



# Admission Guidelines

## Rules and Regulations

### 2019 - 20



Progressive Education Society's

**MODERN COLLEGE OF ARTS, SCIENCE AND COMMERCE**

Ganeshkhind, Pune - 411 016

Best College Award from Savitribai Phule Pune University

Accredited by NAAC with 'A' grade

- DST-FIST Sponsored College
- STAR College Status Awarded by Department of Biotechnology
- Best College Award by Student Welfare Board, Savitribai Phule Pune University
- Best N.S.S. Unit Award by Savitribai Phule Pune University
- Best College Magazine Award by Savitribai Phule Pune University, Pune
- First prize for "Efficient Energy Management And Utilisation" by Maharashtra Energy Development Agency (MEDA), Govt. of Maharashtra
- Vanashree Award by Govt. of Maharashtra
- Best College Award by Indian Red Cross Society



**Prof. Dr. Gajanan R. Ekbote**  
M.S.M.N.A.M.S.  
Chairman, B.C., Progressive Education Society, Pune



**Prof. Suresh V. Todkar**  
Jt. Secretary  
Progressive Education Society

Chairman, LMC  
Modern College, Pune-16



**Prof. Shamkant Deshmukh**  
Secretary, Progressive Education Society, Pune



**Dr. Prakash G. Dixit**  
Dy. Secretary  
Progressive Education Society  
Visitor  
Modern College, Pune-16



**Dr. Sanjay Kharat**  
Principal, Modern College, Ganeshkhind, Pune 16

**Our Dynamic Leaders**



# Infrastructure





# Academic Activities



# Scientific - Insights and Extension





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## Progressive Education Society Profile

Progressive Education Society is one of the leading educational institutions in Maharashtra. It was founded by a dedicated and committed teacher Late Shankarrao Kanitkar along with his colleagues in 1934.

The Institution has evolved and made a mark in the arena of education all over Maharashtra due to the ceaseless efforts of the teaching and administrative staff and the foresight of the management. The Institutions run by P. E. Society are known for imparting quality education in their respective fields.

P. E. Society runs 58 educational institutions, which include Pre-Primary, Primary, Secondary, Higher Secondary Schools and General Education and Professional Colleges. The Institution has diversified into areas such as Law, Pharmacy, Management, Engineering, Special education, etc. Since 1985, P. E. Society has made rapid progress under the dynamic leadership of its Chairman Dr. G. R. Ekbote, a well known surgeon.

### MODERN COLLEGE, GANESHKHIND, PUNE -16

Progressive Education Society's Modern College of Art, Science and Commerce, Ganeshkhind, Pune-411 016 was established in 1992 in the vicinity of Savitribai Phule University, with the objective of imparting quality education to students. It is permanently affiliated to the Savitribai Phule Pune University and offers various Under Graduate and Post Graduate courses under Arts, Commerce & Science disciplines. In a short span, the College has achieved laurels in academic, sports, research and extra curricular activities.

The College has been successful in keeping pace with the changing educational scenario, by introducing new career oriented courses. It has firmly established itself as 'Modern' and 'Progressive'. The college has highly qualified and experienced teaching staff, who consistently strive for allround development of the students. In the academic year 2016-2017, NAAC has reaccredited Modern College, Ganeshkhind with 'A' Grade. The college has obtained recognition under 2(F)12(B) of UGC, New Delhi. The college has achieved first position (Best College Category) awarded by Savitribai Phule Pune University for the year 2012-13. The college is now identified as DST-FIST sponsored college by DST Govt. of India. The College is awarded as DBT-STAR Status by DBT, Government of India. The College is also a recipient of 'Vanashree Award' for 2018-19 by Government of Maharashtra & also awarded as Best College by Indian Red Cross Society.

महाराष्ट्र शासन मान्यता क्रमांक:- एन.जी.सी.-३५९१/४३०९/वि.शि.२  
Affiliated to Savitribai Phule Pune University: PUN / PN / ASC/ 089 (1992)  
UGC - Recognition No.: 2 (f) 12(b) - F-8-290 /2009(CPP-I)



## Salient Features

- Prime location (very close to Savitribai Phule Pune University and Chaturshrungi Hills)
- Permanently Affiliated to Savitribai Phule Pune University
- Reaccredited by NAAC with 'A' Grade.
- DBT-STAR status awarded by D.B.T. Govt. of India, New Delhi
- Well qualified and experienced faculty
- Healthy academic environment
- Well equipped Laboratories with internet connectivity
- e-learning facility
- Well stocked library with digital library facilities and internet
- Spacious Reading Hall
- Adequate sports facilities, playground and facilities for Indoor games
- Gymnasium for staff and students
- Active Placement Cell
- Computerised administrative office with co-operative staff
- Spacious well equipped audio-visual hall
- Beautiful green campus with well developed Botanical Garden
- Canteen facility and Spacious Parking
- Participation of students in cultural activities, group discussions, in-house interactions, various competitions, industrial visits, hands on trainings, summer trainings etc.
- High- Tech computer laboratory with latest computers configured with high speed hardware and latest versions of softwares
- Language Laboratory
- Spoken English Course  
Workshop and Hands-on Training
- Research facilities for students
- Public Address System
- Solar - Wind Hybrid Green Energy Generating Project
- Special focus on Industry- Institute Interface
- College magazine 'Akanksha' was awarded 1<sup>st</sup> Prize by Savitribai Phule Pune University.
- Yuva Saptah is the platform for students to express their innovativeness and creativity
- International/National/State level seminars, Workshops & Conferences for continuous academic development of students & staff
- Vividha exhibition for Entrepreneurship Development
- Soft-Skill Development Programme
- Interaction : Inter Collegiate Competition
- Banking Club
- Farmers Club - Farm to Campus
- Modi Script Course
- Annual Book Exhibition
- In house Publications - Kaleidoscope, Commerce Horizon, Pramey, ODYSSEY,
- Litcarnation-A Literary Carnival
- 'Trilingual Dialogue' for North-East State Students
- Tribal Handicraft Exhibition cum Sale
- Arts Circle
- Competitive Examination Cell
- Counselling Centre
- Bachelor of Vocation (B.Voc) Program as per NSQF aligned with NSDC Program of HRD, Govt. of India.
- Facilities for Differently - abled Students.
- Gender Sensitization Programs
- Disha Study Circle
- NGO Connect
- Geography Trekking club

**Modernites - F- 38148 (P):** A registered alumini association of the college, working with the mission of - A silent but powerful movement that transforms.....

## Principal's Address

It gives me immense pleasure to welcome all my dear students to the academic year 2019-20 filled with new insights, innovations, creativity and dedicated efforts to face exciting academic challenges. Modern College has been the gateway to learning, enriching young minds and nurturing them with knowledge and exploring brighter avenues to grow and excel intellectually, morally, socially and emotionally.

Presently Modern College, Ganeshkhind, Pune is one of the popular colleges having blend of both rural and urban students of about 4500 strength, with optimum infrastructure facilities and full of academic resources. National Assessment and Accreditation Council (NAAC) has rightly assessed and reaccredited college with 'A' grade in 2017. College is recipient of 'Best College Award of Savitribai Phule Pune University, DST-FIST and prestigious 'DBT STAR' College Status from Govt. of India etc.

The college has teaching learning program which provides not only academic flexibility but also challenges in learning individual course subjects. We offer various traditional and professional Graduate and Post Graduate Courses under Arts, Commerce and Science faculty. Students with bright academic background also can avail the research facility.

Self financing, value added and Skill development courses equip our students with advanced knowledge and skill set strengthening the survival in realistic world. Every department of the college arrange co-curricular activities in innovative manner to gratify the learning process and enhance the knowledge of the respective subjects. Faculty keenly tries to promote Research and Entrepreneur culture.

Additional support for the under privileged students is extended via remedial teaching, earn and learn scheme and counseling center.



Principal

**Dr. Sanjay S. Kharat**

*M.Sc., Ph.D., LL.B., M.B.A*

Wide range of extracurricular activities such as Swar-Madhuri, Indradhanu, Yuva Saptah, Akanksha: an yearly college publication Shabdganah, Art circle and Sport department are the platforms to enrich inherent qualities of the students. We make the students aware of their social responsibilities and sensitize consciousness of environment by encouraging participation in National Service Scheme.

Our college is a place for professional, intellectual, cultural, moral and ethical grooming of the students.

The success of our students over the years have lead us to widespread recognition. Our alumni are working with leading industries, research centers, educational institutions and placed all over India or abroad. Few Students are national and international players, well known artist, and some students are pursuing their higher studies in eminent foreign universities. Our alumni students share their valuable suggestions and support us in organising different activities for overall development of the college.

I again warmly welcome you to a friendly, caring, safe, modern and progressive environment.



## Administrative Staff

|                              |   |
|------------------------------|---|
| <b>PRINCIPAL</b>             | : <b>Dr. Sanjay Kharat</b>  |
| <b>VICE PRINCIPALS</b>       |   |
| <b>Faculty of Arts</b>       | : Dr. Jyoti Gagangras   |
| <b>Faculty of Science</b>    | : Mrs. Swati Kandharkar   |
| <b>Faculty of Commerce</b>   | : Dr. Shubhangi Joshi   |
| <b>College Exam. Officer</b> | : Dr. Ravindra Kshirsagar   |
| <b>STAFF</b>                 |   |
| <b>Superintendent</b>        | : Mr. Prakash D. Renuse   |
| <b>Head Clerk</b>            | : Ms. Bharti Bhosale  |
| <b>Sr. Clerk</b>             | : Ms. Sunanda Masalkar<br>Mr. Nitin Kakade  |
| <b>Jr. Clerks</b>            | : Mr. Mangesh Nalawade<br>Mr. Mahesh Bandal<br>Ms. Smita Dudhane<br>Ms. Nutan Waghmare<br>Ms. Shubhangi Nawale<br>Mrs. Prerana Nevase<br>Ms. Shivani Kengar |

### INFORMATION AUTHORITIES :

1. Prof. Shamkant Deshmukh (Appellate Authority)
2. Dr. Jyoti Gagangras (Information Officer)
3. Ms. Bharti Bhosale (Assistant Information Officer)

### Office Hours

Monday to Saturday : 10.00 a.m. to 5.30 p.m.  
Cash Transactions : 10.00 a.m. to 1.30 p.m.  
Lunch Break : 1.30 p.m. to 2.00 p.m.  
The office will remain closed on Sundays and Public Holidays

### Library Hours

**Issue / Return**  
**Arts and Commerce**: 9.00 a.m. to 1.00 p.m.  
**Science and Computer Science** : 1.30 p.m. to 5.00 p.m.  
**All PG Students** : 9.00a.m to 1.00 p.m & 1.30 p.m to 5.00p.m  
**Reading Hall** : 8.00 a.m. to 5.30 p.m.  
**Librarian** : Ms. Sangeeta Dhamdhare

## Admission Procedure

**Online Admissions :** Information is available on college website -[www.moderncollegegk.org](http://www.moderncollegegk.org) and *college office*. Students need to purchase 'Admission Guidelines/Prospectus' from College office to get **Unique Id** to be entered in Online Admission.

- A student passing in all subjects at **S.Y. level**, but **failing in any subject at F.Y. level, cannot be admitted to T.Y. level** of U.G. courses of any faculty.
- Students migrating from another National / International University or board **with ATPT/ATKT shall not be eligible** for admission in next higher class of the course selected in SPPU, Pune.
- Students qualifying First Year Examination of the UG Program from any other university and having qualified 10 +2 pattern Certificate Examination are eligible for seeking admission to Second/Third Year Degree Program of SPPU, Pune, if equivalence (Subject to final decision of Equivalence Committee of SPPU, Pune.) is Satisfactory.
- Students migrating from another university and admitted to Third year of three years degree course of SPPU Pune or second year of post graduation of SPPU, Pune **will get pass class only.**

### GENERAL INSTRUCTIONS

**IMPORTANT NOTE : 1st Year B.A./B.Com/B.Sc.Courses :** Credit System will be implemented along with Syllabus restructuring from the Academic Year 2019-20. Students are advised to go through SPPU website for details ([www.unipune.ac.in](http://www.unipune.ac.in))

**1<sup>st</sup> M.A./M.Com./M.Sc Courses :** The syllabus is going to be restructured from the Academic Year 2019-20. Students are advised to go through SPPU website for details ([www.unipune.ac.in](http://www.unipune.ac.in))

1. Admission forms are available on College website - [www.moderncollegegk.org](http://www.moderncollegegk.org).
2. Students seeking admission should enter all the required information in the prescribed admission form and no column in the form should be left blank.
3. Photocopies of the following documents self attested by the student should be submitted along with the print out of the duly filled online admission form.
  - [i] Statement of Marks (Last qualifying examination.)
  - [ii] Passing/Degree certificate (If statement of marks does not indicate clearly-class /percentage of marks obtained by the student in the relevant examination)
  - [iii] Migration certificate (Original) (if applicable). (Original will not be returned)
  - [iv] Leaving Certificate, Transfer certificate, (if applicable). (Original will not be returned)
  - [v] Written Statement regarding gap in education and/or change of name (in the original), (if applicable).
  - [vi] Copy of the admission letter issued by admission authority in case of centralized admission process by the college / university.
  - [vii] If the candidate is not domicile of state of Maharashtra then she /he should submit the domicile certificate.
  - [viii] Non-creamy layer certificate is necessary for DT/NT/OBC/SBC category candidates at the time of final admissions.
  - [ix] Candidates from Maharashtra state belonging to SC/ST/DT/NT/OBC must submit the caste validity certificate.
4. Students must submit the Undertaking Form, duly filled and signed by him/her along with the Admission Form.
5. All the original documents except leaving certificate/ transfer certificate/ migration certificate / gap certificate, etc. will be returned to the concerned student after the same are scrutinized and verified by the college.
6. **Admission will be confirmed only after a student has submitted a Print-out of the duly filled in Online Admission Form and Fee Receipt in the college office.**

### NATURE OF SEATS

**Other State:** Maximum 10% of the sanctioned intake capacity.

**NRI:** Maximum 10% of the sanctioned intake



capacity will be made through Savitribai Phule Pune University Student Center.

**Foreign Students/Foreign Nationals/ PIO:**

Maximum 15% over and above the sanction be made by International Student Center, Savitribai Phule Pune University.

**Jammu & Kashmir Migrants :** Two seats under supplementary quota above the sanctioned intake capacity.

**Reservation**

52% seats of the overall sanctioned intake capacity are reserved for reserved category students from the Maharashtra State.

Reservation is applicable only for Maharashtra domicile SC, ST, DT, NT, OBC, SBC categories as per the Government of Maharashtra G.R. [The students migrating from other states will not be entitled to the concessions/benefits available to the SC/ST/DT/NT/SBC & OBC students of the Maharashtra State.]

**Reservation of differently-abled Candidates:**

Three percent seats of total sanctioned intake capacity shall be reserved for differently-abled

candidates. Out of these seats one percent each is sanctioned for visually-impaired, students with hearing and speech impediments and Orthopedic disorder.

**Note:**

1. Candidates who belong to Special Backward Class (SBC) will be offered reservation upto 2% seats of the seats available for Maharashtra candidates, no separate seats are earmarked.

2. Even if a candidate belongs to Backward Class category and secures admission against a seat that belong to General category by virtue of merit, such a candidate has to produce all the necessary documents in support of the category claimed at the time of admission.

For candidates who cancel their admissions before commencement of the course for the said academic year- his/her entire fee (after deduction of processing fee of not more than Rs.1000/-) shall be refunded to the student.

If the student cancels his/her admission after the commencement of course following scheme will be adapted for the refund of total fees:

**Cancellation of Admission and refund of fees:-** (As per the order dated 24/03/2011. Ref. Number - PUS 7542 dated 17/02/2011)

| No. | Time of Cancellation   | Vacant seat has been filled by another candidate before last date - amount to be deducted |
|-----|--|---|
| 1.  | From 1st day to 10th day (first day is inclusive) from the date of commencement of the course. | 20% of the total fees   |
| 2.  | From 11th to 30th day from the date of commencement (First day is inclusive) of the course.    | 40% of the total fees   |
| 3.  | After 30 days (First day is Inclusive)   | 100% of the total fees  |

**Mode of Fee Payment :**

- **Online payment** using credit / debit card or net banking
- **Demand Draft** drawn in favor of “The Principal, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune-16”.
- **Bank Challan :**  
Granted Courses : Bank of Maharashtra, Senapati Bapat Road, Pune 16.  
Non Grant Courses : The Cosmos Cooperative Bank Ltd., University Road Branch, Pune 7.

**Note:** Any one of the mode can be selected for payment of fees

## Scholarships / Freeships

### शिष्यवृत्ती / फ्री सवलत

| अनु. क्र. | शिष्यवृत्तीचे / फ्रीशीपचे नाव                               | अटी व शर्ती  | शेरा   |
|-----------|---|--|--|
| १.        | भारत सरकारची शिष्यवृत्ती<br>GOI Scholarship                 | <p>फक्त मागासवर्गीय विद्यार्थ्यांसाठी (S.C. / S.T. / N.T.D.T./ V.J./ O.B.C. &amp; S.B.C.) ज्या विद्यार्थ्यांच्या पालकांचे (आई-वडिलांचे) मागील आर्थिक वर्षाचे वार्षिक उत्पन्न S.C. / S.T. साठी रु. २,५०,०००/- पेक्षा कमी आणि N.T.D.T./ V.J./ O.B.C. &amp; S.B.C. या संवर्गासाठी रु. १,००,०००/- पेक्षा कमी आहे असेच विद्यार्थी सदरील शिष्यवृत्तीसाठी अर्ज करू शकतात.</p> <ol style="list-style-type: none"> <li>१. विद्यार्थ्यांचा जातीचा दाखला</li> <li>२. विद्यार्थ्यांचा शाळा सोडल्याचा दाखला</li> <li>३. विद्यार्थ्यांचे गतवर्षाचे गुणपत्रक (मार्कलिस्ट)</li> <li>४. विद्यार्थ्यांच्या पालकांचा मागील वर्षाचा उत्पन्नाचा दाखला (तहसीलदारांचा) आणि पालकांचा उद्योगधंदा असल्यास गतवर्षाची इन्कमटॅक्स रिटर्नची अॅटेस्टेड झेराक्स</li> <li>५. डोमिसाईल प्रमाणपत्र</li> <li>६. S.C. / S.T. संवर्ग सोडून इतर सर्व संवर्गासाठी नॉनक्रिमीलअरसर्टिफिकेट</li> <li>७. शैक्षणिक खंड असल्यास गॅप ऑफिडेव्हीट</li> <li>८. शिक्षणासाठी विद्यार्थी दुसऱ्या जिल्ह्यातून आला असल्यास जिल्हाबदल प्रमाणपत्र.</li> <li>९. वसतिगृहात राहत असल्यास त्या वसतिगृहाचे प्रमाणपत्र. (राहण्याची व जेवणाची सोय हवी.)</li> </ol> <p>व्यावसायिक अभ्यासक्रमांसाठी फक्त S.C. व S.T. या वर्गातील विद्यार्थ्यांनाच समाजकल्याण विभागाकडून शिष्यवृत्तीचा लाभ मिळतो.</p> | <p>सदरील शिष्यवृत्तीचे अर्ज ऑनलाईन भरावे लागतील.</p> <p><a href="http://www.mahadbtmahait.gov.in/escholarship/login.aspx">www.mahadbtmahait.gov.in/escholarship/login.aspx</a><br/>CBSE/ICSE</p> |
| २.        | स्कॉलरशीप फॉर टेलन्ट डेव्हलपमेंट इन मॅथमॅटिक्स अँड फिजिक्स  | <p>सदरील शिष्यवृत्ती फक्त F. Y. B.Sc. च्या विद्यार्थ्यांसाठी असते. गणित व भौतिकशास्त्र या विषयात किमान ६०% गुण असणे आवश्यक आहे आणि तेच विषय घेऊन पदवी पूर्ण करावी लागेल.</p> <p>इ. १२ वी च्या गुणपत्रकाची झेरॉक्स प्रत जोडावी.</p>   |  |
| ३.        | सेंट्रल सेक्टर शिष्यवृत्ती<br>Central Sector<br>Scholarship | <p>अर्जदार भारतीय नागरिक व महाराष्ट्र राज्याचा रहिवासी असावा. पालकांचे वार्षिक उत्पन्न ४.५० लाखापेक्षा जास्त नसावे. इ. १२ वी मध्ये किमान ८० टक्के गुण असावेत. अर्जदार इतर कोणत्याही शिष्यवृत्ती योजनेचा / स्टायपेंड योजनेचा लाभार्थी नसावा. केंद्र शासनाच्या नियमाप्रमाणे अर्जदार नॉन-क्रिमिलेअर वर्गात बसणारा असावा.</p>  | <p><a href="http://www.edu.nic.in">www.edu.nic.in</a><br/><a href="http://www.dirhe.org.in/pms">www.dirhe.org.in/pms</a><br/>या संकेतस्थळावर सदरील अर्ज उपलब्ध आहे.</p>                          |

### FEE CONCESSIONS

Fee concession to students are available as per the rules and regulations of Govt. of Maharashtra.

**Note:** For claiming all types of State and Central Government scholarships a student has to fill the online application form (website - [www.mahadbtmahait.gov.in](http://www.mahadbtmahait.gov.in) link e-scholarship)

After filling the online application form, the student has to submit the hard copy to the office and get an acknowledgment. Students are advised to check the Scholarship notice board regarding details of various scholarships from time to time.

## Scholarships / Freeships

| अनु. क्र. | शिष्यवृत्तीचे/फ्रीशीपचे नाव  | अटी व शर्ती  | शेरा  |
|-----------|--|--|---|
| ४.        | राज्य सरकारची नादारी<br>B. C. Freeship   | <p>फक्त मागासवर्गीय विद्यार्थ्यांसाठी<br/>(S.C. / S.T. / N.T.D.T./ V.J./ O.B.C. &amp; S.B.C.)<br/>ज्या विद्यार्थ्यांच्या पालकांचे (आई-वडिलांचे) मागील<br/>आर्थिक वर्षाचे वार्षिक उत्पन्न S.C. / S.T.<br/>रु. २,५०,०००/- पेक्षा जास्त आणि N.T.D.T./V.J./<br/>O.B.C. &amp; S.B.C. या संवर्गासाठी रु. १,००,०००/-<br/>जास्त असेल असेच विद्यार्थी (Freeship)<br/>नादारीसाठी अर्ज करू शकतात.</p> <ol style="list-style-type: none"> <li>विद्यार्थ्यांचा जातीचा दाखला</li> <li>विद्यार्थ्यांचा शाळा सोडल्याचा दाखला</li> <li>विद्यार्थ्यांचे गतवर्षाचे गुणपत्रक (मार्कलिस्ट)</li> <li>विद्यार्थ्यांच्या पालकांचा मागील वर्षाचा<br/>तहशीलदाराचा उत्पन्नाचा दाखला<br/>Validity -Compulsory</li> <li>S.C. / S.T. संवर्ग सोडून इतर सर्व संवर्गासाठी<br/>नॉनक्रिमीलेअर सर्टिफिकेट</li> <li>शैक्षणिक खंड असल्यास गॅप ऑफिडेव्हीट<br/>व्यावसायिक अभ्यासक्रमांसाठी फक्त S.C. व S.T. या<br/>वर्गातील विद्यार्थ्यांनाच समाजकल्याण विभागाकडून<br/>शिष्यवृत्तीचा लाभ मिळतो.</li> </ol> | <p>सदरील शिष्यवृत्तीचे अर्ज<br/>ऑनलाईन भरावे लागतील.<br/><a href="http://www.mahadbtmahait.gov.in/escholarship/login.aspxCBSE/ICSE">www.mahadbtmahait.gov.in/escholarship/login.aspxCBSE/ICSE</a></p>   |
| ५.        | राजश्री छत्रपती शाहू महाराज<br>शिक्षण शुल्क शिष्यवृत्ती योजना<br>(फक्त खुल्या गटांसाठी)                            | <ol style="list-style-type: none"> <li>डोमिसाईल प्रमाणपत्र</li> <li>उत्पन्न दाखला (तहशीलदारांचा)</li> <li>रेशन कार्ड</li> <li>हमी पत्र</li> <li>शाळा सोडल्याचा दाखला</li> <li>आई वडील व स्वतःचे आधार कार्ड</li> </ol>  | <p>ऑनलाईन पद्धतीने अर्ज भरावे<br/>लागतील<br/><a href="http://www.mahadbtmahait.gov.in">www.mahadbtmahait.gov.in</a><br/>विद्यार्थ्यांचे बँक अकाउंट नंबर<br/>आधार नंबरशी जोडणे<br/>आवश्यक. मोबाइलला नंबर<br/>सुद्धा आधारला लिंक<br/>असावा.</p> |
| ६.        | प्राथमिक शाळेतील<br>शिक्षकांच्या<br>पाल्यांना मिळणारी<br>फी सवलत P.T.C.  | <p>ज्या विद्यार्थ्यांचे पालक (आई-वडील) प्राथमिक शाळेत<br/>शिक्षक आहेत त्यांच्या पाल्यांना सदरील फी सवलत<br/>मिळेल. सदरील अर्जावर मुख्याध्यापक व ज्या<br/>अधिकाऱ्यांच्या कक्षेत शाळा आहेत त्यांचा सही व शिक्का<br/>आणणे आवश्यक आहे.<br/>उदा. (गटविकास अधिकारी, शिक्षणप्रमुख इत्यादी)</p>  | <p>सदरील शिष्यवृत्तीचे अर्ज<br/>महाविद्यालयाच्या कार्यालयात<br/>उपलब्ध आहेत.</p>  |
| ७.        | माध्यमिक व उच्च<br>महाविद्यालयातील<br>शिक्षक / शिक्षकेतर<br>कर्मचाऱ्यांच्या<br>पाल्यांना मिळणारी<br>फी सवलत S.T.C. | <p>अनुदानित व सरकारमान्य माध्यमिक व उच्च<br/>महाविद्यालयामध्ये किंवा कनिष्ठ महाविद्यालयामध्ये पूर्णवेळ<br/>असणाऱ्या शिक्षक / शिक्षकेतर कर्मचाऱ्यांच्या पाल्यांना ही<br/>फी सवलत मिळेल.<br/>ज्या पाल्यांचे पालक पुणे जिल्हाव्यतिरिक्त इतर जिल्हांच्या<br/>शाळांमध्ये आहेत त्यांनी मा. मुख्याध्यापक व मा.<br/>शिक्षणाधिकार्यांची सही घेणे आवश्यक आहे.</p>  | <p>सदरील शिष्यवृत्तीचे अर्ज<br/>महाविद्यालयाच्या कार्यालयात<br/>उपलब्ध आहेत.</p>  |

## Scholarships / Freeships

| अनु. क्र. | शिष्यवृत्तीचे/ फ्रीशिपचे नाव  | अटी व शर्ती  | शेरा  |
|-----------|---|--|---|
| ८.        | माजी सैनिकांच्या पाल्यांना मिळणाऱ्या फ्री सवलती<br>Ex-Servicemen  | माजी स्वातंत्र्य सैनिकांच्या पाल्यांना (एक्स-सर्व्हिसमन फ्रीशिप) मिळणारी फ्री सवलत, कोरे अर्ज घेण्यासाठी जिल्हा सैनिक बोर्डकडून पालक एक्स-सर्व्हिसमन असल्याचा दाखला आणून देणे आवश्यक आहे. सदरील अर्जावर जिल्हा सैनिक बोर्डाचा सही-शिकका आणणे आवश्यक आहे.   | जिल्हा सैनिक बोर्डातून अर्ज घेऊन त्यावर महाविद्यालयाच्या शिकका घेऊन जिल्हा सैनिक बोर्डाचा सही-शिकका घ्यावा त्यानंतर महाविद्यालयातील फ्री सवलतीचा अर्ज घ्यावा. |
| ९.        | स्वातंत्र्य सैनिकांच्या मुलांना व नातवंडांना (हयात नसलेल्या मुलांची) मिळणारी फ्री सवलत<br>Freedom Fighter | ज्या पाल्यांचे पालक (आई-वडील) स्वातंत्र्य सैनिक असतात त्यांच्याच पाल्यांना ही शिष्यवृत्ती मिळते. या स्वातंत्र्य सैनिकांना शासनाने सन्मानपत्र दिलेले असते. सन्मानपत्राची झेरॉक्स कॉपी मार्कलिस्टची झेरॉक्स कॉपी अटेस्टेड  | सदरील शिष्यवृत्तीचे अर्ज महाविद्यालयाच्या कार्यालयात उपलब्ध आहेत.   |
| १०.       | आजी सैनिकांच्या पाल्यांना मिळणारी फ्री सवलत<br>Service Personnal  | आजी सैनिक जे सध्या सेवेत आहेत त्यांच्या पाल्यांना मिळणारी फ्री सवलत जिल्हासैनिक बोर्डकडून कॅटेगरी सर्टिफिकेट (सेवेत असल्याचे प्रमाणपत्र)   | सदरील शिष्यवृत्तीचे अर्ज महाविद्यालयाच्या कार्यालयात उपलब्ध आहेत.   |
| ११.       | अपंग शिष्यवृत्ती<br>Physically Handicapped Sch.   | अर्जासोबत वैद्यकीय दाखला - सिव्हील सर्जन किंवा अर्थोपेडिक यांचे सही-शिककाचा असावा. अर्जदार विद्यार्थी मुकबधिर असेल तर वैद्यकीय दाखला इ.एन.टी. स्पेशलिस्ट डॉक्टरांचे सही-शिककाचा असावा. अर्जदार विद्यार्थी अंध असेल तर वैद्यकीय दाखला आय स्पेशलिस्ट सर्जन / सिव्हील सर्जनचे सही-शिककाचा असावा. अर्जासोबत मागील वर्षाचा उत्पन्नाचा दाखला जोडावा. अर्जासोबत पूर्ण फोटो जोडावा. लगतच्या वार्षिक परीक्षेत विद्यार्थ्यांस शेंकडा ४०% गुण मिळणे आवश्यक आहे. |   |
| १२.       | एकलव्य शिष्यवृत्ती<br>Eklavya Scholarship   | ही शिष्यवृत्ती फक्त पदव्युत्तर अभ्यासक्रमासाठी आहे. विद्यार्थ्यांचे पालक भारताचे नागरिक असावे. विद्यार्थ्यांचे पालक महाराष्ट्र राज्याचे रहिवासी असावे. पालकांचे मागील आर्थिक वर्षाचे उत्पन्न रु. १००,०००/- असावे. मागील वर्षात T.Y.B.A. व T.Y.B.Com. मध्ये ६० टक्के आणि T.Y.B.SC. मध्ये ७० टक्के गुण असणे आवश्यक नूतनीकरणकारिता किमान ७५ टक्के उपस्थिती व पहिल्या वर्षी सर्व विषयात उत्तीर्ण होवून किमान ५० टक्के गुण आवश्यक आहेत.                   |   |
| १३.       | आर्थिकदृष्ट्या मागासलेल्या वर्गातील गरीब, गुणवत्ताधारक विद्यार्थ्यांना अर्थसहाय्य                         | अर्जदार भारतीय नागरिक व महाराष्ट्र राज्याचा रहिवासी असावा. अर्जदार इतर कोणत्याही शिष्यवृत्ती योजनेचा/स्टायपेंड योजनेचा लाभार्थी नसावा. विद्यार्थ्यांच्या कुटुंबातील सर्व कमावत्या सदस्यांचे (आईवडील व इतर) वार्षिक उत्पन्न रु.१.५ लाखापेक्षा जास्त नसावे. मागील परीक्षेत कमीत कमी ६५ टक्के गुण असावे. रु. २०/- च्या स्टॅम्पपेपर हमीपत्र.   |   |



