sem-III, by IY College on Merit, based on B Sc, Sem-I, and Sem-II marks.

Sr. No.	College Name	Elective Subjects	Physics		
			University Seats	College Seats	Total
<b>(AIDED COLLEGES)</b>					
1	IY College	Electronics (Microprocessor, Microcomputers, Embedded systems)	5	2	7
		Electronics & Communications.	2	1	3
<b>Total</b>			<b>7</b>	<b>3</b>	<b>10</b>

10.4 Institute of Science offers electives from the subjects of **Solid State Physics, Solid State Device Physics, Electronics (Microprocessor, Microcomputers, Embedded systems)** and **Electronics & Communications**. Electives to the students will be allotted, at the time of admission to Sem-III, by Institute of Science on Merit, based on B Sc, Sem-I, and Sem-II marks.

Sr. No.	College Name	Elective Subjects	Physics		
			University Seats	College Seats	Total
<b>(AIDED COLLEGES)</b>					
1	Institute of Science	Solid State Physics	7	3	10
		Solid State Device Physics	7	3	10
		Electronics (Microprocessor, Microcomputers, Embedded systems)	7	3	10
		Electronics & Communications.	7	3	10
<b>Total</b>			<b>28</b>	<b>12</b>	<b>40</b>

10.5 University Department of Physics offers electives from the subjects of **Nuclear Physics, Solid State Physics, Solid State Device Physics, Electronics & Communications, Electronics (Microprocessor, Microcomputers, Embedded systems), Astronomy, Space Physics, Materials Science, Laser Physics, Plasma Physics and other advanced specialized topics.** Every year different electives may be offered depending on the availability of experts in University Department of Physics. Electives to the students will be allotted, at the time of admission to Sem-III, by University Department of Physics on Merit, based on B Sc, Sem-I, and Sem-II marks.

Sr. No.	College Name	Elective Subjects	Physics
			Total Seats
<b>(AIDED)</b>			
1	University Department of Physics	1. Nuclear Physics, 2. Solid State Physics, 3. Solid State Device Physics, 4. Electronics & Communications, 5. Electronics (Microprocessor, Microcomputers, Embedded systems), 6. Astronomy, 7. Space Physics, 8. Materials Science, 9. Laser Physics, 10. Plasma Physics 11. Other advanced specialized topics. (Every year different electives may be offered depending on the availability of experts in University Department of Physics).	64
		<b>Total</b>	<b>64</b>

## 11. Important

Keep the following certificates ready as soon as possible and submit alongwith the application:

1. B. Sc. Original Mark-sheet and one attested copy.
2. Caste Certificate Original and one attested copy (for reserved category students).
3. Non-creamy Layer Certificate Original and one attested copy (for reserved category students).
4. Gap Certificate (Affidavit. If a student had a gap in studies after B Sc course).