

FACULTY OF SCIENCE

PROSPECTUS AND GUIDELINES FOR ADMISSION IN THE FIRST YEAR

BSc (Hons.) PROGRAM (Main Campus) 2021 onwards



THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA
VADODARA-390002, GUJARAT, INDIA



H. H. Maharaja Sayajirao Gaekwad-III

MISSION STATEMENT

Vision and mission as perceived by H. H. Maharaja Sayajirao Gaekwad-III

*“The progress of a nation requires that its people should be
educated. Knowledge is a necessity of man.*

*It instills in him a desire to question and to investigate, which leads him
on the path of progress. Education, in the broadest sense, must spread
everywhere.*

Progress can only be achieved by the spread of education.

*Cooperation is necessary to achieve any worthy end and this
readiness to cooperate will not be found in people
if they are not educated.*

FACULTY ADMINISTRATION for Grant In Aid BSc Program(MAIN CAMPUS)

DEAN: PROF. H R KATARIA

Email: dean-science@msubaroda.ac.in

Dean of Students: Dr. R N Jadeja

Email: deanstudents-science@msubaroda.ac.in

Dean of Sports: Ms. Shilpa Gupta

Email: deansports-science@msubaroda.ac.in

Teacher Supervisors: Dr. Rupal Shah, Dr. Dharmendra Shah

Email: ts-science@msubaroda.ac.in

Coordinator at Sir C V Raman Building: Dr. M N Srinivas

Email: unitcordinator-science@msubaroda.ac.in

CBCS Coordinator: Ms. Bharati M Pamnani

Email: cbcscordinator-science@msubaroda.ac.in

Office Superintendent: Mr. K M Damor

Ph: 0265 2795329 (office)

Mob: 8141332160 (during office hours only)

Administration for Higher Payment BSc Program (Padra Campus)

Prof. H. R. Kataria : Dean, Faculty of Science

Email: dean-science@msubaroda.ac.in

**Dr. T. S. Prabhu : Principal, M. K. Amin Arts & Science College and
College of Commerce, Padra**

Email: principal-padra@msubaroda.ac.in

HEADS OF DEPARTMENTS

Prof. N S R Krishnayya : Department of Botany
Email: head-botany@msubaroda.ac.in

Prof. Anjali Patel : Department of Chemistry
Email: head-chem@msubaroda.ac.in

Prof. Bindu Bhatt : Department of Geography
Email: head-geography@msubaroda.ac.in

Prof. Atul Joshi : Department of Geology
Email: head-geology@msubaroda.ac.in

Prof. R G Vyas : Department of Mathematics
Email: head-math@msubaroda.ac.in

Prof. G Archana : Department of Microiology
Email: head-microbio@msubaroda.ac.in

Prof. S Mukherjee : Department of Physics
Email: head-phy@msubaroda.ac.in

Prof. V A Kalamkar : Department of Statistics
Email: head-stat@msubaroda.ac.in

Prof. Dolly Kumar : Department of Zoology
Email: head-zoo@msubaroda.ac.in

GENERAL INFORMATION

FACULTY OF SCIENCE

India's internationally renowned The Maharaja Sayajirao University of Baroda has blossomed from the Baroda College, which is one of the oldest centers of learning in western India. The Maharaja Sayajirao University of Baroda is the only state university with a residential, unitary character having English as sole medium of instruction. Faculty of Science is a constituent institution of The Maharaja Sayajirao University of Baroda under its direct management and control. This Faculty began as an integral part of Baroda College which was founded by His Highness Sir Sayajirao Gaekwad of Baroda in the year 1881. He also started the Sayaji Jubilee Institute in 1933 and housed all science subjects under it. Foundation stone of the Sayaji Jubilee institute was laid in 1926 by Sir Daniel Rufus Isaacs, Viceroy and Governor General of India.

The efforts of establishing a Residential University at Baroda was initiated by Maharaja Sayajirao in 1908, but it became a reality only during the rule of His Highness Pratapsinhrao Gaekwad. The Maharaja Sayajirao University of Baroda came into existence on 30th April 1949. Through the constitution of the University, all the science departments were reconstituted as Faculty of Science. The Faculty of Science steadily made significant strides in various disciplines of science and attracted students from all over India and from other countries. It soon developed into a cosmopolitan center of education. The growth of the faculty thus amply complimented the pioneering efforts of the great visionary, Maharaja Sayajirao Gaekwad, who had taken great pains to improve science education.

B.SC. (HONS) PROGRAMME

This is a graduate degree programme of three years (six semesters) duration and comprises of 144 Credits. Each year is divided into two semesters.

CREDIT SYSTEM

A student of B.Sc. (Hons) Programme, under Choice Based Credit System(CBCS), is required to choose Compulsory(Principal, Core) courses , Elective courses and Foundation courses. Principal subject is the subject in which the student will be awarded B. Sc. (Hons.) degree after successfully earning 144 Credits across the six semesters. A theory course requiring instructions of N hours per week per semester is considered as N CREDIT theory course. A practical course of N CREDITS requires 2N hours' of laboratory teaching per week per semester.

CREDIT DISTRIBUTION [Yellow coloured Credits for Principal Subject]

Semester	Compulsory			Elective		Foundation		Total Credits
	PRINCIPAL	CORE 1	CORE 2	Generic	Discipline Specific	Ability Enhancement	Skill Development	
I	8	8	8	---	---	---	---	24
II	8	8	8	---	---	---	---	24
III	12	---	---	8	---	4	---	24
IV	12	---	---	8	---	4	---	24
V	12	---	---	---	10	---	2	24
VI	12	---	---	---	10	---	2	24

FOR ONLINE APPLICATION AND OPENING/CLOSING DATES VISIT
admission.msubaroda.ac.in

Principal Subjects offered in BSc		Application form Fees 300.00
MAIN CAMPUS- Faculty of Science	Botany, Chemistry, Geography, Geology, Mathematics, Physics, Statistics, Zoology .	
PADRA CAMPUS- M. K. Amin Arts & Science College	Botany, Chemistry, Mathematics, Physics, Zoology, Microbiology .	

SEATS' AVAILABILITY at Faculty of Science (MAIN CAMPUS)

Subject	Total Seats
Botany, Chemistry, Geography, Geology, Physics, Statistics, Zoology (144 each), Mathematics(216)	1224

Applications for BSc -Faculty of Science and BSc -M K Amin College, Padra must be done separately.

Subject groups offered at First Year BSc -Faculty of Science (Main Campus)

Sr. No.	SUBJECT GROUPS for FYBSC			Offered to Subject Group
	Principal	CORE 1	CORE 2	
1	Botany	Zoology	Chemistry	B, AB
2	Botany	Zoology	Geography	B, AB
3	Botany	Zoology	Geology	B, AB
4	Botany	Chemistry	Physics	B, AB
5	Zoology	Botany	Chemistry	B, AB
6	Zoology	Botany	Geography	B, AB
7	Zoology	Botany	Geology	B, AB
8	Zoology	Chemistry	Physics	B, AB
9	Chemistry	Botany	Zoology	B, AB
10	Chemistry	Geography	Geology	B, AB
11	Geography	Botany	Zoology	B, AB
12	Geology	Botany	Zoology	B, AB
13	Chemistry	Mathematics	Physics	A, AB
14	Chemistry	Mathematics	Statistics	A, AB
15	Mathematics	Chemistry	Physics	A, AB
16	Mathematics	Chemistry	Statistics	A, AB
17	Mathematics	Physics	Statistics	A, AB
18	Physics	Mathematics	Chemistry	A, AB
19	Physics	Mathematics	Statistics	A, AB
20	Statistics	Mathematics	Chemistry	A, AB
21	Statistics	Mathematics	Physics	A, AB
22	Statistics	Mathematics	Geology	A, AB
23	Geography	Geology	Mathematics	A, AB
24	Geography	Geology	Statistics	A, AB
25	Geography	Geology	Physics	A, B, AB
26	Geography	Chemistry	Physics	A, B, AB
27	Geology	Geography	Physics	A, B, AB
28	Geology	Mathematics	Physics	A, AB
29	Geology	Mathematics	Chemistry	A, AB
30	Geology	Statistics	Physics	A, AB
31	Geology	Chemistry	Physics	A, B, AB

SEATS AVAILABILITY and SUBJECT GROUPS OFFERED at First Year BSc (PADRA CAMPUS)

Principal	Core 1	Core 2	Seats	Principal	Core 1	Core 2	Seats
HIGHER PAYMENT PROGRAMME							
Group "A" combinations				Group "B" combinations			
Chemistry	Mathematics	Physics	60	Botany	Chemistry	Zoology	60
Mathematics	Chemistry	Physics	60	Chemistry	Botany	Zoology	60
Physics	Chemistry	Mathematics	60	Zoology	Botany	Chemistry	60
				Microbiology	Chemistry	Botany	30
				Microbiology	Chemistry	Zoology	30
REGULAR PAYMENT (Grant-In-Aid) PROGRAMME							
Mathematics	Statistics	Economics	60				

Students of "AB" Group can opt for any of the subject combination from the above.

LOCATION WISE DISTRIBUTION OF SEATS:

Out of the total seats in each reservation category, depending upon the **location of school** from where the student has passed 12th standard (or equivalent), the distribution of seats is as given below:

Students from Vadodara district:	70% seats
Students from other districts of Gujarat:	20% seats
Students from other states and Union Territories of India:	10% seats

ELIGIBILITY CRITERIA

The 12th Standard theory marks, of three science subjects only, are considered for the eligibility. Eligibility shall be determined based on the 'eligibility percentage'(as shown on next page), for preparing the merit lists.

For Faculty of Science (Main Campus) :

Location (Of School/ Exam Centre for 12 th Std.)	Social Category			
	SC/ ST	SEBC	All the other Reserve / Special Categories	General (Including EWS)
All the Districts of Gujarat	PASS	35%	40%	40%
Other States & Union Territories of India	PASS	50%	50%	50%

For M K Amin Arts and Science College (Padra Campus) :

Location (Of School/ Exam Centre for 12 th Std.)	Social Category			
	SC/ ST	SEBC	All the other Reserve / Special Categories	Open (Including EWS)
All the Districts of Gujarat	PASS	PASS	PASS	PASS
Other States of India & and Union Territories	PASS	PASS	PASS	PASS

SC: Scheduled Caste, ST: Scheduled Tribe, SEBC: Socially and Educationally Backward Class,
EWS:Economically Weaker Section

COMPUTATION OF ELIGIBILITY PERCENTAGE

Deduction for Multiple Attempts

If number of attempts in passing the qualifying examination is greater than 1, then **2% per each additional attempt is deducted** from the computed percentage of marks (% of three science subject theory). Non-appearance stages before passing the qualifying examination shall also be considered as extra attempt(s) and accordingly marks shall be deducted. The finally adjusted percentage may be called 'Eligibility Percentage'. If number of attempts is 1, the eligibility percentage is same as the computed percentage.

After passing the qualifying examination, if the candidate has a gap of more than 3 years then the candidate will be required to upload an **Undertaking Form** for the Gap period.

Addition of Marks for Sports Persons

The criteria for addition of up to 5 percentages are described in Point No. 5 (g). If any deduction or addition is required, then the student should do that to ensure her/ his eligibility accordingly and then proceed to fill application form.

RESERVATION OF SEATS

Government of Gujarat rules for the reservation quota will be applied: **SC: 7%, ST: 15%, SEBC: 27%**. The remaining **51% seats will be open for all categories**. The scanned copies of all original certificates should be uploaded at the time of filling online application form. **If any relevant certificate is not uploaded, the candidate will NOT be considered for the claimed reservation category.**

A candidate, irrespective of her/his reservation category, for admission, will be first considered for Open category (open for all) based on merit

- a) The **SC and ST applicants of other than Gujarat state** should upload a certificate from competent authority of Government of Gujarat if their original certificate DO NOT indicate that their caste / Tribe is recognised under such category in Gujarat also.
- b) The **SEBC category applicants** are required to produce a valid **non creamy layer certificate** from competent authority .
- c) There will be **10 %** supernumerary seats for **Economically Weaker Sections (EWS)** (additional seats over and above the total number of available seats), reserved for the **candidates from Gujarat State only**. Within this 10% quota, **33%** seats shall be further sub-reserved for female students belonging to the same Economically Weaker Sections. A certificate of EWS category issued by a competent authority must be uploaded to avail reservation under this category .
- d) **Reservation for physically disabled students: 5%** of the total seats are reserved for the persons with benchmark disability in accordance with the provisions of the section 32 of the rights of persons with Disabilities ACT, 2016. They should produce a recent/current year certificate of Civil Surgeon stating the type of disability, extent (%) of disability and state (Progressive/ non progressive) of disability. Only those students who have **minimum 40% disability** are eligible to be considered for the reservation. A scanned copy of this certificate must be uploaded, while filling the application form, for claiming the reservation under this category.
- e) **Reservation for wards of Defence persons (Ex/In- Service): 1%** of the total seats are reserved under this category. The scanned copy of a certificate issued by competent authority must be uploaded for claiming reservation under this category.
- f) **Reservation for Kashmiri Migrants: 1%** of total seats are available as supernumerary seats reserved for this category.
- g) **Advantage to Sports Persons: Please note that the benefit to sports persons is granted ONLY if the candidate has participated/ received medals in State level or higher-level competitions.** The scanned copy of a certificate issued by competent authority must be uploaded to avail this benefit.
 - i. Students who participated at State level event: **3% marks** to be added in their computed percentage.
 - ii. Students who won a medal at State level or participated at National level: **5% marks** to be added in their computed percentage.
 - iii. Students who won a medal at National level or participated / won a medal at International level: **Direct admission shall be granted.**

- h) **Reservation for wards of the Staff of the University:** 01% of total seats are available as supernumerary seats reserved for the wards of the in-service staff of The Maharaja Sayajirao University of Baroda. This reservation is available only for the seats under regular fees category. The scanned copy of a certificate issued by competent authority must be uploaded to avail this benefit.
- i) If the seats remain vacant after stipulated admission rounds in the SC/ ST reservation category s, then **these seats can be interchanged among SC/ ST.**
- j) After granting admission to all the students of any reserved category on respective reserved seats, if the seats remain vacant then **these seats shall be transferred to General category seats.**
- k) Supernumerary seats which remain vacant **shall NOT be transferred to any other category.**

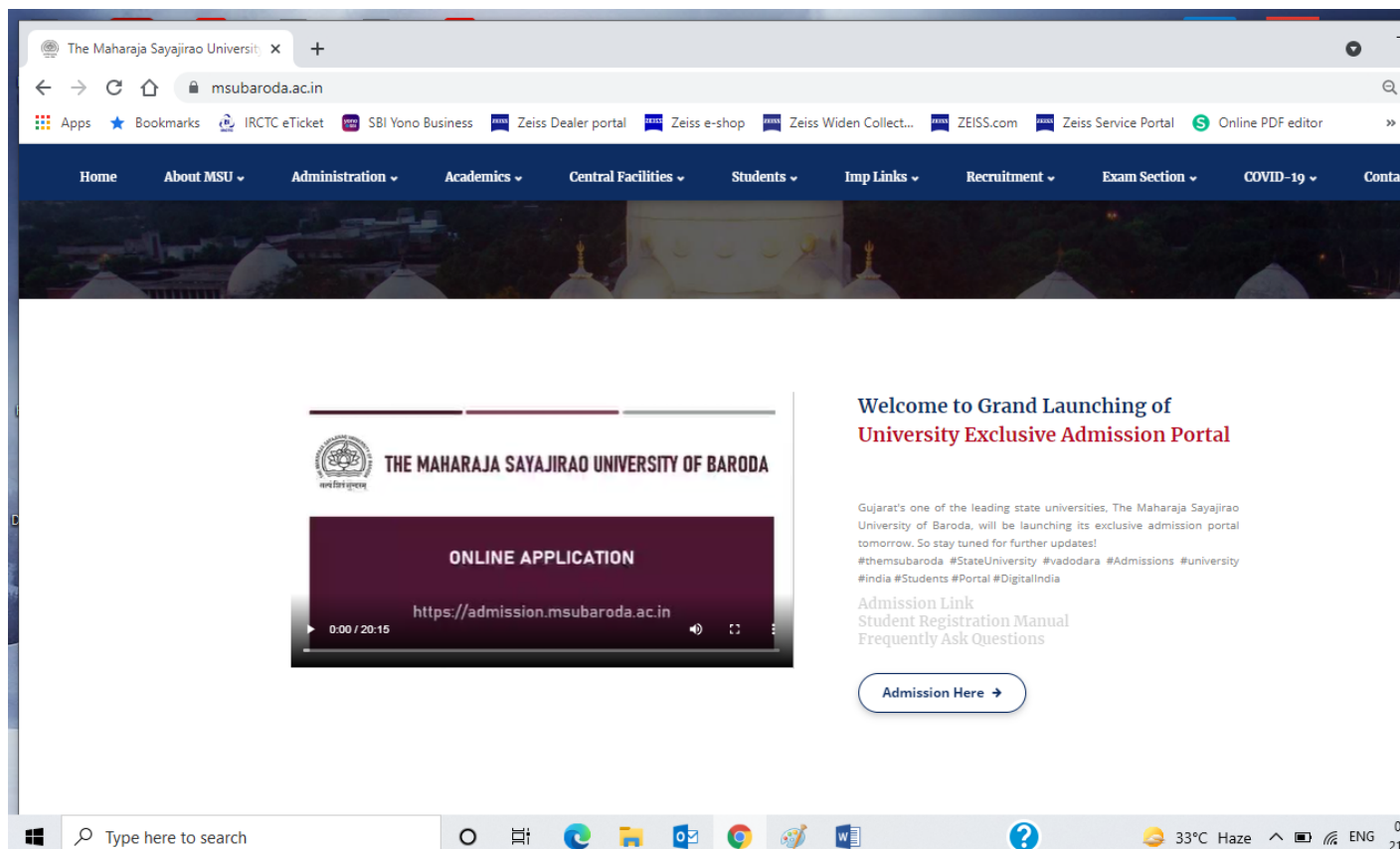
ADMISSION PROCEDURE

1. REGISTRATION

Homepage on <https://www.msubaroda.ac.in/> of The Maharaja Sayajirao University of Baroda provides link for Registration and Application for Admissions. The link can be visited by clicking on **Admission 2021** or **Admission Link** or **Admission here**.

A tutorial link for **Student Registration Manual** and **Frequently asked questions** are also available for assistance and guidance for registration, on the same page.

Candidates are strongly advised to carefully understand the online Registration and Application procedure by watching the training video provided on homepage.



The candidate is first required to do the Registration before going for Application to a particular programme.

The candidate is required to do the Registration ONLY ONCE even if he/she wants to apply for different Undergraduate Programmes offered by Faculty of Science.

The candidate is required to do separate Application for different Undergraduate Programmes offered by Faculty of Science.

Applications for BSc -Faculty of Science and BSc -M K Amin College, Padra must be done separately.

On visiting the page admission.msubaroda.ac.in and then selecting Faculty of Science in the menu bar, the complete list of various Under graduate and Post graduate programs offered by the Faculty of Science will appear.

Bachelor of Science (B.Sc. Honors) - (FACULTY OF SCIENCE, MAIN CAMPUS)

- I) The candidate should complete the online registration and then go for the application process as explained in the training video. Once the candidate's Registration is completed and personal information verified by him/her, a **Userid and Password** shall be generated online and shall be sent to the **registered mobile number of the candidate** through sms. This Userid and Password should be kept securely, as the candidates will be able to log into their accounts through these credentials only. Before filling in the application form, student is expected to download the **Prospectus and Admission Guidelines for BSC Admissions 2021** and thoroughly understand the information and admission procedure. For any doubt regarding Registration/Application or the admission process of the program, candidate can correspond through email on queries.msuis-cc@msubaroda.ac.in or contact **Student Facilitation Centre** at Faculty of Science.

2. ONLINE APPLICATION FORM

Provide all the details asked in the online application form including the details of passing the qualifying examination. The student is categorized as belonging to Vadodara district or Other districts of Gujarat or Other States and Union Territories of India based on the **location of the school from where the student has passed the qualifying examination or the location of exam centre in case of open school.**

3. LIST OF DOCUMENTS TO BE UPLOADED

Scanned copies of the documents listed below must be uploaded while filling the online application form. **A candidate will not be considered for a reservation category if the corresponding documents are not uploaded.**

- **For ALL Candidates**
 - a. H. S. C. (12th Std. Science) or equivalent mark sheet
 - b. Attempt Certificate
 - a. School Leaving Certificate/Transfer Certificate (for birth date & school location)
 - c. S. S. C. (10th Std) or equivalent mark sheet
- Caste certificate [For SC/ST/SEBC Candidates]
- Non-creamy layer certificate [For SEBC candidates]
- Physical disability Certificate [For Physically Disabled Candidates]
- Defense person letter and dependability card/letter [For Defense Persons]
- Sports person certificate, as applicable [For Sports Persons]
- Economically Weaker Section certificate [For EWS Candidates]
- Kashmiri Migrant certificate [For Kashmiri migrant candidates]
- Employment Document for MSU Staff Quota [For wards of MSU Employee]

4. ADMISSION PORTAL FOR F.Y. B.SC.

After the last date of submission of online application form, the candidates will be provided login credentials, through email and sms, for the admission portal separately developed for the online admission process for admission in the First Year of B.Sc. (Honors) programme.

All the information and updates about the online admission process will be provided to the candidates through this portal only.

It is important to understand that the login credentials provided by the [Admission Portal](#) for Subject Preference Filling and Admission Rounds will be different from those provided after Registration. Candidates should keep both the login credentials secure.

5. ADMISSION ROUNDS

A schedule of admission rounds will be published on the admission portal.

Candidates will be invited to participate in the online admission rounds in the order of their merit.

The invited candidates will be required to confirm their participation through the admission portal.

Candidates not invited for participation in an admission round may be invited in a subsequent admission round if the vacant seats are available. **It is, therefore, advised that the candidates visit the admission portal on the scheduled dates for admission rounds.**

When a candidate decides to confirm his/her participation in an admission round, he/she will be presented a page on which the **subject group selections** are required to be done from the list given below based on his/her subject group at the qualifying examination (A or B or AB)

The participation of a candidate in an admission round shall be confirmed only after completing the subject group selection.

Subject Group Selection at Faculty of Science-Main Campus (see page no. 7)

Candidates must select as many subject groups as desired, specifying preference number for each subject group. Candidates are advised to select adequate number of subject groups (minimum five at least) to avoid non-availability of seats. Candidates will be considered for admission in the subject group in order of their preferences.

Subject Group Allocation

The University will verify the documents uploaded by candidates only for the candidates participating in an admission round. If any information is found incorrect or erroneous, the university reserves the right to either reject the application form or incorporate the corrections at its discretion. The decision of rejection/ correction shall be informed to the candidate and will be binding to the candidate.

After the verification of documents, subject groups will be allocated to the eligible candidates in order of their merit and as per their preferences. The information of the allocated subject group shall be sent to candidates through their registered email address and sms on their registered cell phone.

6. FEES PAYMENT

Candidates can confirm their admission by **making online payment of the fees** within three days from the date of the allocation of subject groups. The online payment of fees can be made through the admission portal only.

If the fee is NOT PAID within the stipulated time, the admission of candidate will automatically get cancelled and NO EXTENSION will be granted for the payment of fees.

The fee for TWO Semesters Grant In Aid BSC (Hons) Program, including Examination fee is:

Girls: Rs. 7640.00

Boys: Rs. 8840.00

The successful payment of fees will be reflected on the admission portal within 24 hours after the payment of fees. **Candidates are advised to preserve the transaction number and the fee receipt** which can be downloaded from the admission portal.

7. BETTERMENT OPTION

Those candidates who have confirmed their admission by payment of fees within the stipulated time will be provided an option to participate in the next round, if any, for betterment of the subject group allocated to them.

Candidate can opt for betterment through the admission portal after successful payment of fees.

It is therefore necessary to confirm the admission by paying the fees if a candidate is desirous of getting a subject group of a higher preference.

EVALUTION SCHEME

A. Theory: There will be mid-semester and end-semester examinations

1. All mid-semester examinations will be conducted by respective departments. However, they will be centrally coordinated by the faculty examination cell.
2. Marks obtained in the Mid-semester examination will have 30% weightage and will be carried forward in case of ATKT while the marks obtained in the End-semester examination will have 70% weightage. The weighted total of marks obtained in mid & end semester examinations will be considered for awarding the final grade point of the course.
(University reserves the right to change this distribution of weights)
3. Examination papers of theory courses will contain 40% objective questions and 60% subjective/descriptive questions.

B. All Practical courses will have continuous evaluation.

GRADE POINT SYSTEM

A system comprising of 7 grade points (4 to 10) will be followed for evaluating a candidate in every course. Both mid-semester and end-semester exams are counted for final grade points.

Grade Points	Description	Percentage of Marks	Division/ Grade	Range
10	Outstanding	90% - 100%	First / O	Above 9.01
9	Excellent	80% - 89.9%	First / A	8.01 - 9.00
8	Very Good	70% - 79.9%	First / B	7.01 - 8.00
7	Good	60% - 69.9%	First / C	6.01 - 7.00
6	Fair	50% - 59.9%	Second /D	5.01 - 6.00
5	Average	40% - 49.9%	Pass / E	4.01 - 5.00
4 - 0	Dropped	Below 40%	F	Below 4.00

Semester Grade Point Average (SGPA) = $\sum (\text{Credit} \times \text{Grade Points}) / \text{Total Credits}$

AWARD OF CLASS

Marks-sheets of semester I to V of B. Sc. will simply indicate the result as either Pass or Fail or ATKT but not the class which will be indicted only in the last Semester mark sheet. The class will be awarded based on the Cumulative Grade Point Average (CGPA), computed as: $\text{CGPA} = \sum (\text{Semester credits} \times \text{SGPA}) / \text{Total Semester Credits}$

The sum is taken over from Sem-I to Sem-VI for B. Sc.

The award of class will be as shown in the table given below.

CGPA	Class
CGPA < 4	Fail
$4 \leq \text{CGPA} < 5$	Pass Class
$5 \leq \text{CGPA} < 6$	2nd Class
$6 \leq \text{CGPA} < 7$	1st Class
CGPA ≥ 7	Distinction

CRITERION FOR THE AWARD OF B. Sc. (Hons) DEGREE

For obtaining B. Sc. (Hons) degree in any subject, a candidate must earn total 144 Credits during the B. Sc. Programme consisting of six semesters.

IMPORTANT

- ? **The admissions will be strictly based on the merit.** Just fulfilling the eligibility criteria **DOES NOT GUARANTEE** admission.
- ? **The admission to any of the course is PURELY TEMPORARY** and subjected to various scrutiny till the unique Permanent Registration Number of the candidate is generated.
- ? **If the information provided by the candidate is incorrect or if any unfair practice is followed or the candidate is unable to submit any of the required certificates in the stipulated time period, her/his admission is liable to cancellation.**
- ? **For subjects like Botany, Geography, Geology and Zoology FIELD VISITS are COMPULSORY.** The duration in B. Sc. 1st and 2nd year is generally 1-3 days (within Gujarat) and in 3rd year it is generally 7 to 15 days (within India).

GENERAL RULES GOVERNING THE CONDUCT OF STUDENTS IN THE UNIVERSITY

1. A student must do nothing either inside or outside the University that will interfere with its orderly working and discipline.
2. This comprehensive rule covers most cases that are likely to arise. It forbids:
 - a. Impolite or unseemly behaviour in classroom or University premises during working hours of the College and the Faculty.
 - b. Attempt to persuade other students to abstain themselves from regular classes.
 - c. Damage to or defacement of University furniture, fittings and property.
 - d. Disobedience of notifications or instructions issued by the Principals/Deans/Heads of the Departments and Members of the staff duly authorized.
3. As per UGC regulation, stipulated attendance (Ordinance 183) is required for permitting students to appear for final examination. If unavoidably absent on account of health, urgent private affairs or other reasons, they must be prepared to state the exact reason for absence.
4. Students are expected to behave with courtesy towards the members of the staff, their fellow students and all visitors to the Institution.
5. Sexual harassment of any student will lead to severe punishments like suspension, rustication from the University / College/ Institution. Disciplinary action will be taken as prescribed under The M. S. University of Baroda rules.
6. Ragging is prohibited on MSU Campus, is a criminal offence and liable to severe punishment, including suspension, rustication and imprisonment.

Maintenance of Stipulated Attendance of Students

(Ordinance 183)

- i. In a semester an overall attendance of **at least 75%** of the number of lectures delivered and tutorials, seminars etc. arranged in all subjects, provided the total attendance in each of the subjects offered is **at least 60%**.
- ii. In a semester an overall attendance of **at least 80%** of the days allotted for practical classes and laboratory work in each

COMPULSORY THALESSEMIA BLOOD SCREENING

It has been made COMPULSORY for each new student taking admission in the University from academic year 2017-18. Final Eligibility of any student for admission to any course to this University will be granted ONLY after she/ he submits report of the Thalassemia blood screening.

Students are encouraged to get the test done either at University Health Centre, Red Cross Society Lab or any Private Pathology Lab and submit a copy of the report at the time of On the Spot Admission.

Note: The information contained in this prospectus is for general guideline only and is subject to change from time to time by the University

Prof. H. R. Kataria

**Dean, Faculty of Science, The Maharaja Sayajirao University of Baroda,
Vadodara – 390002, Gujarat, India**

Ph: 0265 2795329 (office), 8141332160 (Mobile)

(During office hours only)

Website: www.msubaroda.ac.in , E-mail: admission-science@msubaroda.ac.in



“The full-blown lotus growing out of the lake symbolises the emergence of the mind and its triumph over matter. The flame rising from the center of the lotus is the flame of the human knowledge, spreading light and learning for the coming generations. The motto inscribed below the lotus defines the purpose and existence of life which is love of beauty, goodness and intellectual curiosity.”



महाराजा सयाजीराव विश्वविद्यालय गीत

अमे वडोदराना विद्यापीठना सपना सारवनारा
अमे ज्योत जलावी सृष्टी नवली सहसा सर्जनहारा.

अमे गगमकुसुम कर धरनारा
अमे मगन मगन थई फरनारा
अगन बाथ अमे भरनारा
अमे दैन्यतिमिरने हरनारा.

श्री सयाजी विद्यापीठना ज्ञानदीपने धरनारा
सत्यं शिवं सुन्दरम् नो मंत्र अनंतर भणनारा.

सयाजीराव महाराज

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