## Scholarships / Freeships

| अनु. क्र. | शिष्यवृत्तीचे/ फ्रीशिपचे नाव  | अटी व शर्ती   | शेरा   |
|-----------|---|---|--|
| १४.       | अल्पसंख्याक समाजातील गुणवत्ताधारक विद्यार्थ्यांना केंद्र शासनाची मॅट्रिकोत्तर शिष्यवृत्ती योजना<br>Minority Scholarship | मुस्लिम, ख्रिश्चन, शीख, बौद्ध, पारशी समाजातील विद्यार्थींच या शिष्यवृत्तीसाठी अर्ज करू शकता. अर्जदार भारतीय नागरिक व महाराष्ट्र राज्याचा रहिवासी असावा. किमान ५० टक्के गुण प्राप्त झालेला विद्यार्थी पात्र राहिल. अर्जदार इतर कोणत्याही शिष्यवृत्ती योजनेचा/ स्टायपेंड योजनेचा लाभार्थी नसावा. अर्जदाराच्या पालकांचे एकत्रित वार्षिक उत्पन्न रुपये २ लाखापेक्षा जास्त नसावे. अल्पसंख्याक कुटुंबातील फक्त दोन अपत्यांनाच सदर योजनेचा लाभ देण्यात येईल. | <a href="http://www.dirhe.org.in/pms">www.dirhe.org.in/pms</a><br>या संकेतस्थळावर सदरील अर्ज उपलब्ध आहे. |
| १५.       | क्रांतीज्योती सावित्रीमाता फुले शिष्यवृत्ती, पुणे विद्यापीठ, पुणे   | ही शिष्यवृत्ती पदवी व पदव्युत्तर अभ्यासासाठी प्रवेश घेतलेल्या फक्त विद्यार्थिनींसाठी आहे. या शिष्यवृत्तीसाठी अर्ज करणाऱ्या विद्यार्थिनीला इतर कोणत्याही शिष्यवृत्तीसाठी अर्ज करता येणार नाही. मागील परीक्षेत कमीत कमी ५० टक्के गुण असावे. मागील वर्षाचे वार्षिक उत्पन्न रु. १,५०,०००/- पर्यंत असावे.  | <a href="http://www.unipune.ernet.in">www.unipune.ernet.in</a><br>या संकेतस्थळावर सदरील अर्ज उपलब्ध आहे. |

## Scholarships offered by the College

|     |   |   |
|-----|---|---|
| 16. | Modern College of Arts, Science & Commerce, Ganeshkhind, Pune - 16. Endowment Prize | Awarded to the students standing 1 <sup>st</sup> in first year & second year of BA., B.Com., B.Sc., B.Sc (Comp.Sc.), B.Sc. (Microbiology) & M.Sc. (Biotechnology) |
| 17. | Sports Scholarship  | Awarded to the students who have won medals at All India Inter University tournament.   |

## Scholarships offered by alumni under Modernites Alumni Association

| Sr.No | Name of Scholarship  | Details  |
|-------|--|--|
| 1     | <b>Gollapudy Scholarship I(I)</b><br>Sponsored by Mr. Sandeep Gollapudy in the memory of his father Ramesh Gollapudy.    | Any commerce student who is economically backward and secured at least 60% marks in previous examination                     |
| 2     | <b>Gollapudy Scholarship I(II)</b><br>Sponsored by Mr. Sandeep Gollapudy in the memory of his mother Laxmibai Gollapudy. | Any student of Arts, Commerce and Science who is economically backward and secured at least 60%marks in previous examination |

|   |   |   |
|---|---|---|
| 3 | <b>Atal Scholarship</b><br>Sponsored by Mr. Anand Parchure with the intension to sponsor the scholarship in lifelong. | Any five students of Arts, Commerce and Science who are economically backward and secured at least 60% marks in previous examination  |
| 4 | <b>Rani Laxmibai Shisyavrutee</b><br>Sponsored by Mr. Anand Parchure for women empowerment.                           | Any three female students of Arts, Commerce and Science, who have secured at least 60%marks in previous examinations out of which one scholarship will be given to female student who is having her own business. |
| 5 | <b>Tapkir Scholarship</b><br>Sponsored by Mrs. Vanita Kunjir in the memory of her father Mr. Shankar Tapkir           | Any four commerce students who are economically backward and secured at least 60% marks in previous examination   |
| 6 | <b>Nisal Scholarship</b><br>Sponsored by Mr. Amey Nisal   | Any commerce student who is economically backward and secured at least 60%marks in previous examination and preparing for any of the competitive examinations   |

**Aadhar Card:** As per the ambitious "Direct Cash Transfer" project by Central Government, **Aadhar Card UID No.** is compulsory for all the students seeking financial assistance from Government. Without an UID No. a student is not entitled to get the benefits of Govt. scholarships, freeships, etc.

## International Students' Admission

Online Admissions of International Students are coordinated through a nodal agency, i.e International center of Savitribai Phule Pune University (SPPU).

International Students are advised to visit SPPU, Pune Website;[www.unipune.ac.in](http://www.unipune.ac.in)

## PG Courses : Important Academic Note

1 In pursuance of the decision to implement credit system at the post graduate level and ensure continuous assessment, the SPPU has decided to implement the credit & semester system (CSS) in all affiliated colleges and recognized institutions where post graduate courses are conducted.

### 2. Conduct of the Credit and Semester System in PG Centers

2.1 The Post-graduate degree will be awarded to students who obtain minimum number of credit as mentioned in table below:

| Sr. No. | Name of the Faculty   | Total Credits | Average credits per semester |
|---------|---|---------------|------------------------------|
| 1.      | Faculty of Science, Engineering, Pharmacy, Management, Technology.                        | 100           | 25                           |
| 2.      | Faculty of Arts, Fine Arts, Social Sciences, Commerce, Education, Physical Education, Law | 64            | 16/32                        |

**First Year MA/ M.Com/M.Sc Courses Syllabus is going to be restructured from the Academic Year 2019-20**

Except practical credits wherever applicable, students may be allowed to obtain less courses per semester on a condition that they complete the degree in a maximum of four years. This facility will be available subject to the availability of concerned courses in a given semester and with a maximum variation of 25% credits (in case of fresh credits) per semester.

2.2 The proportion of Laboratory courses shall be around 40% of total credits. Project work, if included, shall consist of NOT more than 10% of total credits in Science and 05% of total credits in non-Science degree programmes.

2.3 One credit will be equivalent to 15 clock hours of teacher- student contact per semester. There will be no mid-way change allowed from CSS to non-credit (external) system or vice versa.

### 3. Examination Rules:

3.1 Assessment shall consist of **a)** In-semester continuous assessment (CA) **b)** end-semester assessment, both shall have an equal weight age of 50% each.

3.2 The teacher concerned shall announce the unit for which each in-semester assessment

will take place. However, the end-semester assessment shall cover the entire syllabus prescribed for course.

3.3 CA in-semester assessment of 50% marks will be continuous and at least two tests should be conducted for full course of 4/5 credits and in addition to it at least two following mechanisms:

- i. Written Test and/or Mid Term Test (not more than one or two for each course)
- ii. Term paper,
- iii. Journal/Lecture/Library notes,
- iv. Seminar presentation,
- v. Short Quizzes,
- vi. Assignments,
- vii. Extension work,
- viii. An Open Book Test (books to be decided by the concerned teacher).
- ix. Mini Research Project by individual student or group of students.

3.4 End semester and examination for remaining 50% marks will be conducted by the SPPU.

3.5 The student has to obtain 40% marks in the combined examination of In Semester assessment and Semester-End assessment with a minimum passing of 30% in both



these separately.

- 3.6 To pass the degree course, a student shall have to get minimum aggregate 40% marks in each course.
- 3.7 If a student misses an internal assessment examination he/she will have a second chance with the permission of the Principal in consultation with the concerned teacher. Such a second chance shall not be the right of the student.
- 3.8 Internal marks will not change. A student cannot repeat Internal Assessment. In case she/he wants to repeat internal assessment she/he can do only by registering for the said courses during the 5th/6th semester and onwards up to 8th semester.
- 3.9 Students who have failed semester-end exam may reappear for the semester -end examination only twice in subsequent period. The student will be finally declared as failed if she/he does not earn minimum number of credits within a total period of four years (for 2 Yrs. P.G. Program) Five years (for 3 yrs. P. G. Program). After that, such students will have to seek fresh admission as per the admission rules prevailing at that time.

**3.10 A Student cannot register for the third**

**semester, if she/he fails to complete 50% credits of the total credits expected to be ordinarily completed within two semesters.**

- 3.11 There shall be Revaluation of the answer sheets of Semester-End examination but not of internal continues assessment papers as per Ordinance No.134A&B.
- 3.12 While marks will be given for all examinations, they will be converted into grades. The semester end grade sheets will have only grades and final grade sheets and transcripts shall have grade points average and total percentage of marks (up to two decimal points). The final grade sheet will also indicate the PG Center to which the candidate belongs.
4. Assessment and Grade point average:

**4.1 The system of evaluation will be as follows :** Each assignment/test will be evaluated in terms of grades. The grades for separate assignments and the final (semester-end)examination will be added together and then converted into a grade and later a grade point average. Results will be declared for each semester and the final examination will give total grades and grade point average.

| Marks/ Grade/Grade Point<br>w.e.f. AY 2015-16 |                  |             | Final Grade W.e.ef. the AY 2015-16<br>(10Point Scale):                  |       |
|---|------------------|-------------|---|-------|
| Marks   | Grade            | Grade Point | Grade Point Average   | Grade |
| 80-100  | O: Outstanding   | 10          | 09.00 - 10.00   | O     |
| 70-79   | A+ : Excellent   | 9           | 08.50 - 09.00   | A+    |
| 60-69   | A: Very Good     | 8           | 07.50 - 08.40   | A     |
| 55-59   | B+: Good         | 7           | 06.50 - 07.49   | B+    |
| 50-54   | B: Above Average | 6           | 05.50 - 06.49   | B     |
| 45-49   | C: Average       | 5           | 04.25 - 05.49   | C     |
| 40-44   | P: Pass          | 4           | 04.00 - 04.24   | P     |
| 0-39  | F:Fail           | 0           | 00.00 - 03.99   | F     |
|   | Ab: Absent       | 0           | Remark: B+ is equivalent to 55% marks and B is equivalent to 50% marks. |       |

### 5. Important: Compulsory Credits

A student will have to earn minimum 75% compulsory credits incorporated in the syllabus structure of the course chosen from parent department. The remaining 25% credits can be earned from courses offered by parent department or other Department /subjects with credit system structure. As per the Savitribai Phule Pune University guidelines, to complete the remaining 25% credits following 10 credits are compulsory.

Note: Among the three courses under Human Rights Education Programme, (HRE 101 introduction to Human rights and Duties) is the compulsory Course. In other two courses (HRE 102:Human Rights of Vulnerable and Disadvantaged Groups and HRE 103: Human Rights and Duties in India :Law ,Policy, Society and Enforcement Mechanism )students are free to select any one paper as per the decision of the head of the institution. Human rights programme is Self Study programme. Study material is available on university website.

|               |              | Human Rights | Introduction to Cyber security/ information security | Skill Development | Total Credits |
|---------------|--------------|--------------|--|-------------------|---------------|
| First Year    | Semester I   | 1 credit     | 1 credit   | -                 | 2 credits     |
|               | Semester II  | 1 credit     | 1 credit   | -                 | 2 credits     |
| Second year   | Semester III | -            | 1 credit   | 2 credits         | 3 credits     |
|               | Semester IV  | -            | 1 credit   | 2 credits         | 3 credits     |
| Total Credits |              | 2 credits    | 4 credits  | 4 credits         | 10 credits    |

### 6. Human Organ Donor

As per the Government of Maharashtra Public Health Department Notification and Savitribai Phule Pune University, Pune, Circular, students seeking admission to Post Graduate Courses of our College are encouraged to donate cadaver organs. Students will have to fill and submit the declaration form alongwith admission form. Organ donation pledge will be incorporated on interested students identity card.



## Academic Calendar 2019-20 (First Half)

|                  | FIRST WEEK   | SECOND WEEK   | THIRD WEEK   | FOURTH WEEK   |
|------------------|--|---|--|---|
| <b>MAY</b>       | 1. Printing of Brochures   |   | 1. Admission Committee Meeting   |   |
| <b>JUNE</b>      | 1. SY Class Admission<br>2. Time Table Committee meeting                                   | 1. FY Admission   | 1. Common Staff Meeting<br>2. Commencement of SY Teaching<br>3. TY Admission   | 1. Commencement of TY Teaching<br>2. Inauguration of Staff Academy                                  |
| <b>JULY</b>      | 1. Commencement of FY Teaching.<br>2. Induction Programme for Students<br>3. Parent's Meet | 1. Admissions of PG Classes<br>2. Filling up Scholarship & Free Ship Forms<br>3. Beginning of Science Practical | 1. Declaration of Merit list of PG (Science) Courses<br>2. Selection of Earn & Learn Students<br>3. Selection of NSS, NCC Students | 1. Commencement of PG Classes   |
| <b>AUGUST</b>    | 1. FY BCom. Tally Practical commencement<br>2. Science PG programme practical commencement | 1. Inauguration of EDC<br>2. Independence Day flag Hoisting (15th August)                                       | 1. Filling of Exam. Forms<br>2. Spoken English (Value Added Course)<br>3. Modi Script (Add on Course)<br>4. Soft Skill Programme   | 1. Gender Sensitization Programme<br>2. Science Association Inauguration<br>3. Soft Skill Programme |
| <b>SEPTEMBER</b> | 1. Blood Donation World Population Day Program<br>2. Placement Cell Activity               | 1. Internal Exam.SY/TY (science)<br>2. Health Checkup-FY Classes  | 1. Commerce backlog examinations.<br>2. Science backlog Practical examination  | 1. Dead stock verification<br>2. NIRF Registration  |



## Academic Calendar 2019-20 (Second Half)

|                 | FIRST WEEK   | SECOND WEEK   | THIRD WEEK   | FOURTH WEEK  |
|-----------------|--|---|--|--|
| <b>OCTOBER</b>  | 1. University Examination  | 1. University Examination   | 1. B. A./B.Com. Term End Exam<br>2. PG Mid Semester Exams<br>3. Term End Meeting | Diwali Vacation  |
| <b>NOVEMBER</b> | Diwali Vacation  |   | 1. EVS Course  | 1. EVS Course  |
| <b>DECEMBER</b> | 1.PG Practical Exams<br>2. Annual Sports<br>3. Soft Skill Programme              | 1. Soft Skill Programme<br>2. Declaration of B. A., B. Com., term end exam result   | 1.Educational Tours  | 1. Parent's Meet<br>2. NSS Winter Camp<br>3. Science Exhibition (Anubhuti)   |
| <b>JANUARY</b>  | 1. Educational Tours<br>2. Submission of AISHE data                              | 1.Celebration of Vivekananda Jayanti&YuvaSaptaha Begins<br>2.Alumni Meet-VIVIDHA<br>3. 'Interaction' Computer Dept. IntercollegiateActivity<br>4. Annual Prize Distribution<br>5. Modern Shree        | 1.Filling up of Exam. Forms<br>2. Gender Sensitization Programme                 | 1. Celebration of Kanitkar Day(25 <sup>th</sup> Jan)<br>2. Republic Day Flag Hoisting (26 <sup>th</sup> Jan)   |
| <b>FEBRUARY</b> | 1. Program of Vidhyarthini Manch<br>2. P T Examination                           | 1. P T Examination  | 1.PT Examinations<br>2. Special Term-end examination                             | 1. Internal Examinations Science<br>2. Environmental Awareness Examinations<br>3 Dead stock verification.  |
| <b>MARCH</b>    | 1.University Practical Examinations (B.Com/B.Sc)                                 | 1.University Practical Examinations (B.Com/B.Sc)  | 1.University Practical Examinations (B.Com/B.Sc)                                 | 1.Preparation of AQAR<br>2.University UG Examination   |
| <b>APRIL</b>    | 1. University UG Examination<br>2. Planning of Committees for next Academic Year | 1. University UG Examination<br>2. PG Practical Examinations,<br>2. Printing of Prospectus, Admission forms<br>3. Submission of Departmental and Committee reports to Central Documentation Committee |  | 1. MA/M.Com Project Viva<br>2. Year End Meeting & Distribution of Committee Work & College<br>1. Assessment of workload for advertisement for new posts<br>2. University PG Examinations |

## Courses Offered

### UNDER GRADUATE COURSES

1. B.A. (Economics, English, Geography, History, Psychology, Sociology)
2. B.Com (Business Entrepreneurship/Cost & Work Accounting / Marketing Management / Banking & Finance)
3. B.Sc. (Microbiology/ Chemistry/ Physics/ Botany / Zoology/Mathematics)
4. B.Sc. (Computer Science)
5. B. Sc. (Biotechnology)
6. B.B.A. (C.A.)
7. B. Voc (Green House Technology and Food Processing)
8. B.C.A. (Science)
9. B.Sc (Statistics) - proposed

### POST GRADUATE COURSES

1. M. Sc. (Computer Science)
2. M. Sc. (Microbiology)
3. M. Sc. (Organic Chemistry)
4. M. Sc. (Biotechnology)
5. M. Sc. (Zoology)
6. M. Com. (Advanced Accounting /Business Administration)
7. M.A. (Economics)
8. M.A. (Sociology)
9. M.A. (History)
10. M Phil (Microbiology)
11. Ph.D (Microbiology)
12. M.Phil. (Zoology)
13. Ph.D. (Zoology)
14. MA (Psychology)
15. Ph.D (Biotechnology)
16. M.Phil (Chemistry)

*Note : Regarding the details of the eligibility conditions for above courses, students are advised to visit the Savitribai Phule Pune University website: [www.unipune.ac.in](http://www.unipune.ac.in)*

**Value added Autonomous courses designed by every department in consultation with industry requirement**

**Important Academic Note :** The detail syllabus for all above U.G. & P.G. courses is available on University website [www.unipune.ac.in](http://www.unipune.ac.in) and college website - [www.moderncollegegk.org](http://www.moderncollegegk.org).

### Important Note :

**For change in the Subject :** If the Candidate wants to change the subject it should be done within 10 days after taking admission to respective class or 15<sup>th</sup> July 2019 whichever is earlier.

For change in the subject, use application proforma provided in the prospectus.



## Skill Development Courses offered by the College

| No.                     | Course Name   | Course Co-Ordinator       | Name of the Department |
|-------------------------|---|---------------------------|------------------------|
| <b>Arts Faculty</b>     |   |                           |                        |
| 1                       | Basics of Business Communication  | Dr. Shampa Chakravorthy   | English                |
| 2                       | Marathi D.T.P.  | Dr. Sanskriti Awalgaonkar | Marathi                |
| 3                       | Skills in Psycho Social Counselling                                       | Dr. Sadhana Natu          | Psychology             |
| 4                       | Certificate Course in Social Services & Welfare                           | Dr. Jyoti Gagangras       | Sociology              |
| 5                       | Diversity Inequality & Public Policy                                      | Dr. Jyoti Gagangras       | Sociology              |
| <b>Commerce Faculty</b> |   |                           |                        |
| 1                       | Transformation Course   | Ms. Vijaylaxmi Kulkarni   | Commerce               |
| 2                       | Computerised Financial Accounting Programme (Tally ERP 9)                 | Prof. Moreshwar           | Commerce               |
| 3                       | Certificate Course in E-Filing of Income Tax Returns                      | Prof. Moreshwar           | Commerce               |
| 4                       | Entrepreneurship Development Programme                                    | Prof. Sujata Deshmukh     | Commerce               |
| <b>Computer Science</b> |   |                           |                        |
| 1                       | Making Bakery Products  | Ms. Dipali Tamhane        | Computer Sc.           |
| 2                       | Web Designing, Development and Hosting                                    | Prof. Satish Ambike       | Computer Sc.           |
| 3                       | Computer Networks   | Prof. Sapkal Kumud        | Computer Sc.           |
| <b>Science Faculty</b>  |   |                           |                        |
| 1                       | Skill Development Program (Applied Zoology)                               | Dr. Shakera Inamdar       | Zoology                |
| 2                       | Solar PV System Installation and Maintenance                              | Prof. Vaishali Salunke    | Electronics            |
| 3                       | Printed Circuit Board Designing   | Prof. Vaishali Salunke    | Electronics            |
| 4                       | Repairing and Maintenance of Electrical & Home Appliances                 | Prof. Abanave Chhaya      | Physics                |
| 5                       | Repair and Maintenance of Mobile Cell                                     | Prof. Deepak S.Kumbhar    | Electronics            |
| 6                       | Quality Control in Laboratories and Industries                            | Prof. Gauri Bhagat        | Microbiology           |
| 7                       | Mathematical Modelling in Life Sciences                                   | Prof. Swati Kandharkar    | Mathematics            |
| 8                       | Use of Scilab Software  | Prof. Shamal Deshmukh     | Mathematics            |
| 9                       | C-Programming   | Prof. Jayashree Jain      | Mathematics            |
| 10                      | Vedic Mathematics   | Prof. Pratiba Pawar       | Mathematics            |
| 11                      | Recent Trends in Biological Techniques                                    | Dr. Shakera Inamdar       | Zoology                |
| 12                      | Archeology and Organic Evolution  | Prof. Varsha Joshi        | Physics & Zoology      |
| 13                      | Diversity & Taxonomy with special reference to Entomofauna                | Dr. Shakera Inamdar       | Zoology                |
| 14                      | Research Methodology and skill  | Dr. Ravinda Kshirsagar    | Zoology                |
| 15                      | Blogging and CMS  | Dr. Sangeeta Dhamdhare    | Library                |
| 16                      | Travel and Tourism  | Prof. Motilal More        | Geography              |
| 17                      | Natural Products Biotechnology  | Dr. Vinay Kumar           | Biotechnology          |
| 18                      | Finishing School  | Dr. Shampa Chakravorthy   | English                |
| 19                      | Community College (Proposed)<br>Beauty & Wellness - Certificate & Diploma |                           |                        |

**Note: Each student shall complete at least two skill development courses from his / her faculty.**



# Arts Faculty

## Profile

Separate Departments for Subjects at Special Level with ICT Facility.

Under Graduate Departments- Economics, History, Sociology, Geography, English & Psychology

Post Graduate Department – Economics, Sociology & History

Organized State and National Level Conferences for Staff and Students

Ongoing Research Projects of Staff & Students

Various Publication of Social Science Staff Members

Remedial course in English and other subjects

International students from different countries

**History Department-** History Study Circle, Modi Script Course, Kaun Banega? History Scholar!!, History Museum, Historical Documentary film Club, Celebration of Birth anniversary of National Personalities, Commemoration of Historians, Study Tours

**Geography Department-** Separate Library, Trekking, Cycling & Movie Club, Sky Watch, Study Tours, Guest Lecture, Field Visits, Seminars & Workshop Related to Subject, Geo Carnival

**English Department-** Quest : Curiosity & Creativity Forum, Spoken English Course with Well Equipped 'Language Laboratory' facility, Film shows (syllabus related), Projects and State Level Essay Competition, What's the Good Word?, learning by sharing scheme, Literary Carnival & career related Workshops

**Psychology Department-** Disha Psychology Study Circle and Kaleidoscope- Student Centric Magazine, Group discussion, Workshop, Counseling cell, Mindscape - the Research Compendium, Mastermind- the psychology Quiz, Koshish - structured Internship program, Psy World – Psychology Fair, Student Participation in National & International Conference, Skill Development Course Conducted annually, Umeed College community Mental Health

**Sociology Department-** Society- Sociology Association, Wall papers, educational visits, lecture series, Health Awareness program, workshops, seminars, Street play, Gender Sensitization program, Tribal Handicraft Exhibition cum Sale, Collaborative Programmes with SPPU & well known NGOs, Engagement : Dialogical platform for Students & Film Screening

**Economics Department-** Guest Lectures, Students' Economics Conference, Educational Visit, Poster Completion , Scrap Book Competition, Quiz Competition

### **Department of Political Science**

Conduct various activities such as Guest Lectures, Field Visits, Career Guidance Programmes, Educational Visits, Jidnyasa, Sanvidhan Din Programme , Voters Day Etc.

### **Department of Languages**

Various Competitions are conducted and special guidance is given for all three Languages English, Marathi & Hindi. The Students are encouraged to participate in activities such as wall magazines, presentation, and survey, Quiz, Enrichment of vocabulary and communication skills.

## UG Courses: Arts Faculty

**Name of the Course : B.A**

**Eligibility : HSC (10+2) or its equivalent with English Subject**

### Program Specific Outcome. (PSO) –UG

- Nurturing responsible citizens through socio-economic, linguistic and cultural engagement
- Identify and appreciate the real-world perspectives of knowledge through global understanding of texts and theories
- Promote professionalism and cultivate ethical behaviour
- Provide a plethora of avenues in career including higher studies, research and employment
- Ethics, Values and Integrity inculcated through the curricula which will be applicable in everyday life both profession and personal
- Develop an understanding about the need and role as citizens and taking up individual responsibilities

**Course Structure :**

**FYBA Marathi Medium (Total Paper 6)**

**Select any one from Group A & B**

|    | <b>Group A</b>     | <b>Group B</b>               |
|----|--------------------|------------------------------|
| 1. | Compulsory English | 1. Compulsory English        |
| 2. | Marathi            | 2. Hindi /Additional English |
| 3. | Sociology          | 3. History                   |
| 4. | Geography          | 4. Economics                 |
| 5. | Political science  | 5. Political science         |
| 6. | Psychology         | 6. Psychology                |

**FYBA English Medium (Total Paper 6)**

| <b>Compulsory Subjects:</b> |                              |
|-----------------------------|------------------------------|
| 1. English                  | 2. Hindi /Additional English |
| 3. Psychology               | 4. Political Science         |
| 5. Economics or History     | 6. Sociology or Geography    |

**SYBA Marathi Medium Group A (Total 6+ EVS Course)(Select any One)**

| <b>Sociology Special Group<br/>Marathi Medium</b> |                              |
|---|------------------------------|
| 1   | Compl .English               |
| 2   | Sociology Spl-I              |
| 3   | Sociology Spl-II             |
| 4   | Sociology General            |
| 5   | Geography / Marathi          |
| 6   | Psychology/Political Science |
| 7   | EVS                          |

| <b>Geography Special Group<br/>Marathi Medium</b> |                              |
|---|------------------------------|
| 1   | Compl .English               |
| 2   | Geography Spl-I              |
| 3   | Geography Spl-II             |
| 4   | Geography General            |
| 5   | Sociology / Marathi          |
| 6   | Psychology/Political Science |
| 7   | EVS                          |

**SYBA Marathi Medium Group B (Total Paper 6+ EVS Course) (Select any one)**

| <b>History Special Group<br/>Marathi Medium</b> |                               |
|---|-------------------------------|
| 1   | Compl .English                |
| 2   | History Spl-I                 |
| 3   | History Spl-II                |
| 4   | History General               |
| 5   | Add. English/ Hindi/Economics |
| 6   | Psychology/Political Science  |
| 7   | EVS                           |

| <b>Economics Special Group<br/>Marathi Medium</b> |                              |
|---|------------------------------|
| 1   | Compl .English               |
| 2   | Economics Spl-I              |
| 3   | Economics Spl-II             |
| 4   | Economics General            |
| 5   | Add. English/ Hindi /History |
| 6   | Psychology/Political Science |
| 7   | EVS                          |

**SYBA English Medium (Total Paper 6+ EVS Course)(Select any one out of Six)**

| <b>I) Economics Special Group<br/>English Medium</b> |  |
|--|--|
| 1  | Compl .English                         |
| 2  | Economics Spl-I                        |
| 3  | Economics Spl-II                       |
| 4  | Economics General                      |
| 5  | Sociology /Geography/Political Science |
| 6  | Psychology/History /Add. English       |
| 7  | EVS                                    |

| <b>II) History Special Group<br/>English Medium</b> |  |
|---|--|
| 1   | Compl .English                         |
| 2   | History Spl-I                          |
| 3   | History Spl-II                         |
| 4   | History General                        |
| 5   | Sociology /Geography/Political Science |
| 6   | Psychology/Economics /Add. English     |
| 7   | EVS                                    |

| <b>III) Geography Special Group<br/>English Medium</b> |  |
|--|--|
| 1  | Compl .English                         |
| 2  | Geography Spl-I                        |
| 3  | Geography Spl-II                       |
| 4  | Geography General                      |
| 5  | Economics/ History / Political Science |
| 6  | Add. English / Psychology / Sociology  |
| 7  | EVS                                    |

| <b>1V) Sociology Special Group<br/>English Medium</b> |                                       |
|---|---------------------------------------|
| 1   | Compl .English                        |
| 2   | Sociology Spl-I                       |
| 3   | Sociology Spl-II                      |
| 4   | Sociology Gen                         |
| 5   | Economics/ History /Political Science |
| 6   | Geography/ Psychology / Add. English  |
| 7   | EVS                                   |

| <b>V) English Special Group</b> |                                     |
|---------------------------------|-------------------------------------|
| 1                               | Compl .English                      |
| 2                               | English Spl-I                       |
| 3                               | English Spl-II                      |
| 4                               | English General                     |
| 5                               | Political Science/History/Economics |
| 6                               | Sociology/ Psychology / Geography   |
| 7                               | EVS                                 |

| <b>VI) Psychology Special Group</b> |                                     |
|-------------------------------------|-------------------------------------|
| 1                                   | Compl .English                      |
| 2                                   | Psychology Spl. I                   |
| 3                                   | Psychology Spl-II                   |
| 4                                   | Psychology General                  |
| 5                                   | Political Science/History/Economics |
| 6                                   | Sociology/ Add. English / Geography |
| 7                                   | EVS                                 |

**Environmental Awareness Course is compulsory for SYBA (Second Term)**

**Special English and Psychology option is not available for Marathi Medium students**

**T.Y.B.A. (Marathi and English Medium) Subjects are same as those selected in S. Y.B.A.**





## PG Courses: Arts Faculty

### I) M.A. Economics

**Eligibility:** B.A. (Economics) or Bachelor's degree in any faculty

**Course structure (Credit System) Duration:** 2 Years

### Economics Department : PG : Program Specific Outcome. (PSO) –PG

| Sr. No. | Objectives/ Outcomes                                   |
|---------|--|
| 1       | Helps students to get in-depth knowledge of Economics. |
| 2       | Important for further studies and research.            |
| 3       | To Study the relationship among broad aggregates.      |
| 4       | To apply economic reasoning to problems of the economy |
| 5       | Specific options of career in Economics.               |

#### ➤ Part One

| Paper No.            | Title of the Paper        | Paper No.            | Title of the Paper         |
|----------------------|---------------------------|----------------------|----------------------------|
| <b>Semester I</b>    |                           | <b>Semester II</b>   |                            |
| <b>Core Subjects</b> |                           | <b>Core Subjects</b> |                            |
| EC-1001              | Micro Economic Analysis I | EC-2001              | Micro Economic Analysis II |
| EC-1002              | Public Economics I        | EC-2002              | Public Economics II        |
| EC-1003              | International Trade       | EC-2003              | International Finance      |
| EC-1004              | Indian Economic Policy    | EC-2004              | Agricultural Economics     |

#### ➤ Part Two

| Paper No.            | Title of the Paper     | Paper No.            | Title of the Paper      |
|----------------------|------------------------|----------------------|-------------------------|
| <b>Semester III</b>  |                        | <b>Semester IV</b>   |                         |
| <b>Core Subjects</b> |                        | <b>Core Subjects</b> |                         |
| EC-3001              | Macro Economics I      | EC-4001              | Macro Economics II      |
| EC-3002              | Growth & Development I | EC-4002              | Growth & Development II |
| EC-3003              | Modern Banking         | EC-4003              | Research Methodology    |
| EC-3004              | Demography             | EC-4004              | Rural Development       |

## II) M.A. History

**Eligibility:** B.A. (History) or Bachelor's degree in any faculty

**Course structure (Credit System)**

**Duration:** 2 Years

### History Department PG:Program Specific Outcome. (PSO) -PG

| Sr. No. | Objectives/ Outcomes  |
|---------|---|
| 1       | Cultivate Research Qualities among the Students               |
| 2       | In depth Study of the Subject from macro to micro level       |
| 3       | Inculcate Socio- cultural and Moral Values among the Students |
| 4       | Trace out the roots of Contemporary Society from the Past     |
| 5       | Develop over all personality of the students                  |

#### ➤ Part One

| Sem-I |  | Sem-II |   |
|-------|--|--------|---|
| No.   | Title of the Paper   | No.    | Title of the Paper                                  |
| 1.    | History & its Theory   | 1.     | History & its Practice                              |
| 2.    | Evolution of Ideas & Institutions in Ancient India             | 2.     | Evolution of Ideas & Institutions in Medieval India |
| 3.    | Maratha Polity   | 3.     | Socio-Economic History of Marathas                  |
| 4.    | Opt. paper- Social Background of Dalit Movement in Maharashtra | 4.     | Opt. paper- Nature of Dalit Movement in Maharashtra |

#### ➤ Part Two

| Sem-III |  | Sem-IV |   |
|---------|--|--------|---|
| No.     | Title of the Paper                               | No.    | Title of the Paper                                |
| 1.      | Ancient and Medieval Civilization of the World   | 1.     | History of Modern India (1857-1971)               |
| 2.      | Debates in Indian History                        | 2.     | Intellectual History of Modern West               |
| 3.      | Economic History of Modern India                 | 3.     | World after World War II                          |
| 4.      | Opt. paper- 19 <sup>th</sup> Century Maharashtra | 4.     | Opt. paper - 20 <sup>th</sup> Century Maharashtra |

## III) M.A. Sociology

**Eligibility:** B.A. (Sociology) or Bachelor's degree in any faculty

**Course structure (Credit System)**

**Duration:** 2 Years

## Sociology Department PG:Program Specific Outcome. (PSO) -PG

| Sr. No. | Objectives/ Outcomes  |
|---------|---|
| 1       | Explain and apply the major theoretical perspectives in sociology They will enable to see the world from others' perspective also |
| 2       | Design and evaluate sociological research with Interdisciplinary Manner.  |
| 3       | To understand the central concepts developed by the theorists to analyse the social world   |
| 4       | To understand the application of the scientific method to understand 'social realities 'with critical approach                    |
| 5       | They can Understand their Responsibility towards civic, Policy Engagement and Sustainability                                      |

### ➤ Part One

| Sem-I           |                                  | Sem-II          |                                       |
|-----------------|----------------------------------|-----------------|---------------------------------------|
| No.             | Compulsory papers                | No.             | Compulsory papers                     |
| 1.              | Classical Sociological Tradition | 1.              | Introduction to Sociological Theories |
| 2.              | Sociology of India               | 2.              | Methodology of Social Research        |
| Optional Papers |                                  | Optional Papers |                                       |
| 3.              | Agrarian Society                 | 3.              | Sociology of Education                |
| 4.              | Social Movements                 | 4.              | Health & Society                      |

### ➤ Part Two

| Sem-I           |                                | Sem-II          |  |
|-----------------|--------------------------------|-----------------|--|
| No.             | Compulsory papers              | No.             | Compulsory papers                        |
| 1.              | Application of Research Skills | 1.              | Contemporary Sociological Theories       |
| 2.              | Sociology of Development       | 2.              | Sociology of Globalization               |
| Optional Papers |                                | Optional Papers |  |
| 3.              | Sociology of Gender            | 3.              | Sociology of Social Work or Dissertation |
| 4.              | Environment & Sociology        | 4.              | Sociology of Crime                       |

## IV) M.A. Psychology

**Eligibility:** B.A. (Psychology)

**Course structure (Credit System)**

**Duration:** 2 Years

### ➤ Part One

| Sem-I  |                               | Sem-II |                                     |
|--------|-------------------------------|--------|-------------------------------------|
| EP 101 | Cognitive Processes           | EP 201 | Learning and Memory                 |
| EP 102 | Psychological Testing: Theory | EP 202 | Psychological Testing: Applications |
| EP 103 | Statistical Methods           | EP 203 | Research Methodology                |
| EP 104 | Psychology Practical: Tests   | EP 204 | Psychology Practical: Experiments   |

# Commerce Faculty

## Profile

- Courses offered under commerce faculty are B.Com, M.Com & B.B.A (CA)
- Qualified and experienced teaching faculty.
- Well-furnished and Well-equipped infrastructure.
- Visit and guidance of industry expert to the students from time to time.
- Medium of instruction is English and a special division for Marathi medium.
- Faculty has linkages with organization such as MCCIA, MCED, MITCON and Agriculture College of Banking (RBI)
- Special subjects available at B.Com level are Costing, Marketing, Banking & Finance and Business Entrepreneurship. At M.Com level specialization available in Accounting & Business Administration.
- Skill based certificate courses like Tally ERP 9, Entrepreneurship Development Programme and Transformation Courses are available, Campus Placements are available with Companies like TCS, WNS Global Services, and Bajaj Finance etc.

## Activities

Commerce education aims at providing knowledge of theory as well as practice. To instill employability and leadership skills amongst students several Co-curricular & Extra Curricular activities are conducted round the year which has participation of maximum number of Students. Some activities are :

- Banking Club, Marketing Carnival, Entrepreneurship Development Cell, MAGNIT (BBA(CA)), Research Methodology Workshop (M.Com)
- In-house magazine publications like 'Commerce Horizon'
- On the Job training in Vidya Sahakari Bank
- Other activities - Industrial visits, Guest lectures, Workshop, Conferences, Photography competition, Debate Competition, Business Quiz Competition, Essay Competition etc.

## U.G. Courses - Commerce Faculty

**Name of the course: B.Com**

**Eligibility:** H.S.C. (10+2) or its equivalent with English Subject

### Faculty of Commerce (B.Com & M.Com)

#### Program Specific Outcome. (PSO)-UG

| Sr. No. | Objectives / Outcomes   |
|---------|---|
| 1       | To impart the knowledge and practical training in the areas of commerce and management. |
| 2       | To inculcate a sense of social responsibility.  |
| 3       | To develop various skills to make them employable                                       |
| 4       | To make the students aware of various career opportunities.                             |
| 5       | To develop keen interest in higher studies.   |



➤ **F. Y. B. Com**

**Duration: 3 years**

**Course Structure: Annual**

| <b>Compulsory Subjects</b> |   | <b>Optional Subjects</b> |  |
|----------------------------|---|--------------------------|--|
| <b>Paper No.</b>           | <b>Title of the Paper</b>                 | <b>Paper No.</b>         | <b>Title of the Paper</b>  |
| 101                        | Compulsory English                        | 105(a)<br>105(b)         | Organizational Skill Development / Banking & Finance               |
| 102                        | Financial Accounting (Theory & Practical) | 106 (c)<br>106(e)        | Marketing & Salesmanship / Business Environment & Entrepreneurship |
| 103                        | Business Economics I (Micro)              | 107                      | Additional English / Marathi / Hindi (Theory & Practical)          |
| 104(A)                     | Mathematics & Statistics                  |                          |  |

**Student can opt any one of following group combinations available for optional subjects 105(a),105(b),106(c)and 106(e) at F.Y.B.Com. level**

| <b>Div</b> | <b>Group Combinations</b>  | <b>Medium</b>      |
|------------|--|--------------------|
| A          | 105(b) Banking & Finance, 106(c) Marketing & Salesmanship                                | English            |
| B          | 105(a) Organization Skill Development<br>106(c) Marketing & Salesmanship                 | English<br>English |
| C          | 105(b) Banking & Finance, 106(d) Business Environment & Entrepreneurship                 | Marathi            |
| D          | 105(a) Organization Skill Development<br>106 (d) Business Environment & Entrepreneurship | Marathi            |

**S.Y.B.Com**

| <b>Compulsory Subjects</b> |   | <b>Optional Subjects (any one) Theory &amp; Practical</b> |                                       |
|----------------------------|---|---|---------------------------------------|
| <b>Paper No.</b>           | <b>Title of the Paper</b>                     | <b>Paper No.</b>  | <b>Title of the Paper</b>             |
| 201                        | Business Communication (Theory and Practical) | 206 (b)   | Banking & Finance- I                  |
| 202                        | Corporate Accounting                          | 206 (e)   | Cost & Work Accounting- I             |
| 203                        | Business Economics II (Macro)                 | 206(g)  | Business Entrepreneurship (Marathi)-I |
| 204                        | Business Management                           | 206(h)  | Marketing Management- I               |
| 205                        | Elements of Company Law                       |   |                                       |

**Note: Admission to Cost & Work Accounting-I:206 (e)subject is given on merit basis**

- 1) Optional Subjects taken in S. Y. B.Com can't be changed in T.Y.B.Com
- 2) Environmental Awareness course is compulsory for S.Y.B.Com (Second Term)

**T.Y. B.com**

| <b>Compulsory Subjects</b> |   | <b>Optional Subjects (any one) Theory &amp; Practical</b> |  |
|----------------------------|---|---|--|
| <b>Paper No.</b>           | <b>Title of the Paper</b>                     | <b>Paper No.</b>  | <b>Title of the Paper</b>  |
| 301                        | Business Regulatory Framework                 | 305 (b)<br>306 (b)  | Banking & Finance – II<br>Banking & Finance - III                                  |
| 302                        | Advanced Accountancy                          | 305 (e)<br>306 (e)  | Cost & Work Accounting- II<br>Cost & Work Accounting- III                          |
| 303 A                      | Indian & Global Economic Development          | 305 (g)<br>306 (g)  | Business Entrepreneurship - II (Marathi)<br>Business Entrepreneurship–III(Marathi) |
| 304                        | Auditing & Taxation<br>(Theory and Practical) | 305 (h)<br>306 (h)  | Marketing Management – II<br>Marketing Management – III                            |



## P.G. Courses : Commerce Faculty

Name of the course: M.Com

Duration: 2 years (Four Semesters)

Eligibility: Bachelor's degree of S.P.P.U. or any other recognized university

### Program Specific Outcome

| Sr. No. | Objectives/ Outcomes                                    |
|---------|---|
| 1       | To motivate the students for further education          |
| 2       | To inculcate a sense of social accountability.          |
| 3       | To make them professionally more capable and employable |
| 4       | To promote them for research                            |
| 5       | To impart various life and professional skills          |

**Admission:** Admission to the M.COM.-I and II are given in accordance with the rules prescribed by the S.P.P.U from time to time.

**Course Structure (Choice Based Credit System)**

#### ➤ PART ONE

**Special Subjects - GROUP 'A': Advanced Accounting Taxation and Auditing, GROUP 'F' : Business Administration**

| Semester-I |                                     | Semester-II |                                       |
|------------|-------------------------------------|-------------|---------------------------------------|
| Paper No.  | Title of the Paper                  | Paper No.   | Title of the Paper                    |
| 101        | Management Accounting               | 201         | Financial analysis and control        |
| 102        | Strategic Management                | 202         | Industrial Economics                  |
|            | <b>Special Paper - I</b>            |             | <b>Special Paper - III</b>            |
|            | (Group A-Paper I/Group F-Paper I)   |             | (Group A-Paper III/Group F-Paper III) |
|            | <b>Special Paper - II</b>           |             | <b>Special Paper - IV</b>             |
|            | (Group A-Paper II/Group F-Paper II) |             | (Group A-Paper IV/Group F-Paper IV)   |

#### ➤ PART TWO

| Semester-III |                                      | Semester-IV |   |
|--------------|--------------------------------------|-------------|---|
| Paper No.    | Title of the Paper                   | Paper No.   | Title of the Paper                      |
| 301          | Business Finance                     | 401         | Capital Market and Financial Services   |
| 302          | Research Methodology for Business    | 402         | Industrial Economic Environment         |
|              | <b>Special Paper V</b>               |             | <b>Special Paper - VII</b>              |
|              | (Group A-Paper V/Group F-Paper V)    |             | (Group A-Paper VII/Group F-Paper VII)   |
|              | <b>Special Paper - VI</b>            |             | <b>Special Paper - VIII</b>             |
|              | (Group A-Paper VI /Group F-Paper VI) |             | (Group A-Paper VIII/Group F-Paper VIII) |

| GROUP A : Subjects |   | GROUP F : Subjects |  |
|--------------------|---|--------------------|--|
| Paper No.          | Title of the Paper                              | Paper No.          | Title of the Paper                                     |
| 103                | PAPER I - Advanced Accounting                   | 113                | PAPER I - Production Operations Mgt                    |
| 104                | PAPER II - Income Tax                           | 114                | PAPER II - Financial Management                        |
| 203                | PAPER III - Specialized Areas in Accounting     | 213                | PAPER III - Bus. Ethics and Professional Values Mgt.   |
| 204                | PAPER IV - Business Tax Assessment and Planning | 214                | PAPER IV - Elements of knowledge Mgt.                  |
| 303                | PAPER V - Advanced Auditing                     | 313                | PAPER V - Human Resource Management                    |
| 304                | PAPER VI - Specialized Auditing                 | 314                | PAPER VI - Organizational Behavior                     |
| 403                | PAPER VII - Recent Advances in Accounting       | 413                | PAPER VII – Recent Advances in Business Administration |
| 404                | Paper VIII - Project work                       | 414                | PAPER VIII Project work                                |

**NOTE :** A STUDENT CAN SECURE ADMISSION TO SECOND YEAR SEMESTER III ONLY IF HE OR SHE SCORES AT LEAST 16 CREDITS IN FIRST YEAR DURING SEMESTER I & II

**PAPER VIII** - Project work is compulsory for all the students of Group A and F. Project viva-voce will be conducted at the end of semester IV, as per the schedule declared by Savitribai Phule Pune University.

## B.B.A ( CA ) (Bachelor of Business Administration in Computer Applications)

**Eligibility:** Higher Secondary School Certificate (10+2) or its (First Year) equivalent Examination with 40% marks from any stream. (35% for Reserved category and 40% for Open category candidates per Maharashtra State Government Rules) and English as one of the Subjects.

### Bachelor Of Business Administration In Computer Application BBA(CA)

#### Program Specific Outcome. (PSO)-UG

| Sr. No. | Objectives / Outcomes  |
|---------|--|
| 1       | To impart professional training of computer application for any stream             |
| 2       | To provide sound academic base to make advanced career in Computer Application     |
| 3       | To provide conceptual knowledge of Practical Business Application                  |
| 4       | To provide basic practical knowledge of Computer Tools                             |
| 5       | To develop Business Communication skills & provide personality developments skills |

**Selection Criteria:** Every eligible candidate has to pass Entrance test conducted by the College.

**Course Structure**

**Duration: 3 Years**



➤ **PART ONE**

| <b>Semester - I</b> |   | <b>Semester - II</b> |  |
|---------------------|---|----------------------|--|
| <b>Paper No.</b>    | <b>Name of the subject</b>                              | <b>Paper No.</b>     | <b>Name of the subject</b>                               |
| 101                 | Modern Operating Environment & MS Office                | 201                  | Procedure Oriented Programming using C                   |
| 102                 | Financial Accounting                                    | 202                  | Data Base Management System                              |
| 103                 | Programming Principal & Algorithms                      | 203                  | Organizational Behavior                                  |
| 104                 | Business Communication                                  | 204                  | Computer Applications in Statistics                      |
| 105                 | Principles of Management                                | 205                  | E-Commerce Concepts                                      |
| 106                 | Laboratory Course - 1<br>(Based on Paper No. 101 & 102) | 206                  | Laboratory Course - II<br>(Based on Paper No. 201 & 202) |

➤ **PART TWO**

| <b>Semester - III</b> |   | <b>Semester - IV</b> |                                |
|-----------------------|---|----------------------|--------------------------------|
| <b>Paper No.</b>      | <b>Name of the subject</b>                                  | <b>Paper No.</b>     | <b>Name of the subject</b>     |
| 301                   | Relational Database Management Systems                      | 401                  | OOP's using C++                |
|                       |   | 402                  | Programming in Visual Basic    |
| 302                   | Data Structures using C                                     | 403                  | Computer Networking            |
| 303                   | Operating System Concepts                                   | 404                  | Enterprise Resource Planning   |
| 304                   | Business Mathematics  | 405                  | Human Resource Management      |
| 305                   | Software Engineering  | 406                  | Laboratory Course - IV         |
| 306                   | Laboratory Course - III<br>(Based on Paper No. 301 and 302) |                      | (Based on Paper No. 401 & 402) |

**NOTE :** Environmental Awareness Course is compulsory for S. Y. B.B.A (CA) Sexonf Term

➤ **PART THREE**

| <b>Semester -V</b> |  | <b>Semester -VI</b> |  |
|--------------------|--|---------------------|--|
| <b>Paper No.</b>   | <b>Title of the Paper</b>                          | <b>Paper No.</b>    | <b>Title of the Paper</b>                            |
| 501                | Java Programming                                   | 601                 | Advanced Web Technologies                            |
| 502                | Web Technologies                                   | 602                 | Advanced Java  |
| 503                | Dot Net Programming                                | 603                 | Recent Trends in IT                                  |
| 504                | Object Oriented Software Engg.                     | 604                 | Software Testing                                     |
| 505                | Software Project I [Based on C++ / VB Technology]  | 605                 | Software Project II [JAVA / Dot Net Technology ]     |
| 506                | Laboratory Course V [Based on Paper No. 501 & 502] | 606                 | Laboratory Course VI [Based on Paper No. 601 & 602 ] |

## Science Faculty

The College has 12 well established departments under Science faculty. These are Physics, Chemistry, Mathematics, Statistics, Electronics, Botany, Zoology, Microbiology, Biotechnology, Computer Science, B.C.A. and B. Voc.

- Recognized M.Phil and Ph.D. research centres in Chemistry, Zoology, Microbiology and Biotechnology.
- Qualified and experienced faculty members.
- Well furnished, well equipped laboratories with internet access in each department for teachers as well as for students.
- Facilities are provided for UG and PG students and teachers for doing research projects.
- Funded research projects from apex funding agencies.
- Students are encouraged to participate in workshops and conferences.
- Study tours/industrial visits/institutional visits/field visits/guest lectures and career guidance lectures are arranged every year by various departments.
- A separate Placement Cell facility for PG students from Chemistry, Microbiology (Udaan), Biotechnology and Computer Science.
- Science faculty is supported by DBT STAR Status for UG and DST FIST Scheme for PG courses from Government of India.

### Activities for students

- **Anubhuti** Annual Science exhibition conducted by Science Association.
- **Interaction** an Intercollegiate competition and **Tech Fest** an interclass competition organized by Computer Science department.
- **Mathematical Hockey** competition conducted by mathematics Department to improve the computational skills of the students.
- **Mathematics Club** is a platform to showcase students' creativity. It includes display of mathematics related information like articles from papers, students' articles, question of the week, etc.
- **Pramey** Departmental publication of Mathematics Department managed by students.
- **Mathematics Quiz** for B.Sc. students.
- **Vedic Mathematics and C-programming** certificate courses conducted for skill development of students.
- **Physiquia** a talent search competition including quiz, puzzle solving, cartoon drawing and Ludo game based on Physics concepts organized by Physics department.
- **Stats Quiz** for students organized by PUSA (Savitribai Phule Pune University Statistics Association). Hands-on training of different softwares like MS EXCEL, R, SPSS is arranged for students by Statistics department.
- **Chemiad** an intercollegiate competition organized by Department of Chemistry, Savitribai Phule Pune University, conducted by Chemistry department. The department has collaboration with SPPU/IISER for skill based courses. NET, SET guidance is provided by the department through expert academicians. Guest lectures from industrial experts are also arranged by the department.
- **e-waste awareness and collection drive** is initiated by electronics department. To improve technical skills and basic knowledge in the subject, competitions like Quiz (Snake and Ladder game), one minute game, assemble it game, written test, etc. is conducted by electronics department, in association with SPEED, SPPU.
- **Scientific Rangoli and Salad decoration competition** is organized by Microbiology department based on subject theme.
- **Biozone** an annual technical programme including guest lecture series of experts from Industry and academics is organized by Biotechnology department for providing hands on training to students.
- **Biodiversity Trail** is organized by Botany department to understand the biodiversity of the surroundings.
- **Zoocraft** an intercollegiate competition on classical and applied Zoology is organized by Zoology department.

# U.G. Courses - Science Faculty

## I) B.Sc. (General)

**Eligibility \*:** H.S.C. (10+2 Science) or its equivalent with English subject

### Botany -Program Specific Outcome. (PSO)-UG

| Sr. No. | Objectives/ Outcomes  |
|---------|---|
| 1       | To develop the aptitude towards plant science among the students  |
| 2       | Student get knowledge about various basic skills related to field as well as in the laboratory based studies in plant science   |
| 3       | To explore the plant diversity and create awareness about the biodiversity conservation   |
| 4       | Student will learn the technique to identify the plant sample   |
| 5       | Student will understand the application of plant science in allied branches   |
| 6       | Student also get knowledge how plant research has diverse applications in providing staple foods, materials such as timber, oil, rubber, fibre and drugs, in modern horticulture, agriculture and forestry, plant propagation, breeding and genetic modification, in the synthesis of chemicals and raw materials for construction and energy production, etc |

### Chemistry - Program Specific Outcome. (PSO)-UG

| Sr. No. | Objectives/ Outcomes   |
|---------|--|
| 1       | It is expected to inspire and boost interest of the students towards chemistry as the main subject. Students are expected to understand the fundamentals, principles, mathematical concepts and analytical techniques in Chemistry.  |
| 2       | Students are expected to know the importance of chemistry in everyday life. They will be able to relate physical and chemical phenomena around us with chemical point of view.   |
| 3       | As the course gradually deepens the subject knowledge from first year to third year, it makes students well versed with physical chemistry, quantum mechanics, co-ordination chemistry and its applications in various fields.   |
| 4       | It would help students to learn various aspects of organic chemistry and its usefulness in natural products isolations, pharmaceuticals, dyes, textiles, polymers, petroleum products, forensic etc.   |
| 5       | The environmental chemistry course would create awareness and sense of responsibilities. The practical courses are in relevance to the theory courses to improve the understanding of the concepts. It would help in development of practical skills of the students. Students would be able to design, analyse and interpret data theoretically as well as practically. |
| 6       | The practical courses would help them to develop good laboratory practices, understand standard operating procedures, preparation of various solutions, identification and removal of impurities, use of analytical instruments, syntheses of complexes and small organic molecules etc.   |
| 7       | The students will be thus introduced to concepts, applications and recent developments to inculcate research aptitude. It would enable to develop interdisciplinary approach of the subject for students.  |
| 8       | It will help students to build up a progressive successful career and become responsible citizens  |

### Electronics -Program Specific Outcome. (PSO)-UG

| Sr. No. | Objectives/ Outcomes  |
|---------|---|
| 1       | To provide in depth knowledge of scientific and technological aspects of electronics.               |
| 2       | To familiarize with current and recent technological developments.                                  |
| 3       | To enrich knowledge through programme such as industrial visits, hobby projects, market survey etc. |
| 4       | To train students in skills required for electronics industry and market.                           |
| 5.      | To create foundation for research and development in Electronics                                    |
| 6.      | To develop analytical abilities towards real world problem  |
| 7.      | To help students build-up a progressive and successful career in Electronics                        |

### Mathematics - Program Specific Outcome. (PSO)-UG

| Sr. No. | Objectives/ Outcomes   |
|---------|--|
| 1       | Students should be able to model, solve and interpret the practical real life problem.                         |
| 2       | Problem solving skills, creative talent to convert the verbal information into mathematical form are enhanced. |
| 3       | Interdisciplinary approach is developed.   |
| 4       | Theoretical concepts are strengthened by solving maximum no. of problems.                                      |
| 5       | To enhance abstract thinking of students.  |

### Statistics - Program Specific Outcome. (PSO)-UG

| Sr. No. | Objectives / Outcomes   |
|---------|---|
| 1       | The subject STATISTICS is common for all faculties because in everyday life we are required to use the concepts of STATISTICS in many ways.                       |
| 2       | In every field even fast growing fields like COMPUTER and BIOTECHNOLOGY we do require the basic concepts or knowledge of STATISTICS for analysis purpose.         |
| 3       | So the aim is to make users of STATISTICS the importance of having the thorough knowledge of Basic Concepts of Statistics, and to avoid the misuse of STATISTICS. |

### Microbiology : Program Specific Outcome. (PSO)-UG

| Sr. No. | Objectives/ Outcomes  |
|---------|---|
| 1       | To enrich students' knowledge and train them in various branches of Microbiology such as medical microbiology, genetics and molecular biology, biochemistry, immunology, fermentation technology; air, water, food and soil microbiology. |
| 2       | To introduce the concepts of application and research in Microbiology   |



|    |   |
|----|---|
| 3  | To understand basic microbiological concepts and perform following procedures as per laboratory standards |
| a) | Aseptic techniques  |
| b) | Preparation of reagents and nutrient media  |
| c) | Isolation, characterization and maintenance of bacterial cultures   |
| d) | Production of biofertilizers  |
| e) | Microbial analysis/ Quality Control testing of samples such as soil, water, milk and injectibles.         |
| f) | Biochemical and molecular biology techniques, enzyme assays, chromatography, electrophoresis.             |
| g) | Antibiotic sensitivity testing and haematological techniques.   |
| h) | Basic computer literacy   |
| 4  | To inculcate sense of scientific responsibilities and social and environmental awareness                  |
| 5  | To help students build-up a progressive and successful career   |

### Physics : Program Specific Outcome. (PSO)-UG

| Sr. No. | Objectives / Outcomes  |
|---------|--|
| 1       | To improve the basic concepts of Physics by describing its application in day today life - Some Students have at least started thinking of involvement of Physics in the situations occurring in nature. It was noticed during the scientific discussions with the students. |
| 2       | To cultivate research aptitude through interdisciplinary projects- Student Research Projects are getting Converted into Research Papers.   |
| 3       | To enhance the experimental skills through models and mini projects - Student's Demonstrated innovative experiments and models to the school students, Outreach programme (school activity) organized by department for school students in different schools.                |
| 4       | To encourage students -centric, extra-curricular and co-curricular activities. These help the students in developing creative minds, leadership quality, ability to work in a group /with peers and also enhances their interest in the subject.                             |

### Zoology : Program Specific Outcome. (PSO)-UG

| Sr. No. | Objectives / Outcomes   |
|---------|---|
| 1       | To provide quality education in a branch of Biological sciences i.e Zoology with different specializations                              |
| 2       | To facilitate Higher education & research in zoology  |
| 3       | To Inculcate the spirit of resource conservation and love for nature  |
| 4       | To provide quality education offering skill based programs and motivate the students for self employment in applied branches of Zoology |
| 5       | Provide consultancy and organize extension activities   |

**Course Structure - Select any one group****Duration : 3 Years**

| <b>F.Y. B.Sc.</b> |  | <b>S.Y. B.Sc.</b>                             | <b>T.Y. B.Sc.</b>                                 |
|-------------------|--|---|---|
|                   | <b>Groups for Div A</b>                      | <b>Groups for Div A</b>                       |   |
| 1.                | Physics, Chemistry, Mathematics, Electronics | 1. Physics, Chemistry, Mathematics, English   | 1. Chemistry                                      |
| 2.                | Physics, Chemistry, Mathematics, Statistics  | 2. Physics, Mathematics, Statistics, English  | 2. Mathematics                                    |
|                   |  | 3. Chemistry, Mathematics, Statistics English | 3. Physics  |
|                   | <b>Groups for Div .B.</b>                    | <b>Groups for Div .B</b>                      | 4. Microbiology                                   |
| 3.                | Physics, Chemistry, Botany, Zoology          | 4. Botany, Microbiology Zoology, English      | 5. Zoology  |
| 4.                | Chemistry, Zoology Botany, Microbiology      | 5. Chemistry, Zoology Microbiology, English   | 6. Botany   |
|                   |  | 6. Chemistry, Zoology Botany, English         | (Each subject has 6 theory & 3 practical courses) |

**Note:**

- (i) **Students who have passed Diploma in Engineering/ Pharmacy are eligible for admission in S.Y.B.Sc. course.**
- (ii) Student has to select any one group at F.Y. and S. Y. level (At SY level, select appropriate group which includes subjects offered at F.Y.)
- (iii) Environmental Awareness Course is compulsory for S.Y.B.Sc. (second term)

**II) B.Sc. Computer Science with Mathematics**

Eligibility : H.S.C. (10 + 2) Science with Mathematics or its equivalent Examination.

| <b>Sr. No.</b> | <b>Objectives/ Outcomes</b>                                  |
|----------------|--|
| 1              | Prepare technically skilled personnel for jobs in IT sector. |
| 2              | Upgrading students with soft skills.                         |
| 3              | To give the core knowledge of computer science subject.      |
| 4              | To give awareness and applicability of Technical courses.    |
| 5              | Higher Education and Research                                |

## Course Structure

Duration : 3 Years

| F.Y.B.Sc (Computer Science)                            | S.Y.B.Sc (Computer Science)   | T.Y.B.Sc (Computer Science)   |
|--|---|---|
|  | <b>Semester I</b>   | <b>Semester I</b>   |
| CS-101 Problem Solving using Computers & C programming | CS-211 Data Structures using 'C'  | CS – 331 System Programming   |
| CS-102 File Organization & Fundamental of Database     | CS – 212 Relational Database Management System                                    | CS – 332 Theoretical Computer Science   |
| ELC-101 Principles of Analog Electronics               | EL – 211 Digital System Hardware  | CS – 333 Computer Networks - I  |
| ELC-102 Principles of Digital Electronics              | EL – 212 Analog Systems   | CS – 334 Internet Programming - I   |
| MTC-101 Discrete Mathematics                           | MT- 211 Applied Algebra   | CS – 335 Programming in Java - I  |
| MTC-102 Algebra and calculus                           | MT - 212 Numerical Analysis   | CS – 336 Object Oriented Software Engineering   |
| ST – 11421 Statistical Methods I                       | EN – 211 English  |   |
| ST -11422 Statistical Methods II                       | <b>Semester II</b>  | <b>Semester II</b>  |
|  | CS-221 Object Oriented Concepts using C++   | CS-341 Operating System   |
| CS-103 Computer Science Practical Paper I              | CS-222 Software Engineering   | CS-342 Compiler Construction  |
| CS-104 Computer Science Practical Paper II             | MT-221 Computational Geometry   | CS-343 Computer Networks II   |
| MTC 103 Mathematics Practical                          | MT-222 Operations Research  | CS-344 Internet Programming II  |
| ELC-103 Electronics Practical                          | EL-221 The 8051 Architecture, Interfacing & Programming                           | CS-345 Programming Java II  |
| ST-11423 Statistics Practical                          | EL-222 Communication Principles   | CS-346 Computer Graphics  |
|  | EN-221 Technical English  | CS-347: Practicals Based on CS-331 and CS341 – Sem I & Sem II                                   |
|  | CS – 223 Data Structure and C++ Practical   | CS-348: Practicals Based on CS-335 and CS-344 – Sem I & Sem II and Computer Graphics using Java |
|  | CS – 224 Database Practical and Mini Project using Software Engineering Technique | CS-349: Practicals Based on CS-334 and CS-344 – Sem I & Sem II and Project                      |
|  | MT-223: Practical Course in Mathematics   |   |
|  | EL-223: Practical Course in Electronics   |   |

\*Note- S. Y.B.Sc.: Environment Awareness Course is compulsory for second term.

### III ) B.Sc. (Biotechnology)

**Eligibility:** H.S.C. (10+2) Science or its equivalent Examination with English and Maths.

### Biotechnology : Program Specific Outcome. (PSO)

| Sr. No. | Objectives/ Outcomes   |
|---------|--|
| 1       | Students develop global competencies in the area of basic and applied biological sciences.   |
| 2       | Enhancing the subject knowledge of students by using traditional and modern ICT based teaching methods and learning by doing.  |
| 3       | To enrich students' knowledge and train them in various branches of Biotechnology such as genetics, molecular biology, biochemistry, immunology, fermentation technology, environmental biotechnology and tissue culture techniques. |
| 4       | To groom the students to meet futuristic challenges and national interests.  |
| 5       | To bestow the students with all the research skills required to work independently   |
| 6       | To develop scientific temperament and social responsibilities in the students.   |
| 7       | To inculcate nature care by imparting knowledge of advance modern techniques   |

#### Course Structure

**Duration: 3 years**

| F.Y.B.Sc.  | S.Y.B.Sc.   | T.Y.B.Sc.  |
|--|---|--|
|  | <b>Semester-I</b>                                 | <b>Semester-III</b>  |
| Bb-101 Fundamentals of Chemistry                         | Bb- 211 A Genetics & B Immunology                 | Bb- 331 Microbial Biotechnology  |
| Bb-102 Fundamentals of Physics                           | Bb- 212 Cell Biology                              | Bb-332 Plant and animal tissue culture   |
| Bb-103 Basics of plant and animal sciences               | Bb- 213 Environmental Biology and Biotechnology   | Bb- 333 Biodiversity & Systematics   |
| Bb- 104 Mathematics & Statistical Methods for Biologists | Bb- 214 Practicals in Environmental Biotechnology | Bb-334 Tissue culture techniques   |
| Bb- 105 Fundamentals of Biological Chemistry             | Bb- 215 Practicals in Cell Biology & Genetics     | Bb- 335a) Practicals in Microbial Biotechnology, b) Practicals in Field Studies and Report Writing |
| Bb- 106 Biophysics & Instrumentation                     | <b>Semester-II</b>                                | <b>Semester-IV</b>   |
| Bb- 107 Microbiology                                     | Bb- 221 Molecular biology                         | Bb-341 Large scale Manufacturing Process   |
| Bb- 108 Computers and Applications                       | Bb- 222 Animal and Plant development              | Bb- 342 Biochemical and biophysical techniques   |
| Bb- 109 Practicals in Chemistry & Biochemistry           | Bb- 223 Scientific writing and communication      | Bb- 343 Recombinant DNA Technology   |

|  |   |  |
|--|---|--|
| Bb - 110 Techniques in Physics, Biophysics & Instrumentation | Bb- 224 Metabolic Pathways                  | Bb -344 Techniques in Genetic Engineering                  |
| Bb- 111 Laboratory Exercises in Biosciences                  | Bb- 225 Practicals in Molecular Biology     | Bb- 345 a) Practicals of large scale manufacturing process |
| Bb- 112 Quantitative Methods in Biology                      | Bb- 226 Practicals in Developmental Biology | b) Practicals in Biochemical and Biophysical techniques    |

\*Note- S.Y.B.Sc.: Environment Awareness Course is compulsory for second term.

#### IV) B.Voc. Programme for Green house technology and Food processing Technology

**Duration: 3 years**

**Eligibility:** The eligibility conditions for admission to B.Voc. programme shall be HSC (10+2) or equivalent, in any stream. Criteria for selection: First come first basis

**Intake capacity: 50 for each course**

**Course Structure:** (Credit & Semester System)

#### B.Voc (Food Processing Technology )

#### Program Specific Outcome. (PSO)-UG

| Sr. No. | Objectives / Outcomes   |
|---------|---|
| 1       | To educate, train and produce modern professionals for food processing and allied industries.                       |
| 2       | To compete with multinationals and generate employments by developing trained professional at par global standards. |

**About the Course:** The University Grants Commission (UGC) has launched a scheme to uplift higher education through skill development courses offered as a part of college education that leads to Bachelor of Vocational (B.Voc.) Degree with multiple exits such as Diploma/Advanced Diploma under the National Skill Qualification framework (NSQF). The B.Voc. programme is focused on providing undergraduate studies which would also incorporate specific job roles and their NOSs (National Occupational Standards) along with broad based general education. This would enable the graduates completing B.Voc. to make a meaningful participation in accelerating India's economy by gaining appropriate employment, becoming entrepreneurs and creating appropriate knowledge.

This course will identify and fill the skill gaps.

The mandate of this program is to create a course with industry- academia collaboration that will produce skilled workforce satisfying specific needs of the industry. This course will offer multiple needs of the industry. The structure will allow students to have thorough theoretical knowledge coupled with rigorous hands-on training in both laboratory and industry.



### Levels of Awards

This course will offer multiple exits such as Diploma/ Advanced Diploma/ B. Voc. Degree each imparting students with employability & entrepreneurship in industry of chosen specialization which will be offered under the aegis of the University.

| Award            | Duration |
|------------------|----------|
| Diploma          | 1 Year   |
| Advanced Diploma | 2 Years  |
| B.Voc. Degree    | 3 Years  |

**Examination Pattern:** Each course will have:

50% of marks for internal (i.e in-semester) continuous assessment.

50% of marks for semester-end examination conducted by University of Pune.

### Course Structure: Food processing Technology

| Year-1 Semester-I |                                 | Year-1 Semester— II |   |
|-------------------|---------------------------------|---------------------|---|
|                   | Core Subjects                   |                     | Core Subjects                             |
| Paper No.         | Title of the Paper              | Paper No.           | Title of the Paper                        |
| BvFt 101          | Food Science                    | Bv Ft 201           | Food Biochemistry                         |
| BvFt 102          | Fundamental of Microbiology     | BvFt 202            | Food processing operation                 |
| BvFt 103          | Food chemistry and Nutrition    | BvFt 203            | Food safety & hygiene                     |
| BvFt 104          | Food processing and engineering | BvFt 204            | Food Microbiology                         |
| BvFt 105          | Value education                 | BvFt 205            | Communication skill and Technical English |

| Practical Subject |  | Practical Subjects |   |
|-------------------|--|--------------------|---|
| Paper No.         | Title of the Paper                           | Paper No.          | Title of the Paper                      |
| BvFt 106          | Practical on Food science                    | BvFt 206           | Practical for Food Biochemistry         |
| BvFt 107          | Practical of Microbiology                    | BvFt 207           | Practical for Food Processing Operation |
| BvFt 108          | Practical of Food Chemistry and Nutrition    | BvFt 208           | Practical on Food Safety & Hygiene      |
| BvFt 109          | Practical of Food Processing and Engineering | BvFt 209           | Practical on Food Microbiology          |
| BvFt 110          | Industry Training                            | BvFt 210           | Summer training                         |

| Year -2 Semester- III |                                    | Year -2 Semester- IV |  |
|-----------------------|------------------------------------|----------------------|--|
|                       | Core Subjects                      |                      | Core Subjects  |
| Paper No.             | Title of the Paper                 | Paper No.            | Title of the Paper                                   |
| BvFt 301              | Principles of Food preservation    | BvFt 401             | Processing of Spices & Flavoring Agent               |
| BvFt 302              | Food safety standards              | BvFt 402             | Dairy Technology                                     |
| BvFt 303              | Post - Harvest Management          | BvFt 403             | Food Packaging Technology<br>Fruits & Vegetables     |
| BvFt 304              | Food Analysis                      | BvFt 404             | Computer Application in Food Industry                |
| BvFt 305              | Applied Statistics                 |                      |  |
| Practical Subjects    |                                    |                      |  |
| Paper No.             | Title of the Paper                 | Paper No.            | Title of the Paper                                   |
| BvFt 306              | Practicals on Food preservation    | BvFt 405             | Practical of Processing of Spices & Flavoring Agents |
| BvFt 307              | Practical on Food safety standards | BvFt 406             | Practical on Dairy Technology                        |
| BvFt 308              | Practical Post-Harvest Management  | BvFt 407             | Practical on Food Packing of Fruits & Vegetables     |
| BvFt 309              | Practical of Food analysis         | BvFt 408             | Practical on Computer Application in Food Industry   |
| BvFt 310              | Industry Training                  | BvFt 409             | Industry Internship                                  |

Note : Environmental awareness course is compulsory for S.Y.B.Voc (Second Term)

| Year -3 Semester V |  | Year -3 Semester VI |                                       |
|--------------------|--|---------------------|---------------------------------------|
|                    | Core Subjects                              |                     | Core Subjects                         |
| Paper No.          | Title of the Paper                         | Paper No.           | Title of the Paper                    |
| BvFt 501           | Bakery & confectionary products technology | BvFt 601            | Food Storage & Warehouse              |
| BvFt 502           | Meat, Fish & Poultry Processing            | BvFt 602            | Quality control and Quality assurance |

|                  |  |                  |  |
|------------------|--|------------------|--|
| BvFt 503         | Product development & formulation              | BvFt 603         | Food laws & regulation                           |
| BvFt 504         | Waste management in food industry              | BvFt 604         | Entrepreneurship development                     |
| BvFt 505         | Management Principles and business Ethics      |                  |  |
|                  | <b>Practical Subjects</b>                      |                  | <b>Practical Subjects</b>                        |
| <b>Paper No.</b> | <b>Title of the Paper</b>                      | <b>Paper No.</b> | <b>Title of the Paper</b>                        |
| BvFt 506         | Practical of Bakery & confectionary Products   | BvFt 605         | Practical on Food storage & Warehouse Technology |
| BvFt 507         | Practical on Meat, Fish & Poultry Processing   | BvFt 606         | Practical on Quality Assurance & Certification   |
| BvFt 508         | Practical Product Development & Formulation    | BvFt 607         | Practical on Entrepreneurship                    |
| BvFt 509         | Practical on Waste management in Food Industry | BvFt 608         | Project  |
| BvFt 509         | Project & Industry Training                    |                  |  |

#### Course Structure: Green House Technology

| Year-1 Semester-I |   | Year-1 Semester-II |   |
|-------------------|---|--------------------|---|
| Core Subjects     |   | Core Subjects      |   |
| Paper No.         | Title of the Paper                              | Paper No.          | Title of the Paper                        |
| BvGt 101          | Plant Science                                   | BvGt 201           | Agricultural Biochemistry                 |
| BvGt 102          | Plant Propagation methods                       | BvGt 202           | Green house Plant physiology              |
| BvGt 103          | Greenhouse Machinery, Operation and Maintenance | BvGt 203           | Soil Science                              |
| BvGt 104          | Agricultural Microbiology                       | BvGt 204           | Cut Flower Production                     |
| BvGt 105          | Communication skill and Technical English       | BvGt 205           | Applied Statistics                        |
|                   | <b>Practical Subjects</b>                       |                    | <b>Practical Subjects</b>                 |
| Paper No.         | Title of the Paper                              | Paper No.          | Title of the Paper                        |
| BvGt 106          | Practical on Plant Science                      | BvGt 206           | Practical on Agricultural Biochemistry    |
| BvGt 107          | Practical on Plant Propagation Methods          | BvGt 207           | Practical on Green house Plant Physiology |
| BvGt 108          | Practical on Green House Machinery, Operation   | BvGt 208           | Practical on Soil Science and Maintenance |
| BvGt 109          | Practical on Agricultural Production            | BvGt 209           | Practical on Cut flower Microbiology      |
| BvGt 110          | Industry Training                               | BvGt 210           | Summer Training                           |

| Year -2 Semester- III |  | Year -2 Semester- IV |  |
|-----------------------|--|----------------------|--|
| Core Subjects         |  | Core Subjects        |  |
| Paper No.             | Title of the Paper                                 | Paper No.            | Title of the Paper   |
| BvGt 301              | Nursery Management                                 | BvGt 401             | Green house Construction Technology                            |
| BvGt 302              | Green House Protected Vegetable                    | BvGt 402             | Plant Tissue Culture Technology and its Production Application |
| BvGt 303              | Plant Pathology                                    | BvGt 403             | Environment Science  |
| BvGt 304              | Computer Application Practical Subjects            | BvGt 404             | Plant Breeding Practical Subjects                              |
| BvGt 305              | Practical on Nursery Management                    | BvGt 405             | Practical on Green house construction Technology               |
| BvGt 306              | Practical on Vegetable production in Green House   | BvGt 406             | Practical on Plant Tissue Culture Techniques                   |
| BvGt 307              | Practical on Plant Pathology                       | BvGt 407             | Practical on Environment Science                               |
| BvGt 308              | Practical on Computer Application                  | BvGt 408             | Practical on Plant Breeding in Green House                     |
| BvGt 309              | Project: Proposal Writing and Defence - Industrial | BvGt 409             | Industry Internship Training                                   |

| Year -3 Semester V |  | Year-3 Semester VI |   |
|--------------------|--|--------------------|---|
| Core Subjects      |  | Core Subjects      |   |
| Paper No.          | Title of the Paper   | Paper No.          | Title of the Paper  |
| BvGt 501           | Commercial production of ornamental and floral crops in greenhouse                 | BvGt 601           | Seed Technology   |
| BvGt 502           | Marketing and Business of Green House Technology                                   | BvGt 602           | Post Harvest Handling and Packaging of Plant              |
| BvGt 503           | Crop Pests and Management  | BvGt 603           | Organic Farming   |
| BvGt 504           | Entrepreneurship and Development   | BvGt 604           | Green House Management                                    |
| Practical Subjects |  | Practical Subjects |   |
| Paper No.          | Title of the Paper   | Paper No.          | Title of the Paper  |
| BvGt 506           | Practical on Marketing and business of Green House Technology (Review and survey ) | BvGt 605           | Practical on Seed Technology                              |
| BvGt 507           | Practical on Crop Pest Management  | BvGt 606           | Practical on Post Harvest handling and Packaging of Plant |
| BvGt 508           | Project on Entrepreneurship in Green House Technology                              | BvGt 607           | Practical on Organic farming                              |
| BvGt 509           | Industry Training  | BvGt 608           | Practical on Green house management                       |
|                    |  | BvGt 609           | Project on Green House Technology                         |

## V) BCA (Science)

**Eligibility :** Any candidate who has passed the XII standard Examination in Science stream from Maharashtra State Board of Secondary and Higher Secondary Education or equivalent Board of Examination is eligible for admission to the First Year of this program

OR

Passed Three Year Diploma Course approved by the DTE, Maharashtra State or Equivalent authority

**Duration:** 3 years | **Course Structure:** Choice Based Credit System Course (150 Credits)

### BCA (Science) : Program Specific Outcome. (PSO)-UG

| Sr. No. | Objectives/ Outcomes  |
|---------|---|
| 1       | Produce knowledgeable and skilled human resources which is employable in IT and ITES.   |
| 2       | Impart knowledge required for planning, designing and building Complex Application Software Systems as well as provide support to automated systems or application. |
| 3       | Produce entrepreneurs who can develop customized solutions for small and medium Enterprises.  |
| 4       | To give the Basic and advanced programming skill knowledge.   |
| 5       | To give knowledge of Android Programming and Python Programming.  |
| 6       | To give the basic knowledge of computer   |
| 7       | To Enhance and upgrade communication skills in students.  |
| 8       | To know the basic life cycle of software developments, Computer Networks and Databases  |

| Year I                   |                           | Year II                          |                                   | Year III                |                             |
|--------------------------|---------------------------|----------------------------------|-----------------------------------|-------------------------|-----------------------------|
| SEM I                    | SEM II                    | SEM III                          | SEM IV                            | SEM V                   | SEMVI                       |
| Fundamentals of Computer | Computer Organization     | Data Structure                   | C++                               | Core Java               | Advance Java                |
| Basic Programming in C   | Advanced Programming in C | Advanced RDBMS                   | Introduction Web Technology       | Advanced Web Technology | Dot Net Technology          |
| Applied Mathematics-I    | Applied Mathematics-II    | Software Engineering             | Network Security                  | Software Testing        | Recent Trends in-IT         |
| Communication Skills     | RDBMS                     | Introduction to Computer Network | OOSE                              | Operating System        | Software Project Management |
| Lab I                    | Lab I                     | Lab I                            | Lab I                             | Lab I                   | Lab I                       |
| Lab II                   | Lab II                    | Lab II                           | Lab II                            | Lab II                  | Lab II                      |
|                          |                           |                                  | Cloud Computing<br>Gird Computing |                         | Green Computing             |



### **Program Structure:**

- The Program is of a Three Year (Six semesters) Full Time Degree Program.
- The program shall be based on credit system comprising 150 credit points.
- Each of the first three semesters shall have Six Courses and 24 credits and the remaining three shall have Seven Courses and 26 credits each.
- Theory Courses offered shall be of 2 to 4 credits and practical courses of 4 credits each.
- For Theory Course, one credit is equivalent to one clock hour direct teaching in a week and for Practical Course, one credit is equivalent to one and half hours of laboratory work in a week.
- Environmental awareness course is compulsory for S.Y.B.C.A. (Science) (Second Term)

### **Exam Pattern:**

- Each course carrying 100 marks shall be evaluated with Continuous Assessment (CA) and University Evaluation (UE) mechanism. Continuous assessment shall be of 30 marks while University Evaluation shall be of 70 marks.
- To pass in a course, a student has to secure minimum 40 marks provided that he should secure minimum 28 marks in University Evaluation (UE).
- Each course carrying 50 marks shall be evaluated with University Evaluation (UE) mechanism. To pass in a course student has to secure minimum 20 marks.
- CA shall be based on internal tests (minimum 2 for 20 marks). In addition, for remaining 10 marks a teacher may assign various activities such as home assignments, tutorials, seminars, presentations, group discussion etc, to the students and evaluate accordingly.

### **ATKT Rules:**

- Minimum number of credits required to take admission to Second Year of B.C.A.: 32
- Minimum number of credits required to take admission to Third Year of B.C.A.: 80



## P.G. Courses - Science Faculty

### I) M.Sc. (Microbiology)

**Eligibility:** B.Sc. (Microbiology) OR Microbiology as one of the subject in T.Y.B.Sc.

**Criteria for selection:** Based on B.Sc. (Microbiology) / B.Sc. (Biotechnology) Merit

#### Program Specific Outcome. (PSO)-PG

| Sr. No. | Objectives/ Outcomes   |
|---------|--|
| 1       | To enrich specific knowledge in areas like Cell biology, Biochemistry, Biostatistics and bioinformatics, Biophysics and Instrumentation, Virology, Molecular Biology, Pharmacology, waste water microbiology, Immunology and microbial technology. |
| 2       | To understand basic microbiological concepts and perform following procedures as per laboratory standards  |
| a)      | Isolation and characterization of microbes belonging to different taxonomic groups and ecological niches.  |
| b)      | To develop the expertise to use and handle various instruments used in Microbiology laboratory as per SOPs.  |
| c)      | Molecular biology and immunological techniques   |
| d)      | Literature survey, design and execution of plans and protocols for experimentation, data analysis and interpretation, scientific communication as part of dissertation.  |
| e)      | Basic statistics and bioinformatics required for life sciences.  |
| f)      | Presentation skills and Team work  |
| 3       | To inculcate sense of scientific responsibilities.   |
| 4       | To help students build-up a progressive and successful career.   |
| 5       | To inculcate social and environmental awareness.   |

**Course Structure** (Credit & Semester System)

**Duration: 2 years**

#### ➤ PART ONE

| Semester I |  | Semester II |  |
|------------|--|-------------|--|
| Paper No   | Title of the paper                                     | Paper No    | Title of the paper   |
| MB 501     | Microbial Diversity & Taxonomy                         | MB 601      | Instrumentation & Molecular Biophysics                             |
| MB 502     | Quantitative Biology                                   | MB 602      | Molecular Biology I  |
| MB 503     | Cell Organization and Biochemistry                     | MB 603      | Microbial Metabolism   |
| MB 511     | Practical Course 1 : Microbial Diversity & Systematics | MB 611      | Practical Course 1 : Molecular Biology Technique & Instrumentation |
| MB 512     | Practical Course 2 : Biochemical Techniques            | MB 612      | Practical Course 2 : Enzymology & Microbial Metabolism             |

➤ PART TWO

| Semester III |  | Semester IV |                                       |
|--------------|--|-------------|---------------------------------------|
| Paper No     | Title of the paper   | Paper No    | Title of the paper                    |
| MB 701       | Immunology   | MB 801      | Pharmaceutical & Medical Microbiology |
| MB 702       | Molecular Biology I  | MB 802      | Molecular Biology II                  |
| MB 703       | Industrial Waste Water Treatment   |             |                                       |
| MB 711       | Practical Course based on Immunology, Pharmaceutical Microbiology and Environmental Microbiology | MB 803      | Microbial Metabolism                  |
|              |  | MB 811      | Dissertation :1                       |
| MB 712       | Practical Course based on Molecular Biology I & II and Microbial Technology                      | MB 812      | Dissertation :2                       |

## II) M.Sc. (Organic Chemistry)

**Eligibility:** B.Sc. Chemistry

**Duration:** 2 years.

**Criteria for selection:** Based on B.Sc (Chemistry) merit.

### Program Specific Outcome. (PSO) -PG

| Sr. No. | Objectives / Outcomes  |
|---------|--|
| 1       | To enrich specific knowledge in areas like thermodynamics, kinetics, quantum chemistry, nuclear chemistry, spectroscopy, organometallics, bio-inorganics, reaction mechanisms, photochemistry, biochemistry, medicinal chemistry etc. which will give a bird's eye view to the scope of chemistry. |
| 2       | It would help students to learn applications of various facets of chemistry and their importance.  |
| 3       | Problem solving will inculcate logical thinking to address a problem and become result oriented with a positive attitude.  |
| 4       | Practical courses will refine the basic techniques and their use for analyses, syntheses, basic computer skills and research. It would develop analytical independent thinking required for academics, research and industrial work.   |
| 5       | Literature reading and project work will help for strategic planning and execution, to know recent developments in chemistry, its interdisciplinary relevance and create interest for research.  |
| 6       | The credit system would help them to improvise their presentation skills, strive for excellence and create awareness of their social and environmental responsibilities.   |
| 7       | To help students build up a progressive successful career.   |

### Course Structure (Credit & Semester System)

#### ➤ PART ONE

| Semi - I  |   | Semi - II |  |
|-----------|---|-----------|--|
| Paper No  | Title of the paper  | Paper No  | Title of the paper                           |
| CHP - 110 | Fundamentals of Physical Chemistry - I                      | CHP - 210 | Fundamentals of Physical Chemistry - II      |
| CHI - 130 | Molecular Symmetry & Chemistry of p-block Elements          | CHI - 230 | Coordination and Bioinorganic Chemistry      |
| CHO - 150 | Basic Organic Chemistry                                     | CHO - 250 | Synthetic Organic Chemistry and Spectroscopy |
| CHA 190   | Safety in Chemical Laboratory and Good Laboratory Practices | CHA - 290 | General Chemistry                            |
| CHP - 107 | Practical Course (Physical Chemistry)                       | CHO - 247 | Practical Course (Organic)                   |
| CHI - 147 | Practical Course (Inorganic Chemistry)                      |           |  |

#### ➤ PART TWO

| Sem III  |   | Sem IV   |   |
|----------|---|----------|---|
| Paper No | Title of the paper  | Paper No | Title of the paper  |
| CHO-350  | Organic Reaction Mechanism                                      | CHO-450  | Natural Products  |
| CHO-351  | Spectroscopic Methods in Structure Determination                | CHO-451  | Carbohydrate and Chiron approach/Chiral Drugs and Medicinal Chemistry                     |
| CHO-352  | Organic Stereochemistry   | CHO-452  | Advanced synthetic organic Medicinal Chemistry  |
| CHO-353  | Pericyclic Reactions, Photochemistry and Heterocyclic Chemistry | CHO-453  | Designing Organic Synthesis and Asymmetric Synthesis                                      |
| CHO-347  | Practical: Single Stage Preparations                            | CHO-447  | Practical : Two Stage Preparations  |
|          |   | CHO-448  | Practical : Project/Industrial training/ Green Chemistry and Chemical Biology Experiments |

### III) M.Sc: Zoology

**Eligibility :** The candidate should have a B.Sc degree with Zoology as principal subject or B.Sc (General) degree with Zoology as one of the subsidiary subjects. Graduates in any Life Science related subjects such as Biotechnology, Bioinformatics, Life Science, Biochemistry, Microbiology, Agriculture, Veterinary Sciences, Biology, Botany, etc.

**Criteria for selection :** Merit wise

**Duration :** 2 Years

#### Program Specific Outcome. (PSO)-PG

| Sr. No. | Objectives/ Outcomes  |
|---------|---|
| 1       | Animal Systematics: helps to classify the organism based on its characteristics which are expressed can be examined visually or can be tested by other means  |
| 2       | Cell Biology: Students will understand how these cellular components are used to generate and utilize energy in cells. These can include responses to environmental or physiological changes, or alterations of cell functions.   |
| 3       | Genetics: To describe applications and techniques of modern genetic technology, as well as select the correct techniques to solve practical genetic problems.   |
| 4       | Applied Zoology: To provide a strong foundation and motivation for applying fundamental concepts of Zoology in basic research to meet global challenges. To make students to acquire more practical knowledge   |
| 5       | Histology: The fundamental aim of histology is to determine how tissues are organized at all structural levels, from cells and intercellular substances to organs. To understand the core anatomy of tissues and cells.   |
| 6       | Biochemistry: The course aims to provide an advanced understanding of the core principles and topics of Biochemistry and their experimental basis, and to enable students to acquire a specialised knowledge and understanding of selected aspects by means of a stem/branch lecture series and a research project. |
| 7       | Environmental Toxicology: Environmental toxicology is the area of study concerned with harmful effects of chemicals upon ecosystems. So it helps in understanding and eradicating problems of toxicity.   |
| 8.      | Parasitology: Understand and practice basic laboratory techniques used for diagnosis of parasitic infection, of different specimens through detection and identification of parasites. The course covers the following subjects per individual parasite   |
| 9       | Biological techniques: To provide a comprehensive education in biology that stresses scientific ... laboratory skills, and field techniques.  |
| 10      | Physiology and Endocrinology: To learn the basic and advanced endocrine biochemistry, physiology and patho physiology. To accumulate a critical mass of fundamental information and practical approaches.   |
| 11      | General Embryology: To understand complete details about the structures, development of human embryo at different stages including gametogenesis, fertilization, and implantation. Also, the students have the ability to correlate between the embryological structure and its clinical significance.              |
| 12      | Organic Evolution: The student will be able to explain the process of organic evolution and its underlying principles and mechanisms.   |
| 13      | Molecular Biology: Molecular biology deals with nucleic acids and proteins and how these molecules interact within the cell to promote proper growth, division, and development.  |
| 14      | Entomology: To study basic aspects of arthropod ecology, morphology, parasitology, physiology, systematics and toxicology to applied subjects in apiculture, agricultural, medical and veterinary pest management   |



**Course Structure :( Credit & Semester System)**

| <b>➤ PART ONE</b>   |  |                 |   |
|---------------------|--|-----------------|---|
| <b>Paper No</b>     | <b>Title of the paper</b>                      | <b>Paper No</b> | <b>Title of the paper</b>   |
| <b>Semester I</b>   |  |                 |   |
| ZY:101 T            | Biochemistry-I                                 | ZY 101 P        | Practicals in Biochemistry-I  |
| ZY:102 T            | Cell Biology                                   | ZY 102 P        | Practicals in Cell Biology  |
| ZY:103 T            | Genetics                                       | ZY 103 P        | Practicals in Genetics  |
|                     |  | ZY 104 P        | Practicals in Biostatistics   |
| ZY:105 T            | Skills in Scientific communication and writing | ZY 105 P        | Practicals in Skills in Scientific communication                      |
| ZY:106 T            | Fresh Water Zoology                            | ZY 106 P        | Practicals in Fresh Water Zoology                                     |
| <b>Semester II</b>  |  |                 |   |
| ZY 201T             | Biochemistry-II                                | ZY 201 P        | Practical Biochemistry-II   |
| ZY 202 T            | Molecular Biology                              | ZY 202 P        | Practical Molecular Biology   |
| ZY 203T             | Developmental Biology                          | ZY 203 P        | Practical Developmental Biology                                       |
| ZY204T              | Endocrinology                                  |                 |   |
| ZY205T              | Comp. Animal Physiology                        | ZY 205 P        | Practical Comp. Animal Physiology                                     |
| ZY206T              | Ichthyology                                    | ZY 206 P        | Practicals in Ichthyology   |
| <b>➤ PART TWO</b>   |  |                 |   |
| <b>Semester-III</b> |  |                 |   |
| ZY301T              | Entomology I                                   | ZY 301 P        | Practicals in Entomology I  |
| ZY302T              | Environmental biology                          | ZY 302 P        | Practicals in Environmental biology                                   |
| ZY304T              | Insect physiology and biochemistry             | ZY 304 P        | Practicals in Insect physiology and biochemistry                      |
|                     |  | ZY 305 P        | