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Highlights

- Established in 1937 by Shiromani Gurdwara Parbandhak Committee conferred with **Autonomous Status** by University Grants Commission (UGC) in December, 2018 which is to be implemented from the academic year 2019-20 onwards
- Recognized as **College with Potential for Excellence**
- Only College in Mumbai with recognition as **Scientific and Industrial Research Organization (SIRO)**, by Dept of Science & Technology (DST), Govt. of India
- Creation of **National Facility for Biopharmaceuticals (NFB)**, with funding of Rs. 3.85 Crores from DST, Govt. of India
- NFB has entered in an **MOU** with **STEMMED INDIA** for research on **Dental Stem Cells**.
- Took lead in developing innovative courses like Five Year Integrated Course in Bio-analytical Science, MSc in Bioinformatics, MSc in Nutraceuticals and MSc in Bio-analytical Sciences
- Awarded **FIST Grant** of Rs 82 lakhs by DST, Govt. of India in 2014
- Awarded **STAR College Grant** of Rs 80 lakhs by Department of Biotechnology (DBT), Govt. of India in 2015
- Recipient of **Best NSS Unit Award** from University of Mumbai
- Recipient of **Best NSS Program Officer** Award from University of Mumbai
- Recipient of **Best College Award** by University of Mumbai in 2012
- Recipient of **Championship Trophy** at AVISHKAR - State Level Research Convention initiated by Hon. Chancellor of University of Mumbai
- Excellent research credentials –
 - 34 Research Guides
 - 65 students enrolled for PhD till date
 - Received around Rs 3 crore research grants for 12 major research projects and 90 minor research projects from various agencies like UGC, DBT, DST and University of Mumbai



GURU NANAK KHALSA COLLEGE (AUTONOMOUS)

- International research collaboration with agencies like Ozo-innovations UK, Department of Biotechnology- Govt of India, Newton Bhabha, Jain Farm Fresh and University of Napier, Edinburgh (total project cost amounting to two million sterling pounds).

- Around 300 publications including books, 150 papers in international journals
- Recognition of students' research findings with gold and silver medals at State level in the Inter University Research Competition 'Avishkar'.

- 02 patents awarded

- Sporting excellence reflected in 1 Padmashri, 2 Arjuna awardees, 10 Olympians and 16 Shiv Chhatrapati awardees

- Set up Sports ki Pathshala to develop the sporting talent of street children
- Set up Anhad Naad School of Music for training students in Hindustani Vocal, Instrumental and Gurbani Kirtan

- Established Natyashraya, A Theatre Group for honing the theatrical skills of the students

- Established a Training Centre for Competitive Exams

- Established a National Language Development Laboratory through the CPE funds received from UGC

- Established Sikh Heritage Museum through the CPE funds received from UGC

- Set up an Entrepreneurship and Skill Development Cell funded by RUSA

GuruNanakInstituteofResearchandDevelopment(**GNIRD**),offers innovative Job-oriented Postgraduate Courses Viz;

M.Sc. in

- ÿ Nutraceuticals,
- ÿ Bio-AnalyticalSciences
- ÿ Bioinformatics
- ÿ FiveYearIntegratedPrograminBio-AnalyticalSciences

*College organizes **Inspire** program sponsored by **Dept. of Science & Technology (DST)** for JuniorCollegestudentsforpromotionofpurescience.*

AssistancetoneedySikhstudentsinthepaymentoffeesandpriorityinadmissions.

SeparatesectioninLibraryforbooksonSikhismandSikhLiterature.



Motto

“Essence of Wisdom is Service to Humanity”

Vision

To emerge as a Centre of Excellence in higher education

Mission

To create strong analytical minds with scientific temper; fostering global competencies through the spirit of humanism thereby bringing about holistic development of the students by remaining in sync with the teachings of Guru Nanak.

Quality Policy

‘To attain excellence in all our endeavors namely teaching, research and continuing education, adopt self-evaluation as a measure for continuous improvement and ensure accountability.’

The Institute believes and practices Guru Nanak Devji’s philosophy towards women, reflected in the shabad, empowering women.

ਮਃ ੧ ॥

ਭੰਡਿ ਜੰਮੀਐ ਭੰਡਿ ਨਿੰਮੀਐ ਭੰਡਿ ਮੰਗਣੁ ਵੀਆਹੁ ॥

ਭੰਡਹੁ ਹੋਵੈ ਦੋਸਤੀ ਭੰਡਹੁ ਚਲੈ ਰਾਹੁ ॥

ਭੰਡੁ ਮੁਆ ਭੰਡੁ ਭਾਲੀਐ ਭੰਡਿ ਹੋਵੈ ਬੰਧਾਨੁ ॥

ਸੇ ਕਿਉ ਮੰਦਾ ਆਖੀਐ ਜਿਤੁ ਜੰਮਹਿ ਰਾਜਾਨ ॥

ਭੰਡਹੁ ਹੀ ਭੰਡੁ ਉਪਜੈ ਭੰਡੈ ਬਾਝੁ ਨ ਕੋਇ ॥

ਨਾਨਕ ਭੰਡੈ ਬਾਹਰਾ ਏਕੋ ਸਚਾ ਸੋਇ ॥

ਜਿਤੁ ਮੁਖਿ ਸਦਾ ਸਾਲਾਹੀਐ ਭਾਗਾ ਰਤੀ ਚਾਰਿ ॥

ਨਾਨਕ ਤੇ ਮੁਖ ਉਜਲੇ ਤਿਤੁ ਸਚੈ ਦਰਬਾਰਿ ॥੨॥

: First Mehl :

From woman, man is born; within woman, man is conceived; to woman he is engaged and married.

Woman becomes his friend; through woman, the future generations come.

When his woman dies, he seeks another woman; to woman he is bound.

So why call her bad? From her, kings are born.

From woman, woman is born; without woman, there would be no one at all.

O Nanak, only the True Lord is without a woman.

That mouth which praises the Lord continually is blessed and beautiful.

O Nanak, those faces shall be radiant in the Court of the True Lord.

॥2॥

(Translated Version of the Shabad)



GURU NANAK KHALSA COLLEGE (AUTONOMOUS)



I. Introduction

Guru Nanak Khalsa College is one of the premier institutions Mumbai, founded (1937) and managed by the Shiromani Gurdwara Parbandhak Committee (SGPC), Amritsar, Punjab. This is the first college to be established by the Community outside Punjab on the advice of the eminent social reformer and architect of the Indian Constitution, Bharat Ratna Dr. Babasaheb Ambedkar. The College has completed 83 years of its glorious existence.

The College is ideally located in the heart of an education zone surrounded by well known institutes and schools, fostering a spirit of learning. The College comprises both the Degree and Junior colleges. The Degree College is affiliated to the University of Mumbai and Junior College to the Maharashtra State Board of Secondary and Higher Secondary Education.

Being a Sikh minority college, the College has an in house *Gurdwara* to nurture the values of *Guru Nanak Devji*. The College, however, retains its secular outlook as it firmly believes in the Sikh ideology of Oneness of Humanity and prides itself on its cosmopolitan staff and student population and a healthy, secular atmosphere.

The academic year begins with the recital of '*Akhand Path Saheb*'. This is followed by '*Guru Ka Langar*' in which all the students partake, creating a sense of harmony.

II. Code of Conduct

With a view to maintain a healthy, conducive and disciplined atmosphere in the College, every student is required to observe the following rules of conduct. Student found violating the code of conduct will comply with all disciplinary sanctions imposed by the college.

- ÿ Every Sikh student who is admitted to the College is required to wear a proper turban. No admission form will be accepted without the student's photograph in a proper turban.
- ÿ The student will be liable for strict disciplinary action amounting to dismissal from the College, if the Sikh culture is defiled in any way.
- ÿ Students should be regular in their attendance. Students who fail to have 75% attendance will not be eligible to sit for the final examination/Sessional Examination as per rules of Board/University.
- ÿ Class routines notice for public holidays, schedule of examinations etc. will be put up on the Notice Boards as well as on College Website. Students are advised to check the Notice Boards as well as the College Website from time to time.
- ÿ Every student is required to wear his / her college identity card. Students without identity card are not permitted to enter the College premises. The identity card becomes invalid if it is tampered with, by a change of the photograph or by an alteration of personal information.
- ÿ The College and its environs are deemed to be a mobile free zone. Mobile phones, if any, shall be switched off on the College campus. If found using it, the student will be liable to have his / her mobile phone confiscated by the college authorities or will have to face disciplinary action. Students are prohibited from carrying mobile phones into the examination hall. **Possession of mobile phones in the examination hall amounts to unfair means.**
- ÿ The College authorities shall not be held responsible for any loss / theft of mobile phone or valuable articles.
- ÿ Conduct of students in class as well as on the campus shall be such that it will cause no disturbance to fellow students, teachers or to other classes.
- ÿ Loitering within the College premises, talking loudly, whistling, etc. are strictly prohibited. Any student



found creating any kind of disturbance in the College is liable for severe punishment including suspension/rustication.

- ÿ Consumption of alcohol, tobacco in any form and smoking are strictly prohibited in the College premises.
- ÿ No association can be formed, funds raised, tickets sold or meetings held without the prior permission of the Principal. Students must not indulge in political work on the College premises.
- ÿ No notice can be put up without written consent of the Principal.
- ÿ Students are expected to use College property with utmost care. Destruction of College property/laboratory equipment / library books is subject to penalty & restitution. The amount of fine to be levied will be decided by the Principal and his decision on all such matters will be final and binding.
- ÿ No picnics, excursions, trips or social gatherings can be arranged by the students without written permission of the Principal. Picnics may be arranged with the written consent of at least one Professor who will accompany the students and will give a written undertaking that he would be responsible for the safety and good conduct of the participants. Students are expected to behave with dignity and restraint during picnics, trips and social events in order to maintain reputation of the College.
- ÿ Parking of vehicles including bicycles, motorcycles, scooters, cars, etc. is not permitted within the College compound.
- ÿ Though utmost care will be taken by the College, the parents must submit an undertaking that no responsibility attaches to the college for any untoward eventuality.
- ÿ Students should not communicate without prior permission of the Principal, any information, or write any information or write about any matter concerning/regarding the College administration to the Press/outside agencies.
- ÿ If continuance of a student in the College is detrimental to the best interest or discipline of the College, the Principal, may direct such a student to leave the College. The decision of the Principal shall be final and binding on the student.
- ÿ The College reserves the right to declare sudden, partial or full holidays due to unforeseen circumstances, Government directives and situations beyond its control. In such cases students cannot be intimated in advance. The decision of the College in this regard is final.
- ÿ Students involved in any case of ragging will attract the prohibitions (**University Circular No. 2005/38/05/vs-1 dated 18.7.2007**) and will be liable for cancellation of admission.
- ÿ **Dress Code**- Students are prohibited from dressing explicitly in a manner that offends the norms of decency and decorum. Male students are explicitly forbidden from wearing shorts / three fourth pants. Female students are prohibited from wearing shorts / miniskirts / spaghetti tops.

III. Curricula

Core-Curriculum

The College comprises both the Degree and Junior College. The Degree College is affiliated to the University of Mumbai and the Junior College to the Maharashtra State Board of Secondary and Higher Secondary Education.

The College offers, in addition to Arts, Science and Commerce streams (Aided & Self Financing), vocational and self-financing courses viz. Minimum Competency Vocational Course (MCVC), Computer



Science in the Junior College.



Rules of Admission

Admission is granted solely on merit as per University/ Government rules. Seats are reserved for the Sikh Minority community as per rules. Outstanding sports persons and children of defense / ex defense personnel and from the handicapped category are given weightage. A special provision is made to enroll students from the developing countries of Asia and Africa.

As per university norms vide Circular no. Aff./ICC/ (201718)/18/of 2018 two seats under Supernumerary Quota for students from Jammu & Kashmir are reserved.

Junior College

Eligibility Norms for ADMISSION TO JUNIOR COLLEGE:

After declaration of SSC result the State Government decides the schedule for admission to FYJC (XI) std and accordingly allot seats by the government through online process as per the norms from time to time.

Based on the allotment of seats by the state government, the student should visit college website www.gnkhalsa.edu.in for filling up of college admission form through online. After filling the online admission form the student has to take the print out of the form and submit it to the college along with the following for the confirmation of admission by payment of admission fee.

FOR GIRL FREE STUDENTSHIP: - Girl students are exempted from payment of certain fees by the State Government. To avail these benefits the Girl students are required to submit the Declaration Form along with ration card copy.

Documents Required along with the print out of the college admission form.

| For Home Board i.e. Maharashtra State Board | For Other Boards viz. CBSE/ICSC/Other State Boards |
|---|--|
| 1) SSC Mark-sheet – Xerox | 1) Eligibility Application form duly filled |
| 2) School Leaving Certificate – in Original | 2) Deed of Undertaking on Rs. 100/- Stamp Paper |
| 3) Online Registration Form – in Original | 3) Mark-sheet – Original |
| 4) Aadhar Card Photocopy | 4) Passing Certificate – Original |
| 5) For Girls: Ration Card Photocopy + Declaration form duly filled in. | 5) Migration Certificate issued by the previous Board |
| | 6) Leaving Certificate / Transfer Certificate duly countersigned by the appropriate education authority. |
| | 7) Aadhar Card Photocopy |
| | 8) For Girls: Ration Card Photocopy + Declaration form duly filled in. |



Courses offered at Junior College.

| STREAM | SUBJECTS | STREAM | SUBJECTS |
|----------|--|---|--|
| Arts | <input type="checkbox"/> English <input type="checkbox"/> Environmental Education <input type="checkbox"/> Health and Physical Education (ANY ONE OF THE FOLLOWING) Optional Subjects (ANY FOUR OF THE FOLLOWING) <input type="checkbox"/> History <input type="checkbox"/> Political Science <input type="checkbox"/> Economics <input type="checkbox"/> Logic <input type="checkbox"/> Sociology <input type="checkbox"/> Hindi OR <input type="checkbox"/> Marathi OR <input type="checkbox"/> Punjabi OR <input type="checkbox"/> French <input type="checkbox"/> Hindi (If not offered as a Compulsory Language) | Science | English Environmental Education Health and Physical Education (ANY ONE OF THE FOLLOWING LANGUAGE) <input type="checkbox"/> Hindi OR <input type="checkbox"/> Marathi OR <input type="checkbox"/> Punjabi OR <input type="checkbox"/> French (OTHER SUBJECTS) Physics Chemistry Mathematics* Biology* Optional subjects in place of Mathematical/Biology. Economics (Limited seats) Sociology (Limited seats) These optional subjects will be available only on permission granted by the college. |
| Commerce | English Environmental Education Health and Physical Education (ANY ONE OF THE FOLLOWING) <input type="checkbox"/> Hindi OR <input type="checkbox"/> Marathi OR <input type="checkbox"/> Punjabi OR <input type="checkbox"/> French Others subjects: <input type="checkbox"/> Organization of Commerce <input type="checkbox"/> Book-Keeping <input type="checkbox"/> Economics <input type="checkbox"/> Mathematics & Statistics Or Secretarial Practice (limited seats) | Bifocal Electronics/ Bifocal Computer Science | <input type="checkbox"/> English <input type="checkbox"/> Environmental Education <input type="checkbox"/> Health and Physical Education <input type="checkbox"/> Physics <input type="checkbox"/> Chemistry <input type="checkbox"/> Mathematics <input type="checkbox"/> Bifocal Computer Science Or Bifocal Electronics |
| | | M.C.V.C. (Minimum Competency Vocational Course) | <input type="checkbox"/> English <input type="checkbox"/> Environmental Education <input type="checkbox"/> Health and Physical Education (ANY ONE OF THE FOLLOWING) <input type="checkbox"/> Hindi <input type="checkbox"/> Marathi <input type="checkbox"/> Punjabi <input type="checkbox"/> French OTHER SUBJECTS <input type="checkbox"/> General Foundation Course <input type="checkbox"/> Electronics Technology-I, II & III |

* Students offering SP should pay additional fee for the said subject.



1. Degree College (Aided Courses)

Eligibility Criteria

(Refer to University of Mumbai website - www.mu.ac.in for eligibility & Ordinances regarding courses)

First Year:

Qualifying examination required: SYJC Examination of MSBSE or any other examination recognized as equivalent thereto as per eligibility norms presented by Mumbai University on their website www.mu.ac.in.

Documents required: As per the notification of the University of Mumbai.

Students from other institutions will be required to submit their leaving/Transfer Certificate/NOC. Those passing the first year of any other Board / University have to submit the 'PROVISIONAL ELIGIBILITY CERTIFICATE' from the University of Mumbai; Final Eligibility Certificate is to be submitted by the end of first term.

Second Year

A student of F.Y. Arts and Commerce is eligible to take admission in S.Y. (Semester III) if he/she has cleared all the courses of Semester I and Semester II or has failed in not more than four Courses in the Semester I & Semester II taken together. (However, the student should not fail in more than two Courses in each Semester.)

A student of F.Y. Science is eligible to take admission in S.Y. (Semester III) if he has cleared all the courses of Semester I and Semester II or has failed in not more than six Courses in Semester I and Semester II taken together but has failed in not more than three Courses in each Semester.

The students who have cleared the first year ATKT examination are also eligible for admission to the second year as per University norms.

Documents required: Original and attested photocopy of the SYJC & First Year (Both Semesters or ATKT) marksheets & proof of residence, Aadhar Card, Voter ID

Third Year

Should have cleared First Year and Second Year Examination of the University of Mumbai or any examination recognized as equivalent thereto. (The rules of ATKT in force, if any, will be applicable)

Documents required: Original and attested photocopy of the SYJC, First Year & Second Year mark-sheets & proof of residence, Aadhar Card, Voter ID.

Remarks: Students from other institutions will be required to submit their leaving / Transfer Certificate / Migration Certificate. Those passing the Second Year from any other University have to submit the 'PROVISIONAL ELIGIBILITY CERTIFICATE' from the University of Mumbai. Final Eligibility Certificate is to be submitted by the end of first term.



2) Self Finance Courses Eligibility

First Year Information Technology

Should have passed XII standard examination from Maharashtra Board or its equivalent with Mathematics and Statistics as one of the subject and should have secured not less than 50% marks in aggregate for open category, 40% marks in aggregate in case of reserved category candidate.

Second Year Information Technology

Should have passed Diploma (Three years after S.S.C. Xth std.) in Information Technology / Computer Technology / Computer Engineering / Computer Science / Electrical Electronics, Video Engineering and allied branches. Mechanical and allied branches / Civil and allied branches of Engineering are eligible for direct admission to the second year of the B.Sc. (I.T.) degree course.

OR

Candidates with post HSC – Diploma in Information Technology / Computer Technology / Computer Engineering / Computer Science / and allied branches will be eligible for direct admission to the second year of B.Sc.(I.T).

Diploma should be recognized by the Board of Technical Education or any other recognized Govt. body. Minimum marks required: 45% aggregate for open category candidates and 40% aggregate for reserved category candidate.

Computer Science

Should have passed XII standard examination from Maharashtra Board or its equivalent with Science stream and with Mathematics & Statistics as one of the subjects.

B.Com Accounting & Finance (BAF)

A candidate, for being eligible for admission to the Bachelor of Commerce (Accounting Finance) degree course shall have passed XII std. examination of the Maharashtra Board of Higher Secondary Education or its equivalent and secured not less than 45% marks in aggregate at first attempt (40% in case of reserved category)

Every candidate admitted to the Degree course in the constituent / affiliated college, recognized institution, conducting the course, shall have to register himself / herself with the University.

B.Com Banking & Insurance (BBI) & B.Com (Financial Markets (BFM)

A candidate, for being eligible for admission to the Bachelor of Commerce (Banking & Insurance) & (Financial Markets) degree course shall have passed XII std. examination of Maharashtra Board of Higher Secondary Education or its equivalent and secured not less than 45% marks in aggregate in one and the same sitting (40% in case of reserved category).

Every candidate admitted to the Degree course in the constituent / affiliated college, recognized institution, conducting the course, shall have to register himself / herself with the University.

Bachelor Science in Biotechnology

Mathematics as one of the subjects at XII th Science. Provisional admission will be given if Mathematics is not on part of student with regard to eligibility of the subjects XII Science till the student clears the Mathematics proficiency test.



Bachelor of Arts in Multimedia and Mass Communication - B.A. (M.M.C) (formerly BMM)

A candidate, for being eligible for admission to the degree course in Bachelor of Mass Media shall have passed XII std. examination of the Maharashtra Board of Higher Secondary Education or its equivalent, from the Science, Arts or Commerce streams.

Bachelor of Management Studies (BMS)

A candidate, for being eligible for admission to the BMS degree course shall have passed HSC examination of the Maharashtra Board of Higher Secondary Education or its equivalent examination or Diploma in any Engineering branches with two years or three years duration after SSC, conducted by the Board of Technical Education, Maharashtra state or its equivalent examination by securing minimum 45% marks for general category (in one attempt) at the respective examination and minimum 40% marks for the reserved category (in one attempt).

Five Years Integrated M.Sc. Degree Course in Bio-analytical Sciences

Eligibility

- A candidate for being eligible for admission to the first year Integrated M.Sc. degree course in Bio-analytical Sciences must have passed Standard XII after 10 + 02 schooling (or equivalent) examination from any recognized board in India with minimum of 50% marks for students belonging to general category and 45% marks for students belonging to Reserved Category in aggregate or equivalent grade with Science Subjects- PCB or PCMB.
- A candidate without mathematics [Standard XII after 10 + 02 schooling (or equivalent) examination] can become eligible for admission provided he/she undertakes a bridge course and submits the certificate to the university.
- A candidate can take admission to the fourth year Integrated M.Sc. degree course in Bio-analytical Sciences by keeping the term of the third year (Semester V and VI).

NOTE:

In addition to the documents specified as may be required from time to time for and in connection with the admission and/or confirmation of admission / eligibility / enrollment by the University of Mumbai, students should also submit an undertaking for regular attendance and good conduct.

1. Rules of eligibility & enrollment are as per University of Mumbai on their website www.mu.ac.in. It is understood that the students seeking admission are completely aware of the rules, regulations / ordinances for admission & eligibility for the course that they have applied for.
2. Confirmation of admission is subject to fulfillment of eligibility & duly confirmed by the University of Mumbai.
3. **The admission will be confirmed as per the merit list and as per the date & time specified.**
4. The College will not be responsible for any lapse on part of student with regard to eligibility.

University norms related to attendance – Please check University website for the ordinance

pertaining to the same





3. COURSES OFFERED: AIDED

| Sr. No. | Class | Compulsory Subjects | Subject Combination Offered |
|---------|-------|---|---|
| 1. | FYBA | 1) Foundation Course-I 2) Communication Skills in English 3) Hindi/Marathi/Punjabi | 1) Economics / History / Philosophy 2) Economics / Philosophy / English Literature 3) Economics / History / Hindi Literature 4) Economics / History / Marathi Literature 5) Economics / History / English Literature 6) Economics / Hindi Literature / Marathi Literature 7) Economics / Statistics / Philosophy 8) Economics / Statistics / English Literature 9) Economics / Statistics / History 10) History / Hindi Literature / Marathi Literature 11) Economics / Mathematics / Statistics 12) History / Philosophy / English Literature 13) History / Philosophy / Hindi Literature 14) History / Philosophy / Punjabi Literature |
| 2. | SYBA | 1. Foundation Course-II AND Applied Component (any one) 2. Investment Analysis OR Comparative Religion OR Travel & Tourism | Optional Group (the options offered in First Year will continue) |
| 3. | TYBA | Single Major Subject (Six Units) <input type="checkbox"/> ENGLISH OR <input type="checkbox"/> MARATHI OR <input type="checkbox"/> HINDI OR <input type="checkbox"/> HISTORY OR <input type="checkbox"/> ECONOMICS OR <input type="checkbox"/> PHILOSOPHY OR <input type="checkbox"/> PUNJABI 3 UNITS & HISTORY 3 UNITS OR <input type="checkbox"/> PUNJABI 3 UNITS & PHILOSOPHY 3 UNITS | |



COURSES OFFERED: AIDED

| Sr. No. | Class | Compulsory Subjects | Subject Combination Offered |
|---------|--------|---|---|
| 4. | FYBSc | 1) Foundation Course - I | 1) Physics / Chemistry /Microbiology 2) Physics / Chemistry / Botany 3) Physics / Chemistry /Zooology 4) Chemistry / Botany /Zooology 5) Physics / Chemistry / Mathematics 6) Physics / Mathematics / Statistics 7) Economics / Mathematics /Statistics |
| 5. | SYBSc | 1) Foundation Course - II | 1) Physics / Chemistry 2) Chemistry / Botany 3) Chemistry / Zooology 4) Chemistry /Microbiology 5) Physics / Mathematics 6) Botany / Zooology 7) Mathematics / Statistics |
| 6. | TYBSc | Major in Any One 1) Physics 2) Chemistry 3) Botany 4) Zooology 5) Microbiology 6) Mathematics | Applied Component 1) Physics-ElectronicsInstrumentation 2) Chemistry - Drugs &Dyes 3) Botany - Horticulture 4) Zooology – FisheryBiology 5) Microbiology - Food Production &Processing 6) Mathematics - Computer Programming &SystemAnalysis |
| 7. | FYBCom | 1) Foundation Course - I | 1) Accountancy and Financial Management -I 2) Commerce - I (Business Development and Service Sector) 3) Business Economics 4) BusinessCommunication 5) Mathematics and Statistical Techniques 6) Environmental Studies |
| 8. | SYBCom | 1) Foundation Course - II | 1) Commerce -II 2) BusinessLaw 3) Business Economics 4) Accountancy and FinancialManagement 5) Advertising 6) Management Accounting /Auditing |
| 9. | TYBCom | 1) Marketing & Human Resource Management 2) BusinessEconomics | 1) Financial Accounting & Auditing(Financial Accounting) 2) Financial Accounting & Auditing(Cost Accounting &Auditing) 3) Direct and IndirectTaxation 4) Investment Analysis and Portfolio Management OR Computer System and Application |



COURSES OFFERED: SELF-FINANCED

1. B.M.M. nomenclature changed as B.A. in Multimedia and Mass Communication - B.A. (M.M.C)
2. B.Sc. Information Technology
3. B.Sc. Computer Science
4. B.Sc Biotechnology
5. T.Y.B.Sc Statistics (6 units)
6. Five year Integrated M.Sc. Degree Course in Bio-analytical Sciences
7. B.M.S.
- 8 B.Com. Accounting and Finance
9. B.Com. Banking & Insurance
10. B.Com. Financial Markets

| SELF-FINANCED COURSES | | | |
|-----------------------|----------------------------|--|--|
| Sr. No. | Class | Subjects | Subject |
| 1. | FYBA (MMC) Formerly BMM | Semester - I 1)Effective communication –I 2)Foundation course –I 3)Visual communication 4)Fundamentals of mass communication 5)Current Affairs 6)History of Media | Semester – II 1) Effective communication –II 2) Foundation course –II 3) Content Writing 4) Introduction to Advertising 5) Introduction to Journalism 6) Media, Gender & Culture |
| 2. | SYBA (MMC) Formerly BMM | Semester-III 1) Electronic Media – I 2) Corporate Communication and Public Relations 3) Media Studies 4) Introduction to Photography 5) Film Communication-I 6) Computers and Multimedia- I | Semester-IV 1) Electronic Media – II 2) Writing and Editing for Media 3) Media Laws and Ethics 4) Mass Media Research 5) Film Communication-II 6) Computers and Multimedia- II |
| 3. | TYBMM | Semester - V 1) Copy Writing 2) Media Planning and Buying 3) Consumer Behaviour 4) Brand Building 5) Advertising in Contemporary Society 6) AD Design | Semester - VI 1. Financial Management for Marketing and Advertising 2. Direct Marketing 3. Agency Management 4. Advertising and Marketing Research 5. Legal Environment and Advertising Ethics 6. Contemporary Issues 7. Digital Media |



| SELF-FINANCE COURSES | | | |
|----------------------|-------------------------------|---|---|
| Sr. No. | Class | Subjects | Subject |
| 4. | FYB.Sc. (IT) | Semester - I 1) Imperative Programming 2) Digital Electronics 3) Operating Systems 4) Discrete Mathematics 5) Communication Skills | Semester - II 1) Object oriented Programming 2) Microprocessor Architecture 3) Web Programming 4) Numerical and Statistical Methods 5) Green Computing |
| 5 | SYB.Sc. (IT) | Semester - III 1) Python Programming 2) Data Structures 3) Computer Networks 4) Database Management Systems 5) Applied Mathematics | Semester - IV 1) Core Java 2) Introduction to Embedded Systems 3) Computer Oriented Statistical Techniques 4) Software Engineering 5) Computer Graphics and Animation |
| 6 | TYB.Sc. (IT) | Semester – V 1) Software Project Management 2) Internet of Things 3) Advanced Web Programming 4) Artificial Intelligence OR Linux System Administration 5) Enterprise Java OR Next Generation Technologies | Semester – VI 1) Software Quality Assurance 2) Security in Computing 3) Business Intelligence Principles of Geographic Information Systems OR Enterprise Networking IT Service Management OR Cyber Laws |
| 7 | TYB.Sc. Statistics | Semester - V 1) Probability and Distribution Theory 2) Theory of Estimation 3) Biostatistics 4) Regression Analysis Using R Software (Elective) 5) Statistical Data Analysis using Python (Elective) 6) Computer Programming & System Analysis (Applied Component) -I | Semester - VI 1) Distribution Theory And Stochastic Processes 2) Testing of Hypothesis 3) Operation Research Technique 4) Actuarial Science (Elective) 5) Introduction To Six Sigma (Elective) 6) Computer Programming & System Analysis (Applied Component)-II |
| .8 | FYB.Sc. (Computer Science) | Semester - I 1) Computer Organization and Design 2) Programming with Python- I 3) Free and Open Source Software 4) Database Systems 5) Discrete Mathematics 6) Descriptive Statistics and Introduction to Probability 7) Soft Skills Development | Semester - II 1) Programming with C 2) Programming with Python– II 3) Linux 4) Data Structures 5) Calculus 6) Statistical Methods and Testing of Hypothesis 7) Green Technologies |



| Sr. No. | Class | Subjects | Subject |
|---------|-------------------------------|--|---|
| 9 | SYB.Sc. (Computer Science) | Semester-III 1) Theory of Computation 2) Core JAVA 3) Operating System 4) Database Management Systems 5) Combinatorics and Graph Theory 6) Physical Computing and IoT Programming 7) Skill Enhancement: Web Programming | Semester-IV 1) Fundamentals of Algorithms 2) Advanced JAVA 3) Computer Networks 4) Software Engineering 5) Linear Algebra using Python 6) .NET Technologies 7) Skill Enhancement: Android Developer Fundamentals |
| 10 | TYB.Sc. (Computer Science) | Semester-V 1) Artificial Intelligence 2) Linux Server Administration 3) Software Testing and Quality Assurance 4) Information and Network Security 5) Architecting of IoT 6) Web Services 7) Game Programming | Semester-VI 1) Wireless Sensor Networks and Mobile Communication 2) Cloud Computing 3) Cyber Forensics 4) Information Retrieval 5) Digital Image Processing 6) Digital Image Processing 7) Ethical Hacking |
| 11. | F.Y. B.Sc Biotechnology | Semester - I 1) Basic Chemistry-I 2) Basic Chemistry-II 3) Basic Life Sciences- : Biodiversity and Cell Biology 4) Basic Life Sciences-II : Microbial Techniques 5) Basic Biotechnology-I : Introduction to Biotechnology 6) Basic Biotechnology-II : Molecular Biology 7) Societal Awareness | Semester - II 1) Chemistry-I 2) Chemistry-II 3) Life Sciences-I : Physiology and Ecology 4) Life Sciences-II : Genetics 5) Biotechnology-I : Tissue Culture & Scientific Writing and Communication Skills 6) Biotechnology-II : Enzymology, Immunology and Biostatistics 7) Globalization, Ecology and Sustainable Development |
| 12 | S.Y. B.Sc Biotechnology | Semester-III 1) Biophysics 2) Applied Chemistry- I 3) Immunology 4) Cell Biology and Cytogenetic 5) Molecular Biology 6) Bioprocess Technology 7) Research Methodology | Semester-IV 1) Biochemistry 2) Applied Chemistry- II 3) Medical Microbiology 4) Environmental Biotechnology 5) Biostatistics and Bioinformatics 6) Molecular Diagnostics 7) Entrepreneurship Development |
| 13 | S.Y. B.Sc Biotechnology | Semester-V 1) Cell Biology 2) Medical Microbiology and Instrumentation 3) Genomes and Molecular Biology 4) Marine and Industrial Biotechnology | Semester-VI 1) Biochemistry 2) Industrial Microbiology 3) Pharmacology and Neurochemistry 4) Environmental Biotechnology 5) Applied Component - Applied Biotechnology |



| Sr. No. | Class | Subjects | Subject |
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| | | 5) Applied Component - Food Biotechnology and Bio-safety | |
| 14 | F.Y.I.C Bio-analytical Sciences | Semester-I 1) Foundation Course 2) Biological Sciences-I & II 3) Chemical Sciences-I & II 4) Computational Sciences-I & II | Semester-II 1) Foundation Course – I & II 2) Biological Sciences – I & II 3) Chemical Sciences – I & II 4) Computational Sciences – I & II |
| 15 | S.Y.I.C Bio-analytical Sciences | Semester-III 1) Financial management / Disaster Management 2) Biological Sciences III & IV 3) Chemical Sciences III & IV 4) Computational Sciences III & IV | Semester-IV 1) Financial management / Disaster Management 2) Biological Sciences III & IV 3) Chemical Sciences III & IV 4) Computational Sciences III & IV |
| 16 | T.Y.I.C Bio-analytical Sciences | Semester-V 1) Entrepreneurship skills (ACT) 2) Biological Sciences – V 3) Chemical Sciences - V& VI 4) Computational Sciences V | Semester-VI 1) Entrepreneurship skills (ACT) 2) Biological Sciences – V 3) Chemical Sciences - V& VI 4) Computational Sciences V |
| 17 | 4 TH .Y.I.C Bio-analytical Sciences | Semester-VII Fermentation technology and advanced microbiology Patents, drug act and Quality management Animal tissue culture, Pharmaceutics and Toxicology Omics and Pharmacokinetics and Pharmacodynamics | Semester-VIII Fermentation technology and advanced microbiology Patents, drug act and Quality management Animal tissue culture, Pharmaceutics and Toxicology Omics and Pharmacokinetics and Pharmacodynamics |
| 18 | 5 TH .Y.I.C Bio-analytical Sciences | Semester-IX 1) ASU and Food Management 2) Clinical Research and Good Practices 3) Research Methodology and Hyphenated Bio-analytical Techniques | Semester-X 1) ASU and Food Management 2) Clinical Research and Good Practices 3) Research Methodology and Hyphenated Bio-analytical Techniques |
| 19 | F.Y.BCom -BAF | Semester-I 1) Financial Accounting (Elements of Financial Accounting) – I 2) Cost Accounting (Introduction and Element of cost) – I 3) Financial Management (Introduction to Financial Management) – I 4) Business Communication – I 5) Foundation Course-I 6) Commerce (Business Environment)-I 7) Business Economics - I | Semester-II 1) Financial Accounting (Special Accounting Areas) – II 2) Auditing (Introduction and Planning) – I 3) Taxation - I (Indirect Taxes I) 4) Business Communication – II 5) Foundation Course-II 6) Business Law (Business Regulatory Framework) – I 7) Business Mathematics |



| Sr. No. | Class | Subjects | Subject |
|---------|---------------|--|---|
| 20 | S.Y.BCom -BAF | <p>Semester-III</p> <p>1 to 3) Elective course (Any three courses from the following)</p> <p>I. Financial Accounting (Special Accounting Areas) – III</p> <p>II. Cost Accounting (Methods of Costing) – II</p> <p>III. Auditing (Techniques of Auditing and Audit Procedures) – II)</p> <p>IV. Taxation - II (Direct Taxes Paper- I)</p> <p>V.Principles & Practices of Banking</p> <p>4) Information Technology inAccountancy – I</p> <p>5) Elective Course (Any one of the following)</p> <p>i. Foundation Course in Commerce (Financial Market Operations) – III</p> <p>ii. Foundation Course- Contemporary Issues- III</p> <p>iii. Foundation Course in NSS – III</p> <p>iv. Foundation Course in NCC – III</p> <p>v. Foundation Course in Physical Education – III</p> <p>6. Business Law (Business Regulatory Framework) – II</p> <p>7. Business Economics - II</p> | <p>Semester – IV</p> <p>1 to 3) Elective course (Any three courses from the following)</p> <p>I. Financial Accounting (Special Accounting Areas) – IV</p> <p>II. Management Accounting (Introduction to Management Accounting)</p> <p>III. Auditing-III</p> <p>IV. Taxation - III (Direct Taxes- II)</p> <p>V. Wealth Management</p> <p>4) Information Technology in Accountancy – II</p> <p>5) Elective Course (Any one of the following)</p> <p>i. Foundation Course in Commerce (Financial Market Operations) – IV</p> <p>ii. Foundation Course- Contemporary Issues- IV</p> <p>iii. Foundation Course in NSS – IV</p> <p>iv. Foundation Course in NCC – IV</p> <p>v. Foundation Course in Physical Education – IV</p> <p>6) Business Law (Company Law) – IV</p> <p>7). Research Methodology in Accounting & Finance</p> |
| 21 | T.Y.BCom -BAF | <p>Semester – V</p> <p>1 to 4 – Elective Course (any 4)</p> <p>i. Cost Accounting - III</p> <p>ii. Financial Management – II</p> <p>iii. Taxation -IV (Indirect Taxes - II)</p> <p>iv. International Finance</p> <p>v. Financial Analysis and BusinessValuation</p> <p>vi. Management -II (Management Applications)</p> <p>5. Financial Accounting – V</p> <p>6. Financial Accounting - VI</p> | <p>Semester-VI</p> <p>1 to 4 – Elective Course (any 4)</p> <p>i. Cost Accounting - IV</p> <p>ii. Financial Management – III</p> <p>iii. Taxation -V (Indirect Taxes - III)</p> <p>iv. Security Analysis and PortfolioManagement</p> <p>v. ManagementControl Systems</p> <p>vi. Economics Paper– III</p> <p>5. Financial Accounting – VII</p> <p>6. Project Work</p> |
| 22 | FYBBI | <p>Semester-I</p> <p>1) Environment and Management of Financial Services</p> <p>2) Principles of Management</p> <p>3) Financial Accounting-I</p> <p>4) Business Communication-I</p> <p>5) Foundation course – I</p> <p>6) Business Economics-I</p> | <p>Semester-II</p> <p>1) Principles and Practices of Banking & Insurance</p> <p>2) Business Law</p> <p>3) Financial Accounting – II</p> <p>4) Effective Communication-II</p> <p>5) Foundation course – II</p> <p>6) Organizational Behaviour</p> |



| Sr. No. | Class | Subjects | Subject |
|---------|----------------------------|---|--|
| | | 7) Quantitative Methods-I | 7) Quantitative Methods-II |
| 23 | SYBBI | Semester-III 1) Management Accounting -I 2) Organizational Behaviour 3) Mutual Fund Management 4) Information Technology in Banking & Insurance – I 5) Foundation Course – IV (An Overview of Insurance Sector) 6) Financial Markets 7) Direct Taxation | Semester-IV 1) Cost Accounting 2) Entrepreneurship Management 3) Customer Relationship Management 4) Information Technology in Banking & Insurance-II 5) Foundation Course – IV (An Overview of Insurance Sector) 6) Corporate & Securities Law 7) Business Economics-II |
| 24 | TYBBI | Semester-V 1) Auditing- I 2) Strategic Management 3) Financial Services Management 4) Business Ethics and Corporate Governance 5) International Banking and Finance 6) Research Methodology | Semester-VI 1) Auditing – II 2) Human Resource Management 3) Turnaround Management 4) International Business 5) Central Banking 6) Project Work in Banking & Insurance |
| 25 | FYBCOM (Financial Markets) | Semester-I 1) Financial Accounting – I 2) Introduction to Financial Systems 3) Business Mathematics 4) Business Communication – I 5) Foundation Course – I 6) Business Environment 7) Business Economics - I | Semester-II 1) Financial Accounting- II 2) Principles of Management 3) Business Statistics 4) Business Communication -II 5) Foundation Course – II 6) Environmental Science 7) Computer Skills – I |
| 26 | SYBCOM (Financial Markets) | Semester-III 1 TO 3) Discipline Related Elective Courses (DRE)- Select any three I. Debt Market- 1 II. Equity Market- 1 III. Commodities Market IV. Portfolio Management V. Treasury Management 4) Business Law – 1 5) Foundation Course - in Financial Markets- FC III – Money Market 6) Management Accounting 7) Computer Skills -2CommoditiesDerivatives | Semester-IV 1) Debt Markets-2 2) Equity Markets-2 3) Commodities Derivatives 4) Business Law – 2 5) Foundation Course in Financial Markets FC IV- Foreign Exchange Markets 6) Corporate Finance 7) Business Economics – 2 |
| 27 | TYBCOM (Financial Markets) | Semester-V 1 TO 4) Elective Courses (ANY 4) i. Marketing in financial Services ii. Technical analysis iii. Corporate Accounting iv. Equity Research v. Direct Tax- Income Tax vi. Business Valuation 5) Financial Derivatives 6) Business Ethics and Corporate Governance | Semester-VI 1 TO 4) Elective Courses (ANY 4) i. Venture Capital and Private Equity ii. Mutual Fund Management iii. Organizational Behaviour iv. Strategic Corporate Finance v. Indirect Tax- GST vi. Corporate Restructuring 5) Risk Management 6) Project Work |



| Sr.No. | Class | Subjects | Subject |
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| 28 | FYBMS | Semester - I I Core Courses 1) Introduction to FinancialAccounts 2) Business Law 3) Business Statistics 4) Business Communications - I 5) Foundation of HumanSkills 6) Business Economics - II Ability Enhancement Courses 7) Foundation Course - I | Semester - II I Core Courses 1) Principles ofMarketing 2) Industrial Law 3) Business Mathematics 4) Business Communication - II 5) BusinessEnvironment 6) Principles ofManagement II Ability Enhancement Courses 7) Foundation Course - II |
| 29 | SYBMS | Semester - III 1) Finance Group- Electives i. Basics of Financial Services ii. Introduction to Cost Accounting OR 1) Marketing Group- Electives i. Consumer Behaviour ii. Advertising OR 1) Human Resource Group- Electives i. Motivation & Leadership ii. Organizational Behavior & HRM 2) Information Technology in Business Management – I 3) Foundation Course (Environmental Management) – III 4) Business Planning & Entrepreneurial Management 5) Accounting for Managerial Decisions 6) Strategic Management | Semester - IV 1) Finance Group- Electives i. Financial Institutions & Markets ii. Auditing OR 1) Marketing Group- Electives i. Integrated Marketing Communication ii. Event Marketing OR 1) Human Resource Group- Electives i. Training& Development in HRM ii. Conflict & Negotiation 2) Information Technology in Business Management – II 3) Foundation Course (Ethics & Governance) – IV 4) Business Research Methods 5) Business Economics- II 6) Production & Total Quality Management |

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|-----|-------|--|--|
| 30. | TYBMS | Semester - V 1) Logistics & Supply Chain Management 2) Corporate Communication & PR 3) Elective Group (Any one) I) Finance I. Investment Analysis & Portfolio Management II. Wealth Management III. Wealth Management IV. Direct Tax OR II) Marketing i. Services Marketing ii. E-Commerce & Digital Marketing iii. Sales & Distribution Management iv. Customer Relationship Management OR II) Human Resource i. Finance for HR Professionals & | Semester - VI 1) Operation Research 2) Project Work 3) Elective Group (Any One) I) Finance I. International Finance II. Project Management III. Strategic Financial Management IV. Indirect Tax OR II) Marketing i) Brand Management ii) Retail Management iii) International Marketing iv) Media Planning & Management OR III) Human Resource i) HRM in Global Perspective ii) Organizational Development |
|-----|-------|--|--|



| | | <p>Compensation Management</p> <p>ii. Strategic Human Resource Management & HR Policies</p> <p>iii. Performance Management & Career Planning</p> <p>IV. Industrial Relations</p> | <p>iii) HRM in Service Sector Management</p> <p><u>iv)</u> Workforce Diversity</p> |
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| Sr.No. | Class | Subjects | Subject |
| 31 | FYBCom (Accounting & Finance) | <p>Semester - I</p> <ol style="list-style-type: none"> 1. Financial Accounting (Elements of Financial Accounting) -I 2. Cost Accounting (Introduction and Element of Cost) - I 3. Financial Management 4. Business Communication -I 5. Foundation Course -I 6. Commerce (Business Environment) -I 7. Business Economics -I | <p>Semester - II</p> <ol style="list-style-type: none"> 1. Financial Accounting (Special Accounting Areas) -II 2. Auditing (Introduction and Planning) -I 3. Taxation (Indirect Taxes) -I 4. Business Communication -II 5. Foundation Course -II 6. Business Law (Business Regulatory Framework) - I 7. Business Mathematics |
| 32. | SYBCom (Accounting & Finance) | <p>Semester - III</p> <ol style="list-style-type: none"> 1. Financial Accounting -III 2. Cost Accounting -II 3. Taxation II (Direct Taxes Paper -I) 4. Information Technology in Accountancy - I 5. Foundation Course in Commerce (Financial Market Operation) -III 6. Business Law -II 7. Business Economics -II | <p>Semester - IV</p> <ol style="list-style-type: none"> 1. Financial Accounting -IV 2. Management Accounting 3. Taxation - III (Direct Taxes -II) 4. Information Technology in Accountancy - II 5. Foundation Course in Commerce (Introduction to Management) -IV 6. Business Law (Company Law) -III 7. Research Methodology in Accounting and Finance |
| 33 | TYBCom (Accounting & Finance) | <p>Semester - V</p> <ol style="list-style-type: none"> 1. Cost Accounting -III 2. Financial Management -II 3. Taxation - IV (Indirect Taxes -III) 4. Management - II (Management Applications) 5. Financial Accounting -V 6. Financial Accounting -VI | <p>Semester - VI</p> <ol style="list-style-type: none"> 1. Cost Accounting -IV 2. Financial Management -III 3. Taxation - V (Indirect Taxes -III) 4. Economics - (Indian Economy) 5. Financial Accounting -VII 6. Project Work |
| 34. | FYBCom (Banking & Insurance) | <p>Semester - I</p> <ol style="list-style-type: none"> 1. Environment and Management of Financial Services 2. Principles of Management 3. Financial Accounting -I 4. Business Communication -I 5. Foundation Course -I 6. Business Economics -I 7. Quantitative Methods - I | <p>Semester - II</p> <ol style="list-style-type: none"> 1. Principles and Practices of Banking and Insurance 2. Business Law 3. Financial Accounting -II 4. Business Communication -II 5. Foundation Course -II 6. Organisation Behaviour 7. Quantitative Methods - II |



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| 35 | SYBCom (Banking & Insurance) | Semester - III 1. ManagementAccounting 2. OrganizationalBehaviour 3. Mutual FundManagement 4. Information Technology in Banking &Insurance - I 5. Foundation Course - III (An Overview of Banking Sector) 6. Financial Markets 7. DirectTaxation | Semester - IV 1. CostAccounting 2. EntrepreneurshipManagement 3. Customer RelationshipManagement 4. Information Technology in Banking &Insurance - II 5. Foundation Course - IV (An Overview of Insurance Sector) 6. Corporate & SecuritiesLaw 7. Business Economics -II |
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| Sr. No. | Class | Subjects | Subject |
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| 36. | TYBCom (Banking & Insurance) | Semester - V 1. Auditing - I 2. Strategic Management 3. Financial Services Management 4. Business Ethics and Corporate Governance 5. International Banking and Finance 6. Research Methodology | Semester - VI 1. Auditing - II 2. Human Resource Management 3. Turnaround Management 4. International Business 5. Central Banking 7. Project Work in Banking & Insurance |
| 37. | FYBCom (Financial Markets) | Semester - I 1. Financial Accounting - I 2. Introduction to Financial System 3. Business Mathematics 4. Business Communication - I 5. Foundation Course - I 6. Business Environment 7. Business Economics - I | Semester - II 1. Financial Accounting - II 2. Principles of Management 3. Business Statistics 4. Business Communication - II 5. Foundation Course - II 6. Environmental Science 7. Computer Skill - I |
| 38. | SYBCom (Financial Markets) | Semester - III 1. Debt Market - I 2. Equity Market - I 3. Commodities Market 4. Business Law - I 5. Foundation Course - III (Money Market) 6. Management Accounting 7. Computer Skills - II | Semester - IV 1. Debt Market - II 2. Equity Markets II 3. Commodities Derivatives 4. Business Law - II 5. Foundation Course in Financial Markets IV Foreign Exchange Markets 6. Corporate Finance 7. Business Economics - II |
| 39 | TYBCom (Financial Markets) | Semester - V 1. Marketing in Financial Services 2. Technical Analysis 3. Corporate Accounting 4. Direct Tax - Income Tax 5. Financial Derivatives 6. Business Ethics & Corporate Governance | Semester - VI 1. Venture Capital and Private Equity 2. Mutual Fund Management 3. Organization Behaviour 4. Indirect Tax - GST 5. Risk Management 6. Project Work |



Post Graduate Programmes

M.A. / M.Sc / M.Com.

Qualifying Examination required: B.A. / B.Sc. / B.Com. of the University of Mumbai or any other recognized University. Eligibility criteria as per university norms.

I) M.A. is offered in the following subjects:

1. Hindi

II) M.Sc. is offered in the following subjects:

1. Analytical Chemistry - Papers & Research
2. Botany-Papers & Research Computer Science
3. Information Technology –Papers
4. Inorganic Chemistry - Papers & Research
5. Microbiology - Papers & Research
6. Organic Chemistry - Papers & Research
7. Physical Chemistry - Papers & Research
8. Physics - Microprocessors & Computers
9. Zoology – Papers & Research
10. Bio-analytical Sciences – Paper & Research
11. Bioinformatics –Papers
12. Nutraceuticals –Papers
13. Computer Science –Papers
14. Biotechnology – Papers
15. Information Technology

III) M.Com.

- 1) **Advanced Accountancy By Paper**
- 2) **Business Management By Paper**
- 3) **E-Commerce**

| Sr. No. | Class | Subjects | Subject |
|---------|------------------------------|--|--|
| 1 | M.A. Part - I in Hindi | Semester-I History of Hindi Literature Poetics and Literary Criticism Linguistics and Hindi Language Ancient and Medieval Poetry | Semester-II History of Hindi Literature – Modern Age Poetics and Literary Criticism Linguistics and Hindi Language Ancient and Medieval Poetry |
| 2 | M.A. Part - II Hindi | Semester-III 1) Modern Prose 2) Language and Linguistics 3) Various Discourse and Literature 4) Research Methodology | Semester-IV 1) Modern Hindi Poetry 2) Language and Linguistics 3) Vishesh Adyayen – Yeshpal Vishesh Adyayen – Jainendr 4) Project Writing Internship |



| Sr. No. | Class | Subjects | Subject |
|---------|--------------------------------------|---|--|
| 3 | M.Sc. Part-I Computer Science | Semester-I 1) Analysis of Algorithms and Researching Computing 2) Advanced Networking Concepts 3) Advanced Database Systems 4) Robotics & Artificial Intelligence. | Semester-II 1) Advanced Operating Systems 2) Design and implementation of Modern Compilers 3) <u>Elective – I</u> Track A: Cloud Computing – I (Concepts and Design of Web services) OR Track B: Cyber and Information Security – I (Network Security) 3) <u>Elective – II</u> Track C: Business Intelligence and Big Data Analytics – I (Business Intelligence) OR Track D: Machine Intelligence – I (Fundamentals of Machine Intelligence) |
| 4 | M.Sc. Part-II Computer Science | Semester-III 1) Ubiquitous Computing 2) Social Network Analysis 3) Elective (same track offered in Sem.II) to be offered Semester- I Track A: Cloud Computing – II (Cloud Computing Technologies) OR Track B: Cyber and Information Security – II (Cyber Forensics) 3) Elective – II Track C: Business Intelligence and Big Data Analytics – II (Mining Massive Data sets) OR Track D: Machine Learning – II (Advanced Machine Learning) | Semester-IV 1) Simulation and Modeling 2) Specialization Track A: Cloud Computing – III (Building Clouds and Services) OR Track B: Cyber and Information Security–III (Cryptography and Crypt Analysis) OR Track C: Business Intelligence and Big Data Analytics – III (Intelligent Data Analysis) OR Track D: Machine Learning – III (Computational Intelligence) |
| 5 | M.Sc.Par t-I Information Technology | Semester-I 1) Research in Computing 2) Data Science 3) Cloud Computing 4) Soft Computing Techniques | Semester-II 1) Big Data Analytics 2) Modern Networking 3) Micro-services Architecture 4) Image Processing |
| 6 | M.Sc.Par t-II Information Technology | Semester-III 1) EmbeddedSystems 2) Information SecurityManagement 3) Elective 1 • Virtualization • Artificial NeuralNetworks 4) Elective 2 • Digital ImageProcessing • Ethical Hacking | Semester-IV 1) ArtificialIntelligence 2) IT InfrastructureManagement 3) Elective 1 • IntelligentSystems • Real TimeEmbedded Systems • ComputerForensics 4) Elective 2 • Design ofEmbedded Control Systems |



| Sr. No. | Class | Subjects | Subject |
|---------|--|--|---|
| | | | <ul style="list-style-type: none"> • Advanced ImageProcessing • CloudManagement 5) Project |
| 7 | M.Sc.Par t-I Biotechn ology | Semester-I 1) Biochemistry 2) Immunology 3) Molecular Biology 4) Biochemical and Biophysical Techniques | Semester-II 1) Biochemistry 2) Immunology 3) Bioprocess technology 4) Intellectual Property Right and Biosafety |
| 8 | M.Sc.Par t-II Biotechn ology | Semester-III 1) PTC and ATC 2) Medical microbiology 3) Clinical Studies 4) Developmental Biology | Semester-IV 1) Nanotechnology 2) GMO and environment 3) Bioinformatics 4) Biostatistics |
| 9 | M.Sc. Part-I Bio-anal ytical Sciences | Semester-I Different Medicinal systems, Pharmacognosy and Extraction Techniques GLP, Drug Act and Quality Management / GLP, Pharmacopoeial standards, Drug Act and Quality management systems Chromatography & Spectroscopy - I Proteomics, Bioinformatics & Environmental Issues / OMICs, Electrophoresis, Bioinformatics and Environmental issues | Semester-II Indian Pharmaceutical Industry, Phytochemistry and Extraction Techniques IPR and Patenting, Stability Studies and Packaging Chromatography and Spectroscopy – II New Drug Development, Immunoassays, Pharmacokinetics, Laboratory Safety Measures |
| 10 | M.Sc. Part-II Bio-anal ytical Sciences | Semester-III 1) Basic Microbiology, Genomics, CE and Toxicology-I / Basic and Regulatory Microbiology, Basic and Regulatory Toxicology and Genomics 2) MS Applications, Metabolite Studies, Thermal Analysis and Tracer Techniques – I / MS Basics, Hyphenation, Thermal Analysis and Particle Characterization 3) Standardization of ASU Drugs, Statistics and GMP – I / Standardization of ASU Drugs, Statistics and cGMP 4) BA/BE Studies, GCP and Method Validation – I / GCP, Research methodology and Analytical and Bio-analytical method validation | Semester-IV 1) Basic Microbiology, Genomics, Capillary Electrophoresis and Toxicology – I / Bioassays, PCR & DNA fingerprinting, Automation & analysis and Capillary Electrophoresis 2) MS Applications, Metabolite Studies, Thermal Analysis and Tracer Techniques –I / MS applications, Residue analysis in food and Tracer Techniques 3) Standardization of ASU Drugs, Statistics and GMP – I / Regulatory Aspects of ASU drugs, Environmental Safety, EDM and Regulatory Issues 4) BA/BE Studies, GCP and Method Validation – I / Therapeutic Drug Monitoring, Pharmacovigilance, BA-BE and QA-QC of ASU drugs |



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| 11 | M.Sc. -Part I Bioinformatics | Semester-I I) Fundamentals of Biology II) Bioinformatics and Sequence Analysis III) Biostatistics IV) Introduction to Programming Languages and Databases | Semester-II I) Advance Biology II) Structural Biology & Bioinformatics III) Genomics and Proteomics in Bioinformatics IV) Basic and Advances Java, Introduction to Linux |
| 12 | M.Sc. -Part II Bioinformatics | Semester-III I) Separation techniques II) Cheminformatics & Drug Designing III) Immunology and Immunoinformatic IV) Introduction to Perl and Mongoddb | Semester-IV I) Mass Spectroscopy, Research Methodology and Scientific Writing II) Molecular Modeling and Simulations III) Clinical Research and Clinical Data Management IV) Python |
| 13 | M.Sc. Part-I Nutraceutical | Semester-I 1) Food Chemistry and Biochemistry (FCB – I) 2) Human Nutrition and Physiology, Clinical dietetics NPC – I 3) Nutraceuticals and Functional Foods NFF – I 4) Biostatistics, Instrumentation and Biological Evaluation BIB – I | Semester-II 1) Food Chemistry and Biochemistry (FCB – II) 2) Human Nutrition and Physiology, Clinical dietetics NPC – II 3) Nutraceuticals and Functional Foods NFF – II 4) Biostatistics, Instrumentation and Biological Evaluation BIB – II |
| 14 | M.Sc. Part-II Nutraceutical | Semester-III 1) Microbiology, Quality and process control MQP – I 2) Development and marketing of nutraceutical products: Product Development, Packaging and Safety Evaluation DMN -I 3) Molecular Biology and Biotechnology for Nutraceuticals and Functional Foods MBB – I 4) Total Quality Management, Regulatory Affairs and Intellectual Property Rights QAR – I | Semester-III 1) Microbiology, Quality and process control MQP – II 2) Development and marketing of nutraceutical products: Product Development, Packaging and Safety Evaluation DMN -II 3) Molecular Biology and Biotechnology for Nutraceuticals and Functional Foods MBB – II 4) Total Quality Management, Regulatory Affairs and Intellectual Property Rights QAR-II |
| 15 | M.Sc. Part – I CHEMISTRY | Semester-I 1) Physical Chemistry 2) Inorganic Chemistry 3) Organic Chemistry 4) Analytical Chemistry | Semester – II 1) Physical Chemistry 2) Inorganic Chemistry 3) Organic Chemistry 4) Analytical Chemistry |



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| 16 | M.Sc. Part-II Physical Chemistry | Semester-III 1) Polymer, Surface & Photochemistry 2) Nano chemistry, statistical mechanics & Nuclear chemistry 3) Atomic and Molecular Structure and Spectroscopy 4) Elective I-Advanced Instrumental Techniques | Semester-IV 1) Polymer, Green, Biophysical and Applied chemistry 2) Material Science, network and irreversible thermodynamics 3) Symmetry & Spectroscopy 4) Optional -I Intellectual property rights and Cheminformatics 5) Optional II Research Methodology |
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| Sr. No. | Class | Subjects | Subject |
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| 17 | M.Sc. Part-II Inorganic Chemistry | Semester-III 1) Solid State Chemistry 2) Bio-Inorganic and Coordination Chemistry 3) Spectra Methods in Inorganic Chemistry. 4) Elective 1: Applied Chemistry-I 5) Elective 2: applied Chemistry-II | Semester-IV 1) Properties of inorganic materials and group theory 2) Organometallic and main group chemistry 3) Instrumental methods in inorganic chemistry 4) Research Methodology Optional |
| 18 | M.Sc. Part-II Organic Chemistry | Semester-III 1) Theoretical Organic Chemistry-I 2) Synthetic Organic Chemistry-I 3) Natural Products and Spectroscopy 4) Medicinal, Biogenesis and Green Chemistry (Elective Component-I) 5) Bioorganic Chemistry (Elective Component-II) | Semester- IV 1) Theoretical Organic Chemistry-II 2) Synthetic Organic Chemistry-II 3) Natural Products and Heterocyclic Chemistry 4) Intellectual Property Rights & Chemoinformatics (Optional Component -I) 5) Research Methodology (Optional Component -II) |
| 19 | M.Sc.Par t-II Analytical Chemistry | Semester-III 1) Quality in Analytical Chemistry 2) Advance Instrumental Techniques 3) Bio-analytical Chemistry and Food Analysis 4) Environmental and Certain Industrially Important Materials 5) Pharmaceutical and Organic Analysis | Semester-IV 1) Quality in Analytical Chemistry 2) Advanced Instrumental Techniques 3) Selected Topics in Analytical Chemistry 4) Intellectual property rights & Cheminformatics 5) Research Methodology |
| 20 | M.Sc. Part-I Physics | Semester-I 1) Mathematical Methods 2) Classical Mechanics 3) Quantum Mechanics - I 4) Solid State Physics | Semester-II 1) Electronics 2) Electrodynamics 3) Quantum Mechanics- II 4) Solid State Devices |
| 21 | M.Sc. Part-II Physics | Semester-III 1) Statistical Mechanics 2) Nuclear Physics 3) 8, 16-bit Microprocessors and Microcontrollers 4) C++, Embedded Systems and RTOS | Semester-IV 1) Experimental Physics 2) Atomic and Molecular Physics 3) Microcontrollers - Interfacing & 32-bit Microprocessor 4) VHDL, Understanding USB and Communication Interface |
| 22 | M.Sc. Part-I Microbiology | Semester-I 1) Cell Biology & Virology 2) Microbial Genetics 3) Microbial Biochemistry 4) Medical Microbiology & Immunology | Semester-II 1) Cell Biology & Virology 2) Microbial Genetics 3) Microbial Biochemistry 4) Medical Microbiology & Immunology |
| 23 | M.Sc Part-II Microbiology | Semester-III 1) Tools and Techniques: Research Methodology 2) Food Microbiology 3) Advances in Biotechnology 4) Applied and Environmental Microbiology | Semester-IV 1) Tools and Techniques: Bio-molecular Analysis 2) Pharmaceutical Microbiology 3) Advances in Biotechnology 4) Applied and Environmental Monitoring & Management |



| Sr. No. | Class | Subjects | Subject |
|---------|---|--|---|
| 24 | M.Sc. Part-I BOTANY | Semester I Paper I : Plant Diversity: Cryptogams I (Algae and Fungi) Paper II: Plant Diversity – Spermatophyta I (Gymnosperms and Angiosperms) Paper III : Plant Physiology Paper IV: Cytogenetics, Molecular Biology and Biotechnology | SEMESTER II Paper I: Plant Diversity- Cryptogams II (Bryophyta and Pteridophyta) Paper II: Plant Diversity –Spermatophyta II (Anatomy, Developmental Botany and Palynology) Paper III: Plant Physiology and Environmental Botany Paper IV: Medicinal Botany and Dietetics |
| 25 | M.Sc .Part- II BOTANY | SEMESTER III Paper I: Biostatistics and Bioinformatics Paper II: Molecular Biology Paper III: Plant Biotechnology Paper IV : Molecular Biology and Cytogenetics | SEMESTER IV Paper I: Techniques and instrumentation Paper II: Molecular Biology Paper III: Plant Biotechnology Paper IV: Molecular Biology and Cytogenetics |
| 26 | M.Sc. Part-I ZOOLOGY | Semester I Paper 1: Non Chordates Paper 2: Developmental Biology 1 Paper 3: Genetics and Evolution Paper 4: Frontiers in Zoology | Semester II Paper 1: Chordates Paper 2: Developmental Biology 2 Paper 3: Biochemistry and Biotechnology Paper 4: Research Methodology |
| 27 | M.Sc. Part-II ZOOLOGY | (Oceanography & Fishery technology) Sem III Paper 1: Oceanography Paper 2: Freshwater Aquaculture Paper 3: Fish Processing Technology Paper 4: Fin fish and Shell fish biology | Sem IV Paper 1: Capture Fisheries Paper 2: Brackish water and Marine Aquaculture Paper 3: Industrial Fishery Paper 4: Instrumentation and Presentation of Scientific data (include project) |
| 28 | M.Com Part-I Business Management & Advance Accountancy | Semester-I 1) Strategic Management 2) Economics for Business Decision 3) Cost and Management Accounting 4) Business Ethics and Corporate Social Responsibility | Semester-II 1) Research Methodology for Business 2) Macro Economics concepts and Applications 3) Corporate Finance 4) E-Commerce |
| 29 | M.Com Pat-II Business Management | Semester-III 1) Human Resource Management 2) Marketing Strategies and Practices 3) Organizational Behaviour | Semester-IV Advertising and sales Management Tourism Management Management of Business Relations |
| 30 | M.Com Part-II Advanced Accountancy | Semester-III 1) Advanced Financial Accounting 2) Direct Tax 3) Advanced Cost Accounting | Semester-IV 1) Corporate Financial Accounting 2) Indirect Tax- Introduction of Goods and Service Ta 3) Financial Management |



Ph.D. Programmes:

- 1) Ph.D in Hindi
- 2) Ph.D in Marathi
- 3) Ph.D in History
- 4) Ph.D. in Chemistry
- 5) Ph.D. in Bio-analytical Sciences
- 6) Ph.D. in Physics
- 7) Ph.D in Botany
- 8) Ph.D in Zoology
- 9) Ph.D. in Business Economics
- 10) Ph.D in English

Procedure for Admission to the Ph. D. Programme

A. ADMISSION PROCESS:-

a) Candidates who have passed the PhD Entrance Test (PET) conducted by the University of Mumbai in the concerned subject and those who are exempted from the PET under clause no. 9 of No. Exam./Thesis/Univ./VCD/2414 of 2010 as mentioned below shall apply in the prescribed form along with their photograph, photocopies of certificates of date of birth, educational qualifications and proof for qualifying/exemption to PET and submit to the Principal's office.

Note: Clause 9. EXEMPTION FROM Ph.D. ENTRANCE TEST (PET):-

Candidates fulfilling one of the following criteria shall be exempted from Ph.D. entrance test (PET).

- Qualified in GATE / SET / NET / (JRF) Examination / teacher fellowship holder of the apex bodies as CSIR / UGC / ICAR / ICMR / DBT only.
- Completed an M. Phil. Degree from University of Mumbai as per the UGC guidelines from time to time.
- Completed an M. Phil. Degree from any other recognized Universities in India as per the UGC guidelines from time to time.

Also,

1. M Sc research students willing to work under the same guide and on the same topic are exempted from PET.
2. Approved teachers appointed in the University or affiliated colleges having not less than 5 years full time continuous teaching experience after the date of first approval of appointment of University of Mumbai are exempted from PET.
3. After scrutiny (for eligibility) by the Research Committee, the applications of eligible candidates will be forwarded to the Heads of department for conducting subject-wise interviews in March and September. The list of eligible candidates who are invited for interviews shall be displayed on the college website/ Departmental Notice Board.
4. The Heads of the Department shall constitute subject-wise interview committees to Interview the eligible candidates. The committee will consist of the following members, as per the UGC guidelines.
 - Principal (Chairman)
 - Two Subject Experts (from the affiliated colleges /industry / Research institutes)
 - Head of Department
 - Research Guide/s
 - One approved teacher not below the rank of Reader from the reserved category of the concerned faculty.
5. The list of the selected candidates shall be displayed on the Departmental notice board / College website and also communicated to the qualified candidates.



B. SCHEDULE OF Ph.D. INTERVIEW/ PRESENTATION:-

- a) The Ph.D. Interview/ Presentation will be conducted by various departments twice in a year i.e.in March and September.
- b) Heads of the respective department shall communicate the subject-wise vacancies of the Ph. D. seats to Research Section of the College office 30 days before the date of Interview / Presentation. All such subject-wise vacancies of Ph. D. seats will be published on the College website by the Research section and also on Departmental Notice Board by heads of respective department.
- c) Applications in the prescribed format (available with the Research Section of College and also at College website) will be invited from interested candidates within 20 days from the date of notification on the College website.
- d) The list of successful candidates after interview/ Presentation will be declared on the College website as well to the individuals within ten (10) days from the date of the Interview/ Presentation.

C. ALLOCATION OF SUPERVISOR (RESEARCH GUIDE):-

The allocation of the supervisor for a selected student shall be decided upon by the Selection committee of the interview in a formal manner depending on the number of students per faculty member, the available specialization among the faculty supervisors and the research interest of the student as indicated by the student during interview.

D. PROVISIONAL ADMISSION:-

The successful candidates can take provisional admission by completing other formalities.



4. Guru Nanak Institute for Research & Development (GNIRD)

Guru Nanak Institute of Research and Development (GNIRD) established in 2004 - 2005, is the central research wing of Guru Nanak Khalsa College, Mumbai. Till date the College management has invested more than Rupees 5 Crores to establish state-of-art instrumental facilities to cater to different requirements of interdisciplinary research, available only at a select few institutes in Mumbai.

GNIRD comprises several laboratories specializing in research in different areas of analytical and biological research. The set up consists of high end Instrumentation Laboratory, Microbiology Laboratory, Molecular laboratory, Nutraceutical Product Development Laboratory, Wet Chemistry Laboratory, Bioinformatics laboratory and a well-stocked departmental library consisting of more than 500 specialized books in addition to over 100,000 books in the College Central library.

GNIRD is recognized as a department for conducting research in the field of Chemistry as well as Bio-analytical Sciences leading to Mumbai University degree of M.Sc by Research as well as Ph.D. GNIRD has the distinction of having many high-end instruments like HPTLC, HPLC, GC, FTIR, UV-Vis spectrophotometer, PCR, DNA sequencer to facilitate research in diversified research areas like Health and Nutrition, Environmental Biotechnology, Phytochemistry, Medicinal Plants, Separation Technology, Nutraceuticals, Cosmeceuticals, Biopesticides, Biofertilizers, Fermentation Technology etc. The research activities at GNIRD have culminated in the College being recognized as SIRO (Scientific & Industrial by Govt. of India. Ministry of Science and Technology, Department of Scientific and Industrial Research. Research Organization). GNIRD has MOU's with many esteemed academic and industrial research organizations.

Ongoing Research Projects

Wound healing herbs, veterinary herbal medicines, standardization of medicinal plants and herbal formulations, microbial production of PUFA, antioxidant activity of food and cosmetics components, studies of transversal drug absorption, therapeutic potential of secondary metabolites, use of natural dyes for novel applications, DNA finger printing for medicinal plants, Probiotics for oral health, Bioplastics etc.

Services

- ✧ Analytical Services: - Analysis of samples by GC, HPLC, UV-Spectrophotometer, FTIR spectroscopy, AA spectroscopy, Flame photometry, etc.
- ✧ Molecular biology services: - Electrophoresis Agarose & Polyacrylamide, 2D-gel electrophoresis, DNA Sequencing using 8 Capillary DNA sequencer.
- ✧ Microbiology Testing: - Determination of Bioburden, evaluation of anti-microbial activity.
- ✧ Analytical Method: - Development /HPLC/ GC/ HPTLC.
- ✧ Nutraceutical product development & testing including sensory evaluation.
- ✧ Biotechnology related services: - Shake flask testing, scale up studies in fermenter complete with continuous monitoring of pH DO₂ & SCADA.
- ✧ Development of fermentation technology, Bio-process Technology transfer & consultancy.
- ✧ Fermentation facility available for by third party trained personal.

At GNIRD, we have four **UGC Innovative interdisciplinary full-time courses affiliated to Mumbai University**. These courses are M.Sc. **Bio-analytical Sciences**, **M.Sc Bioinformatics**, **M.Sc Nutraceuticals** and **Five Year Integrated Course in M.Sc Bio-analytical Sciences**. Guru Nanak Khalsa College is the only College in India to offer all the four UGC Innovative Courses under one roof.

A) M.Sc.Bio-analytical Sciences:

M.Sc. Bio-analytical Sciences is a two-year interdisciplinary course affiliated to the University of Mumbai. The placement after the successful completion of the course has been almost 100% with 90% opting for a career in Pharma industry and 10 % opting to pursue PhD either in India or abroad. Hands on training and lectures by eminent faculty from the industry and national institutes further add to the strength of the course.

Eligibility:

- ÿ B.Sc. in any one of the following subjects: Chemistry, Botany, Zoology, Microbiology, Life Sciences, Biochemistry, Biotechnology and have offered Chemistry as one of the subject till S.Y.B.Sc.(total 5 units) or equivalent.
- ÿ Minimum of 50 % marks in the entrance examination

Major course contents:

Different Medical Systems, Pharmacognosy and Extraction Techniques
 Patent, Drug Act and Quality Management
 Chromatography and Spectroscopy
 Proteomics, Bioinformatics and Pharmacokinetics
 Basic Microbiology, Genomics and Toxicology
 MS, Metabolite Study, Thermal Analysis and Tracer Techniques
 Standardization of ASU Drugs, Statistics and GMP
 BA/BE Studies, GCP and Method Validation

Salient Features of the Course:

- ÿ Amalgamation of traditional & modern medicine, analytical techniques (including hyphenated techniques), proteomics, IPR, Quality Management Systems, packaging, etc.
- ÿ Hands on training on instruments like HPTLC, HPLC, GC, FTIR, UV-Vis Spectrophotometer
- ÿ Exposure to National & International regulatory affairs with reference to drugs
- ÿ Excellent Job Opportunities
- ÿ Visiting faculty from eminent pharmaceutical industries and reputed research institutes

B) M.Sc. Bioinformatics

M.Sc. Bioinformatics Course is designed to bridge gap and meet the demand of pharmaceutical industry and research area through interdisciplinary training. This two year full time course affiliated to the University of Mumbai provides students with a comprehensive education in understanding the application of computer technology for the management of biological information. The students are trained to various biological instrumentation techniques such as recombinant DNA technology - PCR, DNA Sequencer, software/tools such as Docking, Stimulation, Drug designing and discovery, Sequence analysis, Programming and Database Management, Algorithm Development and Data analysis and Artificial Intelligence. In the curriculum students visit various industry and are encouraged to take research projects. These research projects are further published in reputed journals.

Today Bioinformatics is an emerging field with broad range of applications to molecular biology, pharmacology, biotechnology, forensic science, drug designing, and various other disciplines. This course

Eligibility:

- ÿ B.Sc. 55% and above in any one of the following subjects: Chemistry, Botany, Zoology, Microbiology, Life Sciences, Biochemistry, Biotechnology, Physics, Environmental Science, Mathematics and statistics, Pharmacy, I.T and Computer Science.
- ÿ Minimum of 50 % marks in the entrance examination conducted by the department.

Major Course Contents:

Fundamentals of Biology



Sequence analysis & taxonomy
 Biostatistics
 Immunoinformatics
 Programming Language & Databases
 Molecular Modelling & Drug Designing
 Proteomics and Genomics
 Application of Bioinformatics
 Concepts of computing

Salient Features:

- ✓ Well equipped Bioinformatics Laboratory with latest Softwares
- ✓ Training in PCR, DNA sequencing, Microarray Technology
- ✓ Industrial Training and Research projects
- ✓ Certificate Course in Linux and SPSS
- ✓ Virtual lab in collaboration with IIT (Bombay)
- ✓ Assistance in Placements

C. M.Sc. Nutraceuticals

Msc Nutraceuticals is a two-year full-time course affiliated to University of Mumbai which has been introduced to provide trained manpower to the food and nutraceutical industry considering huge market opportunity. Nutraceutical is a nutritional product that provides medicinal benefits in addition to its regular nutritional value (nutrition + pharmaceutical). Nutraceuticals may refer to foods, dietary supplements, medicinal foods as well as functional foods that may contribute to prevention and/or treatment of disease.

Eligibility: B.Sc in Zoology, Botany, Microbiology, Life Sciences, Chemistry, Biochemistry, Biotechnology, or degree in Food & Nutrition, Pharmacy, Medical Science

Major Course Contents:

Food chemistry, Biochemistry and Biostatistics
 Human Nutrition, Physiology and Clinical Dietetics
 Nutraceuticals and Functional Foods
 Instrumentation & Biological Evaluation
 Microbiology, Quality & Process Control
 Development & Marketing of Nutraceutical Products
 Molecular Biology and Biotechnology for Nutraceutical Products
 Total Quality Control & Assurance, Regulatory Affairs

Salient Features of the Course:

- ✓ Well equipped lab with sophisticated instruments like HPLC, HPTLC, GC, FTIR, AAS, UV-Vis Spectrophotometer
- ✓ Training in formulation, processing, manufacturing & packaging of nutraceutical products
- ✓ Industrial visit and Industrial training (for 3 months)
- ✓ Interaction with dynamic visiting faculty from industry and research institute
- ✓ Research projects undertaken by students
- ✓ Nutraceutical Product Development

D. Five Year Integrated Course in M.Sc Bio-analytical Sciences

Five years Integrated course (FYIC) in Bio-analytical Sciences is a program at par with engineering and pharmacy careers! FYIC is an innovative course designed by industry experts to provide solutions for the continuously evolving pharmaceutical and biotech industries. This full time, 5 years course, is integrated (i.e. UG+PG) to provide the right cohesiveness for deeper understanding of sciences, thereby helping students to clear National Competitive exams of all kinds. We boast of our 100% placement records since inception of the department and invite young minds to create better worlds.



The design of the course affirms the conviction that the students passing this course will help to meet the demand for reliable and well-informed Bio-analysts in the areas of Analytical Sciences, Biotechnology, Clinical Research, Immunology, Molecular Biology and Pharmaceutical industry.

Eligibility: Min 50% marks in H.S.C Examination. PCMB combination is required. Bridge Course in Mathematics will be conducted.

Major Course Contents:

Biological Sciences, Chemical Sciences, Computational Sciences
Foundation Course/ Environmental Sciences/ Technical Communication Skills
Entrepreneurship Skills
Research Project/Case Study
Three electives in the fifth Year:
Bio-analysis
Bioinformatics
Nutraceuticals

Salient Features of the course:

- Y Well equipped lab for chemical science, Biological Science and Computational Science
- Y State of art facility with modern sophisticated equipments like HPLC, HPTLC, PCR, DNA Sequencer etc. with hands on training
- Y Industrial Visit and Industrial training (for 3 months)
- Y Foundation in basic sciences for first three years with specialization in Bio-analysis, Bioinformatics and Nutraceutical Sciences
- Y Inter-disciplinary approach
- Y Departmental library and E-books
- Y Excellent visiting faculty from industry and academia

5. National Facility for Biopharmaceuticals (NFB)

For further details please visit website www.nfbindia.in NFB is a 5 crore project funded by Departments of Science and Technology, Ministry of Health, Government of India and G. N. Khalsa College. This is one of its kind in the nation and its mission is to train students in the field of Biotechnology and drug research and to make them industry ready. The policy of NFB is to provide hands on training and make the candidate independent and confident in their field of interest.

NFB has well equipped and state of art laboratory facilities with a pre-training laboratory, Molecular biology laboratory, protein purification laboratory, bacterial fermenter and an animal tissue culture laboratory. NFB has many technical consultants with global exposure and an excellent team of well-trained instructors to give training at personal level.

NFB has entered into an MOU with STEM MED INDIA for research on Dental Stem Cells.

NFB offers various training programs with duration of one day to three years. NFB offers part-time courses for under graduate and post-graduate students so that they can build their career during their regular studies.

6. Diploma Course :

PG Diploma in RFID & Integration with Automated Systems (UGC Sponsored)

7. Certificate Courses (1 week to 1 year duration for students of UG & PG)

Statistical Analysis with hands-on experience in SPSS
Spectroscopy and Chromatography



PatentClaimDrafting
HandsonTraininginBioinformatics
BasistechniquesinBioinformatics
SequenceAnalysis
SensoryEvaluationofFood
Saral Hindi Prashikshan Yojana – Collaboration HindustaniPracharSabha
StockGyan
PersonalityDevelopment
Marathi Bhasha Shudh Lekhan Aani Sampadan Kaushalya
Instagroom,Careergroom,Corp groom
Foreignlanguages:BasicandAdvanced
ÿ Spanish
ÿ German
ÿ Mandarin
ÿ French
ÿ Japanese
TMC : Fashion Designing, Web Designing &BasicsofComputers
GeneCloning&ExpressioninProkaryotes
GeneCloning&ExpressioninEukaryotes
Fermentation &Upstream Bioprocess of Prokaryotes
Fermentation &Upstream Bioprocess of Eukaryotes
CapillaryElectrophoresis
LC-MS/MS
Knowledge Management & Intellectual Property Rights
ProteinCharacterization
Bioreactor based Cell Culture & Mammalian Cell Culture

Bridge courses

M.A.Hindi
Mathematics :
1) FYBSc Biotech
2) First year Five year Integrated Bio analytical Science.
BScBiotechnology.
Finance

Additional Certificate Courses sanctioned under RUSA

- Building Leadership through Community Based Action Research
- Launch Pad: Induction Program on Life Skills and Communication Skills
- Cyber Security
- Nanotechnology in Waste Water Management
- Food Testing and Product Formulation
- Content Writing
- Chemical fingerprinting
- Applied International Economics
- Orthography and proof reading
- Next Generation Sequencing for Bioinformatics and Proteomics
- Advanced Microbiological Analysis of Food and Pharmaceuticals (PG Diploma)



- Computational Training in Material Sciences
- Dynamics of Intellectual Property Rights
- Clean and Green Initiatives
- Advanced Experimental Methods in Organic Synthesis
- Cyber Marketing and e – aggrandizing
- Stage Craft Skills

Examination related information:

The college follows the Choice Based Credit System (CBCS) for UG and PG exams

1. CBCS is semester based wherein the students have to separately clear each semester
2. Eligibility for clearing each semester is 40% marks in each paper scored collectively in the internals as well as the Semester End Examination.
3. 25% marks are for continuous internal evaluation and 75% marks are for Semester End Examination.
4. Internal evaluation is based on class tests, assignments, projects, field visits, class participation and class conduct of the students.
5. For all subjects with practical, the internal evaluation will be based on assignments, projects, practical, class tests, class participation and class conduct.
6. Eligibility for admission to SY and TY will be based as per the university norms in force.
7. Students are required to have 75% attendance as per University norms.

Eligibility for the Grant of a BA/BSc/BCom Degree

Apart from the Academic Credits a UG student has to earn 4 Additional Academic Credits before the completion of the UG program from the following categories to be eligible for a degree certificate:

- Co-curricular credits (CCC) – 2
- Community Participation Credits (CPC) – 2
- Extra-curricular credits (ECC) – 2
- Two Co-curricular credits are mandatory which have to be earned through two skill development courses of minimum 30 hours each
- The other two credits could be earned either through community participation work or through extra-curricular activities.

The additional academic credits however will not be taken into account while calculating the Cumulative Grade Point Average (CGPA) while assigning the final grade to a student.

Rules of Refund of Fees & Fees Structure

Refund of Tuition, development and all other fees after cancellation of admission;

The candidates who have taken admission for graduate courses in Govt. College, in Govt. aided and unaided courses conducted by affiliated colleges, and recognized institutes may request for refund of fees after applying in writing for cancellation of their admission to the course. The refund of fees as applicable shall be made on or before 30th day after the date of cancellation and thereafter. A percentage of the fee for the course shall be refunded to the candidate after deducting charges as following:



| Period and Percentage of Deduction Charges | | | | | | |
|--|--|--|---|---|--|-----------------------------------|
| i | ii | iii | iv | v | vi | vii |
| | Prior to commencement of academic term and instruction of the Course | Upto 20 days after the commencement of academic term of the course | From 21 st day upto 50 th day after the commencement of academic term of the course | From 51 st day upto 80 th day after the commencement of academic term of the course | From September 1 st to September 30 th | After September 30 th |
| Deduction Charges | Rs. 500/- Lump sum | 20% of the total amount of fees. | 30% of the total amount of fees. | 50% of the total amount of fees. | 60% of the total amount of fees. | 100% of the total amount of fees. |

For all Self Finance Courses - In case the student drops out midway, fees to be paid in full for the entire course.

Co-curricular Activities

INSPIRE

The College has the unique distinction of organizing INSPIRE science internship camp, sponsored by the Department of Science and Technology, Govt. of India, for the third consecutive year. The Camp is meant for students pursuing XI Science and provides a unique opportunity to interact with eminent scientists of national and international repute.

MANTHAN -

Annual Inter Collegiate Edufest (Education by doing) by Department of Commerce.

Department Associations

The Department associations arrange talks, seminars and competitions to spur an interest in their respective subjects and widen their perspective.

Progressive Science Centre

Workshops for school students are regularly conducted so as to generate interest in pure sciences amongst school students.

Mentorship Program

Special care is taken of the students preparing for the Third Year B.A./B.Com./B.Sc. Degree Examinations. Apart from the terminal and preliminary examination, a rigorous schedule of test series is devised to train the students to be consistent in their work all round the year. Mentors (teachers' assigned to specific groups of students) regularly monitor the students' attendance and performance and give personal attention to their problems. Parent-teacher meets are arranged so as to encourage the parents to participate in their ward's progress and monitor their attendance and academic record. Scholar's card is given to the bright students and remedial coaching is extended to the academically weaker students. Performance Improvement Programme (PIP) for final year students and Remedial PIP for academically weak students are conducted at the end of the Semester.

Extra Curricular Activities

Sports

Khalsa prides itself as one of the best Colleges of Mumbai University in the sports arena. The Khalsa management has been providing unstinted support to its budding sportsmen so as to enable them to realize their full sports potential. The sports Roll of Honour includes sportsmen who have made a mark in Asian Games and Olympics. They have been honoured with Padmashree, Arjuna Award, Shiv Chatrapati Award, etc. For the last several years, the College has been the reigning champion team in hockey. The College has also provided a substantial number of players to the Mumbai University and National Teams. The College



stands second in Sports in the University of Mumbai.

National Cadet Corps (NCC)

The establishment of NCC(Boys) Unit in Guru Nanak Khalsa College coincides with the birth of NCC in India. Enrolment to NCC is voluntary for boys and girls at Junior College level.

Besides regular training, the cadets participate in various activities at All India level such as Republic Day, Independence Day, Basic Leadership, Thal Sainik Camps (TSC), Trekking, Mountaineering in which cadets display their *Espirit de-Corps* and engage in a healthy competition in a disciplined manner.

The NCC unit has brought laurels to the College by working towards environment enrichment and conservative social service programmes and adoption of slums.

The college authorities have provided sufficient infrastructure for conducting NCC activities such as NCC Office (Boys and Girls), space for storing equipment and uniforms. The College authorities have also funded the NCC unit to purchase the band and the cadets are trained to perform during various programmes. NCC Day is celebrated every year during the annual cultural festival Nazrana.

National Service Scheme (NSS)

NSS Unit has been participating in this Scheme under the NSS Cell in University of Mumbai.

The enrolment is open to all students irrespective of their caste, creed and religion. Around 150 students enrol as volunteers every academic year. They have to put in minimum 120 hours of work by taking up different projects during the academic year.

The NSS unit has won laurels by involving itself in projects, working towards environment enrichment and conservative social service programmes and adoption of slums.

Extension Work Unit

The Extension Work Unit at the college was initiated in the year 2006 under the aegis of the Department of Life Long Learning and Extension (DLLE), University of Mumbai. The department offers flexible continuing education opportunities for the people. The aim is 'To Reach The Unreached'. Various projects enhancing the knowledge and personality of the students in the field of Information technology, status of women, career opportunities and entrepreneurship development are undertaken by the students. Online certificate course in Office Administration, Computer Hardware, Software and Networking, Business Administration, Computerized Accounting, Basic Electronics & Telecommunications, Fibre Optics, Basics of Share Market, Tally and e-Taxation are also offered besides, courses such as MS Word, Excel and Power Point. Annapurna Yojna (APY) is a unique activity which helps the students to understand the techniques of entrepreneurship.

Annual Extension Work festival titled "UDAAN – the flight of extension" is organized by the University wherein the students of Extension Work from various colleges participate in street plays and exhibit posters based on their projects.

Anhad Naad School of Music

Hindustani Classical: Vocal & Instrumental Gurbani Kirtan based on Ragas

Guru Nanak Centre of Competitive Studies: UPSC/MPSC Examinations (Contact No. 8169129620)

Language Lab Social Outreach

- Rotract club of Khalsa - Initiative of Department of Commerce.
- Khel Ki *Patshaala*: Sports Training for street / under privileged Children.
- Education for street children in association with Shelter Don Bosco.

Other Associations

Punjabi Cultural Association, Drama Association, Film Society, Hiker's Club.



Festivals

The Annual intra-collegiate festival 'Nazrana' is held in December. Activities ranging from *kavi sammelan*, literary events, ad campaign, fine arts to personality contest, traditional and talent parade to fashion show are organized.

Department Fests: Manthan (Commerce), Galazio (Biotech), Paradigm (GNIRD), Nutrazest (Nutraceuticals), Spark IT (CS & IT).

Parent Teacher Association

Through regular interface between parents, teachers and students, the Association works towards the form the college to avail of the help of past alumni who are well placed in life. Third year students prior to leaving the college may secure life membership to the Association.

The Association provides a forum for suggestions from parents for further development of the Institution.

Alumni Association

The Alumni Association enables ex-students of the College to strengthen their ties with their alma mater. Besides, it enables the College and fresh graduates from the college to avail of the help of past alumni who are well placed in life. Third year students prior to leaving the college may secure life membership to the Association.

Doctor's Panel

The College has a doctor's panel for consultation or call in the event of a medical emergency. First aid kits are kept in the College office and in various laboratories.

Infrastructure

The College has a sprawling structure; the main building and the Annexe building, linked by the Library section and segregated by lawns and open spaces. The College has one of the largest playgrounds amongst the Colleges of Mumbai; conforming to the international standards; ad measuring 102 m X 144 m, with a running track spanning 265 metres.

The classrooms are well-equipped and well-ventilated, flanked by large corridors. Toilets on each floor and hygienic drinking water facilities are available for the students.

Library

The College library is one of the best in the University of Mumbai. The library has a spacious reading hall with separate cubicles for the staff, female and blind students. It can accommodate more than 400 readers at a time. The reading hall is kept open from 8.30 a.m. to 6.30 p.m. and the closing hour is extended to 8.00 p.m. during examinations.

The library has a collection of over 90,000 books in the senior college section and 5000 books in the Junior College section. Library is unique in holding the finest collection of books on Sikh history and religion. It also has a rich collection of technical, scientific, literary and popular journals and periodicals, newspapers, and also reference books like dictionaries, encyclopedias. Through its Book Bank, the library provides books to the needy students. It offers an extra library ticket, the Scholar's Card to meritorious students.

The library helps the College in holding the annual book exhibition and sale. It assists various departments of the college to arrange departmental book displays in the library for the benefit of the students. Tape recorders, CDs, floppies, audio cassettes are provided by the library. Braille typewriter facility is provided to blind students. The library is fully computerized.

Students have access to **e-resources** (e-books and e-journals) through N-LIST program of the UGC Infonet. The library has an information center which provides internet facility and a language lab for English & four foreign languages namely Spanish, Japanese, Chinese and German. The College library has also taken institutional membership of British Council and American Library.



Laboratories

The College has spacious laboratories for practicals in Physics, Chemistry, Zoology, Botany, Microbiology, Electronics and Biotechnology. There are separate laboratories for post-graduate students.

All laboratories are well-equipped and well-maintained. The M.Sc. Physics Laboratory (for Electronics) and Chemistry departments have highly sophisticated instruments, some of which have been especially imported.

Computer Laboratories

Departments of Mathematics and Statistics, Computer Science, Information Technology, Bachelor of Management Studies (BMS) and Bachelor of Mass Media (BMM) have their separate computer laboratories.

Gymkhana

The College Gymkhana measures 14m X 13m. It is adequately furnished for regular weight training activity, table tennis, carom and chess. (There are changing rooms for the teams.)

Playground

Full international size hockey field, football practice arena, Volleyball court, Basketball court, Handball court, 265 Meters running track, Long & High jump pit, shotput and Discus throw section, Cricket net practice area. For a number of years, the University of Mumbai's annual inter-collegiate hockey tournament for both men and women has been hosted by Khalsa College. Also, the Mumbai University hockey teams (men and women) have their coaching camps on the College ground, before they proceed to participate in the Inter-University championships.

Seminar Hall

The College has state of the art seminar hall with a seating capacity of 93. It is equipped with all infrastructure required for a seminar hall.

College Hall

This centre is an Amphitheatre for budding talent. Having a proper stage with a green room facility, the College hall has a 500 plus seating capacity. Apart from being the venue for formal functions, the hall is also used for events like drama competitions, literary events, kavisammelan, mehfil and other artistic pursuits.

Quadrangle

The College building and its classrooms overlook a large open space, the Quadrangle, which has a long raised platform. The huge quadrangle is used for holding open air functions like the Annual Prize Distribution Function and the annual intra-collegiate events like the Nazrana.

Canteen

A well-spread out area, the college canteen provides a varied, wholesome, hygienic palatable fare at subsidized rates.

Ladies Common Room (LCR)

The LCR is a spacious area with well-ventilated rooms, furnished with ample seating arrangement and other amenities for indoor games like chess and carom. A separate canteen facility is available. A lady attendant is also available for assistance.



Caution Notice to the Candidates Appearing For Examinations as per the Rules of the University:

Students are advised to refrain from indulging in any unfair means during the examinations. Any candidate who indulges in the use of the following unfair means will be liable for severe punishment.

1. Possession of mobile phones, i-Pods, any electronic unit, copying material, unauthorized answer books or supplements.
2. Exchange of material.
3. Smuggling in or out of answer books or supplements.
4. Any mark of writing, sketch etc.
5. Mutual communication of any kind.
6. Forging the Supervisor's signature etc.

Students indulging in any of the above malpractices are liable for the following punishment as per the University rules:

1. Debarring from examination for a period of up to three years.
2. Cancellation of the student's candidature at the entire examination.
3. Cash penalty.

Registration of criminal offence with the Police (Non-Bailable). Students are advised to take note of the serious implications of malpractices and to refrain from any kind of malpractice to avoid getting into serious trouble.

Scholarship / Freeship / Awards

Faculty sponsored scholarships

1. Ashwinder Kaur Memorial Scholarship - highest marks XII Science
2. Mr. Jawadekar Scholarship – Highest Marks in Chemistry in XII Science.
3. Prof. Waryam Singh Memorial Prize - highest in Mathematics in XII Science.

Sr. College

1. Scholarship instituted by the college- details available with the Registrar of the College.
2. Cash Awards by the Management to Meritorious University Rankers:
3. Youth Leaders as Change Makers Fellowship - a collaborative initiative by Gunvati J Kapoor Medical Charitable trust, PUKAR and Khalsa College.
Students are expected to participate in projects which are socially relevant and are paid for the work done for three weeks during the vacation.
4. Cash Awards by the Management to Meritorious University Rankers:
5. Youth Leaders as Change Makers Fellowship - a collaborative initiative by Gunvati J Kapoor Medical Charitable Trust, PUKAR and Khalsa College. Students are expected to participate in projects which are socially relevant and are paid for the work done for three weeks during the vacation.
6. Prof. Kuldip Singh Memorial Scholarships
 - Budding Math Talent Award – Meritorious student of FYBSc Mathematics
 - Emerging Math Talent Award - Meritorious student of SYBSc Mathematics
 - Proven Math Talent Award - Meritorious student of TYBSc Mathematics
 - Young Math Prodigy – Best Math Student Male and Female
7. Prof. Waryam Singh Memorial Special Prize - Highest marks in Mathematics TYBSc University examination and to the Best NCC cadet.
8. Freedom Fighter Late Raghbir Singh Manhas & Smt. Bhajan Kaur Manhas Scholarship to first rank holders of Self Finance Courses.



9. Tejinder kaur Kalirai Benevolent fund for first rank holder of TYBSc Microbiology and Bio Technology.
10. Dr.(Ms.) Sharda Rai Scholarship – Highest marks in Economics at the TYBA University Examination
11. (Ms.)S.A.Irani Scholarship(Economics)-Highest marks in Economics at the TYBA University Examination
12. Shaila Mehta Scholarship (Economics) - Highest marks in Economics at the TYBA University Examination.
13. Prof. Angelo Moses Award - Highest marks in Philosophy at the TYBA University Examination
14. Ms. Leena Kelkar Award - highest Marks in Philosophy at the SYBA Level.
15. Prof.Surendra Gavaskar Scholarship-(NSS)-for best male and female campers.
16. Jayshree Mishra & P. N. Mishra Award – Highest marks in FYBA/SYBA/TYBA Hindi
17. Dr.S.D.Mishra Award(Hindi)
18. Prof. A. M. Thomas benevolent fund instituted by Dr. R. G. Krishnan in memory of his teacher to be awarded to a student securing highest marks in XII SC and pursuing any field of medicine.
19. Bibi Sohandevi Scholarship on merit cum means basis to girls students.

Scholarships/Freeships Applicable to the Aided Section

Note: The conditions may change according to the directives issued by the Government from to time.

| Sr. | Name of Scholarship/ Freeship | Documents Required & other details. | Last date application |
|-----|--|---|------------------------------|
| 1. | Scholarship (SC / ST / OBC / SBC / NT /VJNT) | <p>Scholarship is applicable only upto 2nd boy child. (OBC/SBC/NT/VJNT) Xerox copy of attested documents required along with the form.</p> <ol style="list-style-type: none"> 1. Mark sheet of previous year.(Passed) 2. SSC marksheet 3. Fee Receipt (Original & Xerox) 4. Ration Card. 5. Caste Certificate (Only Maharashtra State) 6. ST Caste validity 7. Income Certificate of father's duly attested by Tahasildar only for the financial year 201-18. (1st April 2017 to 31st March 2018) Original certificate required. 8. Domicile Certificate 9. I-card 10. In case of death of parent death certificate is required. 11. Aadhar Card 12. Gap Certificate if applicable. 13. First page of Banks passbook with name, Address & Account no. (Add: Central Bank of India, Cheeda Mension Road, Opp. Wadala(E)) 14. One Passport size Photo | On or before 30th October |



| | | | |
|----|--|---|--------------------------------|
| 2. | Freeship (SC / ST / OBC / SBC / NT / VJNT) | <p>Freeship is applicable only upto 2nd boy child. (Those who are not eligible for Scholarship) (OBC/SBC/NT/VJNT) Xerox copy of attested documents required alongwith the form.</p> <ol style="list-style-type: none"> 1. Marksheet of previous year.(passed) 2. SSC marksheet 3. Fee Receipt (Original &Xerox) 4. Ration Card. 5. Caste Certificate (Only MaharashtraState) 6. ST Caste validity 7. Income Certificate of father's duly attested by Tahasildar only for the financial year 2017-18. (1st April 2017 to 31st March 2018) Original certificaterequired. 8. Domicile Certificate 9. Non Creamy Layer Certificate for OBC/SBC/NT/VJNT (Income above Rs.1 Lac to Rs. 6 Laonly) 10. I-card 11. In case of death of parent death certificate isrequired. 12. Aadhar Card 13. Gap Certificate ifapplicable. 14. First page of Banks passbook with name, Address & Account no. (Add: Central Bank of India, Cheda Mension Road, Opp. Wadala(E) 15. One Passport size Photo | On or before 30th October |
| 3. | Economically Backward Class | <p>Photocopy of attested documents alongwith the form:</p> <ol style="list-style-type: none"> 1. Marklist of the previousyear.(passed) 2. Fee Receipt (Original &Xerox) 3. Ration Card, AadharCard 4. Income Certificate of father's duly attested by Tahasildar,Income limit up to Rs. 6,00,000/- per annum only for the academic/financial year2017-18 5. Domicile Certificate 6. I-card <p>Student are required to visit website www.scholarships.gov.in to fill the application form</p> | On or before 30th September |



X. SPORTS ROLL OF HONOUR - OLYMPIANS

| YEAR | NAME | SPORT |
|-----------|-------------------|-----------|
| 1956 - 60 | S. S. Narayan | Football |
| 1956 | Mary Leela Rao | Athletics |
| 1968 | Balbir Singh | Hockey |
| 1980 | Selma D'Silva | Hockey |
| 1980 | Loraine Fernandes | Hockey |
| 1984 | Marcelus Gomes | Hockey |
| 1984 | Joaquim Carvalho | Hockey |
| 1988 | Mark Patterson | Hockey |
| 2000 | Jude Menezes | Hockey |
| 2004 | Adrian D'Souza | Hockey |

ARJUNA AWARDS

| YEAR | NAME | SPORT |
|------|-------------------|--------|
| 1976 | Loraine Fernandes | Hockey |
| 1986 | Joaquim Carvalho | Hockey |

PADMA SHRI AWARDEES

| YEAR | NAME | SPORT |
|------|---------------|--------|
| 1991 | Selma D'Silva | Hockey |

Participation at International Competitions

| | | |
|----|----------------------|--|
| 1. | Khadang Bam Kathajit | Represented India in the qualifiers to Olympic Games for Hockey - 2011 |
| 2. | Gaurav Jathar | Represented India for the u/22 cricket test series held at South Africa & Jr. India in the Cricket series played in Australia. |
| 3. | Bhoite Shravan | Represented India at the Youth Common Wealth Games for Athletics |
| 4. | Veena Rane | Represented India at the 6th World Junior Cadet & Karate Championships |
| 5. | Sanil Shetty | Represented India in various Sr. & Jr. Table Tennis championshipsheld in 2008-09 |
| 6. | Poonam Raut | Bronze medal winning Indian team member of the Womens Cricket World Cup held in Australia in March 2009. |
| 7. | Siddesh Gagah | Bronze medalist at the Jr. Asian Games in Taekwando held in Vietnam. |
| 8. | Siddharth Pandey | Represented Jr. Indian Hockey team in 4 Nation Hockey tournament |
| 9. | Senhora D'Souza | Represented India at the Junior & Cadet Open Table Tennis Circuit |



XI. Facilities to the Trainees(Sports)

- ❖ Free International Standard Infrastructure for Training
 - ❖ Free International Standard Coaching by NIS Certified coaches of International and National reputed fame
 - ❖ International Standard Kit (Sports Gear) for trainees who are regular and consistent
 - ❖ Free consultation with Nutritionist & Physiotherapist
 - ❖ Free Counseling to trainees concerning academic and sports career
 - ❖ Scholarships to students performing in international, national and state level competitions.
 - ❖ Building a school team for participation in DSO & MSSA Sports Competitions
-

Tobacco free education institutions campaign, Maharashtra Pledge

I know the ill effects of gutkha, tobacco and cigarette This
deadly disease has engulfed the body, mind and the society.

My friends and I take the pledge that we will stay away from this addiction.

I will not consume tobacco for the well being of my country, society and my family.

I am an Indian citizen

I will inform

I am determined to follow this oath!

Tambaku Matlab Khallas



Sports Teams of GuruNanak KhalsaCollege of Arts, Science and Commerce (Autonomous)

Senior College

1. Athletics (Boys & Girls)
2. Badminton (Boys)
3. Basketball (Boys)
4. Best Physique(Boys)
5. Ball Badminton (Boys &Girls)
6. Boxing (Boys &Girls)
7. Carroms (Boys &Girls)
8. Chess (Boys &Girls)
9. Cricket (Boys &Girls)
10. Football (Boys &Girls)
11. Gymnastics (Boys & Girls)
12. Handball (Boys &Girls)
13. Hockey (Boys &Girls)
14. Kabaddi (Boys &Girls)
15. Lawn Tennis(Boys)
16. Power Lifting(Boys)
17. Shooting (Boys &Girls)
18. Table Tennis (Boys &Girls)
19. Taekwondo (Boys &Girls)
20. Volleyball (Boys &Girls)
21. Tug of War (Boys &Girls)
22. Weight Lifting(Boys)
23. Cycling (Boys)
24. Judo (Boys &Girls)

25. Cross Country (Boys &Girls)



Junior College

1. Athletics (Boys)
2. Badminton (Boys)
3. Basketball (Boys & Girls)
4. Boxing (Boys)
5. Ball Badminton (Boys)
6. Carroms (Boys & Girls)
7. Chess (Boys)
8. Cricket (Boys & Girls)
9. Cycling (Boys)
10. Football (Boys)
11. Kick Boxing (Boys & Girls)
12. Handball (Boys)
13. Hockey (Boys & Girls)
14. Kabaddi (Girls)
15. Lawn Tennis (Boys)
16. Shooting (Boys & Girls)
17. Swimming (Boys & Girls)
18. Table Tennis (Boys)
19. Taekwondo (Boys & Girls)
20. Volleyball (Boys)
21. Judo (Boys)
22. Wrestling (Girls)
23. Baseball (Boys)
24. Softball (Boys)
25. Sikai Martial Arts (Boys)



Colleges run by Shiromani Gurdwara Parbandhak Committee, Amritsar

1. Guru Nanak Khalsa College, King's Circle, Matunga, Mumbai, Maharashtra
2. Guru Nanak Institute of Management Studies, King's Circle, Matunga, Mumbai, Maharashtra
3. Sri Guru Teg Bahadur Khalsa College, Sri Anandpur Sahib, (Ropar), Punjab
4. Mata Gujri College, Fatehgarh Sahib, Punjab
5. General Shivdev Singh Diwan Gurbachan Singh Khalsa College, Patiala, Punjab
6. Guru Nanak College, Budlada, (Mansa), Punjab
7. Mata Sahib Kaur Girls College, Talwandi Saboo, Bathinda, Punjab
8. Sant Baba Dalip Singh Memorial Khalsa College, Dumelli, (Kapurthala), Punjab
9. Guru Nanak Khalsa College, Darolli Kallan, (Jalandhar), Punjab
10. Trai-Shatabdi Guru Gobind Singh Khalsa College, Amritsar, Punjab
11. Guru Nanak College, Moga, Punjab
12. Guru Nanak College For Girls, Mukatsar, Punjab
13. Babbar Akali Memorial Khalsa College, Garshankar, (Hoshiarpur), Punjab
14. Khalsa College, Gardhiwala, (Hoshiarpur), Punjab
15. Mata Ganga Khalsa College For Girls, Kottan, (Ludhiana), Punjab
16. Guru Gobind Singh Khalsa College, (For Women), Jhaar Sahib, (Ludhiana), Punjab
17. Mata Damodri Kanya Mahavidyala, Darolli Bhai, (Moga), Punjab
18. Mata Sundri Tri-Shatabdi Khalsa College for Women, Karnal, Haryana
19. Guru Nanak College, Batala, (Gurdaspur), Punjab
20. Mata Sahib Kaur Girls College, Talwandi Sabho, (Ferozpur), Punjab
21. Sri Guru Tegh Bahadur Khalsa College, Vill, Aakar, Patiala, Punjab
22. Guru Nanak Girls Intermediate College, Kankarkhera, Meerut Cantt., U.P.
23. Sikh Intermediate College, Narangpur, Joya, J. P. Nagar, U.P.
24. Sri Guru Ramdas Institute of Medical Sciences and Research, Amritsar, Punjab
25. Sri Guru Ramdas Institute of Dental Sciences and Research, Amritsar, Punjab
26. Guru Nanak Engineering College, Ludhiana, Punjab
27. Sri Guru Ramdas School of Nursing, Amritsar, Punjab



GURU NANAK KHALSA COLLEGE OF ARTS, SCIENCE AND COMMERCE(Autonomous)

MATUNGA, MUMBAI - 400 019

**PARENT'S/GUARDIAN'S UNDERTAKING
[TO BE ATTACHED TO THE ADMISSION
FORM]**

I, _____ undertaketoensurethatmy
son /daughter/ward, Mr./Ms _____, studying in _____ class will
attendthelectures/practicals/tutorialsregularlyandthatitshallnotbethereponsibilityofthecollegeto
inform me if my son/daughter/ward defaults in his/her attendance, as prescribed by the
University/College.

I have read the prospectus and I affirm that it will be my responsibility to ensure that the internal
assessmenttaskwillbeaccomplishedbytheprescribeddateandthe _____ Collegemayproceedtotakesteps
againstmywardifhe/shedefaultsinthesame.

Ihavefullyunderstoodtheeligibilitycriteriaforadmissionandmywardfulfillstherequisitequalification
foradmission.

IherebyassurethatIshallmonitormyson's/daughter's/ward'sacademicperformancebyregularvisits tothe
College.

Iamawarethatmyson's/daughter's/ward'sadmissiontothe _____ Collegewillbecancelledand/orhis/her
termswillnotbegrantedandhe/shewillnotbeallowedtoappearattheAnnualExaminationifhe/she
defaultsinattendanceoractsinamannerprejudicialtothedisciplineandreputationoftheCollege.

Ihavereadandunderstoodtherulesofconductanddress _____ code.Iwillensurethatmyson/daughter/
wardabidebythese.

Place: Mumbai

Date:



Signature of Parent / Guardian



ONLY FOR GIRL STUDENTS
(Junior College)

Name:

Class:

Std & Div:

Date of Joining:

Roll No:

DECLARATION

Form of declaration in regard to
free education to girls I to IV or V
to Xth Std.

In recognized Aided Secondary
School or Jr. College
To,

The Principal
Sir / Madam,

Shri/Smt. _____ parents / guardian of
below mentioned girl student seeking admission studying in the Std.(s) shown against their/hers name(s) here
by declare that I am a resident of Maharashtra State for less than 15 years and that my daughter/
daughter(s) is/are not the fourth or subsequent child/children (born before & after August 1968)

Total No. of children (born before & after August 1968)

| Sr. # | Name | Date of Birth | Std. |
|-------|------|---------------|------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

I know that if this information is proved to be false the concession of free education to my ward(s) will be cancelled

Residential Address:

Signature of Parent / Guardian



INFORMATION ABOUT PARENTS
[TO BE ATTACHED TO THE ADMISSION FORM]

Name in Full(Father):

Occupation:

Designation:

Contact : Land lines :(0) : (R)

: Mobile:

:E-mail :

Name in Full(Mother):

Occupation:

Designation:

Contact : Land lines :(0) : (R)

: Mobile:

:E-mail :

Whether Alumnus of G. N. KhalsaCollege? : Yes No

If Yes, furnish the details: Stream Years :From To

Alumnus required to submit Alumni Association Form separately available with the Receptionist,
Principal'sOffice

My ward is enrolled in yourCollegein ClassinDivision

bearing RollNo.

I can contribute to the institution in the following area (Put tick mark in appropriate box)

PlacementCell Medical Service / ParaMedicalCertificate IndustrialVisit

Sports LiasionOfficer LegalAdvice

Canarrange/GuestLecture/VisitingFacultyinthesubjectof for
Class

CanworkasInvigilatoratthevariousUniversityexaminationsheld intheCollege

Counseling & Career Counseling Research Projects/Summertraining

Anyother, pleasespecify

Place:

Date:

Signature of Parent / Guardian

For Office Use

- 1) I / II Monthly / Quarterly No.
- 2) I / II Monthly / Quarterly No.
- 3) I / II Monthly / Quarterly No.
- 4) I / II Monthly / Quarterly No.
- 5) I / II Monthly / Quarterly No.
- 6) I / II Monthly / Quarterly No.
- 7) I / II Monthly / Quarterly No.
- 8) I / II Monthly / Quarterly No.
- 9) I / II Monthly / Quarterly No.
- 10) I / II Monthly / Quarterly No.

N.B.: Certificate of Birth Dates should be submitted for verification without which no railway concession forms will be issued.



ELECTION COMMISSION OF INDIA

FORM-6

(See Rules 13(1) and 26) of Registration of Electors Rule-1960

Acknowledgement No. (To be filled by office)

Application for Inclusion of Name in Electoral Roll for First time Voter OR on Shifting from One Constituency to Another Constituency.

| | | |
|---|--|---|
| To, The Electoral Registration Officer, _____ Assembly / Parliamentary Constituency _____ | | SPACE FOR PASTING ONE RECENT PASSPORT SIZE PHOTOGRAPH (3.5 CM X 3.5 CM) SHOWING FRONTAL VIEW OF FULL FACE WITHIN THIS BOX |
| I request that my name be included in the electoral roll for the above Constituency. (Tick appropriate box) <input type="checkbox"/> As a first time voter <input type="checkbox"/> or due to SHIFTING from another constituency <input type="checkbox"/> | | |
| Particulars in support of my claim for inclusion in the electoral roll are given below:- | | |
| Mandatory Particulars | | |
| (a) Name | | |
| (b) Surname (if any) | | |
| (c) Name and surname of Relative of Applicant [see item (d)] | <input type="checkbox"/> Father <input type="checkbox"/> Mother <input type="checkbox"/> Husband <input type="checkbox"/> Wife <input type="checkbox"/> Other | |
| (d) Type of Relation (Tick appropriate box) | | |
| (e) Age [as on 1st January of current calendar year] | Years | Months |
| (f) Date of Birth (in DD/MM/YYYY format) (if known) | | |
| (g) Gender of Applicant (Tick appropriate box) | <input type="checkbox"/> Male <input type="checkbox"/> Female <input type="checkbox"/> Third Gender | |
| (h) Current address where applicant is ordinarily resident | | House No. |
| Street/Area/Locality | | |
| Town/Village | | |
| Post Office | | Pin Code |
| District | | State/UT |
| (i) Permanent address of applicant | | House No. |
| Street/Area/Locality | | |
| Town/Village | | |
| Post Office | | Pin Code |
| District | | State/UT |
| (j) EPIC No. (if issued) | | |
| Optional Particulars | | |
| (k) Disability (if any) (Tick appropriate box) | <input type="checkbox"/> Visual impairment <input type="checkbox"/> Speech & hearing disability <input type="checkbox"/> Locomotor disability <input type="checkbox"/> Other | |
| (l) Email id (optional) | | |
| (m) Mobile No. (optional) | | |
| DECLARATION - I hereby declare that to the best of knowledge and belief - (i) I am a citizen of India and place of my birth is Village/Town.....District.....State..... (ii) I am ordinarily resident at the address given at (h) above since..... (date, month, year). (iii) I have not applied for the inclusion of my name in the electoral roll for any other constituency. *(iv) My name has not already been included in the electoral roll for this or any other assembly/parliamentary constituency OR *My name may have been included in the electoral roll for..... Constituency in..... State in which I was ordinarily resident earlier at the address mentioned below and if so, I request that the same may be deleted from that electoral roll. *Strike off the option not appropriate | | |



Date :

Date :

Date :

Date :

Date :

□ □ □ □ □ □

Date :

Date :

Date :

Date :

Date :



| | | | |
|--|------------------|-----------------------------|--|
| Address of earlier place of ordinary residence (if applying due to shifting from another constituency) | | | |
| House No. | | Street/Area/Locality | |
| Town/Village | | | |
| Post Office | | Pin Code | |
| District | | State/UT | |
| I am aware that making a statement or declaration which is false and which I know or believe to be false or do not believe to be true, is punishable under Section 31 of the Representation of the People Act, 1950 (43 of 1950) | | | |
| Place..... | | | |
| Date..... | | Signature of Applicant..... | |
| Remarks of Field Level Verifying Officer: | | | |
| Details of action taken (To be filled by Electoral Registration Officer of the constituency) | | | |
| The application of Shri / Shrimati/Kumari. _____ for inclusion of name in the electoral roll in Form 6 has been accepted/rejected. Detailed reasons for acceptance [under or in pursuance of rule 18/20/26(4)] or rejection [under or in pursuance of rule 17/20/26(4)] are given below: | | | |
| Place | | | |
| Date: | Signature of ERO | | Seal of the ERO |
| Intimation of decision taken (to be filled by Electoral Registration Officer of the constituency and to be posted to the applicant on the address as given by the applicant) | | | |
| The application in Form 6 of Shri/Shrimati/Kumari..... | | | Postage Stamp to be affixed by the Electoral |



| | | | | | | |
|---|--|-----------|-----------|--------------------------------|---|--|
| Current address where applicant is ordinarily resident | | House No. | | | | Registration Authority at the time of dispatch |
| Street/Area/Locality | | | | | | |
| Town/Village | | | | | | |
| Post Office | | | | Pin Code | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | |
| District | | | State/UT | | | |
| Has been (a) accepted and the name of Shri/Shrimati/Kumari..... | | | | | | |
| Has been registered at Serial No..... in Part No..... of AC No..... | | | | | | |
| (b) rejected for the reason..... | | | | | | |
| Date: | | | | Electoral Registration Officer | | |
| | | | | Address..... | | |
| <u>Acknowledgement/Receipt</u> | | | | | | |
| Acknowledgement Number..... | | | Date..... | | | |
| Received the application information of Shri/Smt./Ms..... | | | | | | |
| [Applicant can refer the Acknowledgement No. to check the status of application]. | | | | | | |
| Name/Signature of ERO/AERO/BLO | | | | | | |

UNDERTAKING

(As per Government Gazette No. mebkkeÀerCe&2016/He´.ke´À.683/16/efJeefM e-3efoveebkeÀ15ces2017)

On 01/01/ _____ I am 18 years old / shall attain the age of 18 years.

I promise and undertake that after attaining the age of 18 years I shall register my name on the electoral roll. In this connection I am submitting the prescribed Form No.6.

Date:

Signature of the Student

Aadhar Card No.

(Copy attached)

Address(Local)



Anti-Ragging Act

RAGGING IS AN OFFENCE PUNISHABLE AS PER LAW- RESULTING IN IMPRISONMENT AND / OR HEAVY PENALTY

[REF.: University Grants Commission Circular No. F.1-16/2009(CPP-II), dated September 2009 as per the order of the Hon. Supreme Court of a India vide ref. no.: In SLP No. 24295 of 2006.]

- Ragging means causing physical and / or mental trauma to a person as a result of physical abuse, man handling, using abusive language or gestures or forcing to perform acts that may cause physical/mental damage.
- Ragging is a social, cultural and psychological menace.
- Students are urged to keep-up the glorious tradition of AET Group of Institutions and not to indulge in any activity within or outside the campus that may be construed as or amounts to ragging.
- Any student, if found involved in any such activity directly or indirectly shall not only be expelled from the Institution, but the matter will be reported to Police / Legal authorities, for further necessary action.

**REMEMBER, GURU NANAK KHALSA COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS), MUMBAI, STANDS FOR CULTURE, DISCIPLINE AND ETHICAL VALUES THAT CAN NOT BE COMPROMISED AT ANY COST.
BE AN IDEAL & NOBLE CITIZEN || CURB AND UP-ROOT RAGGING ||**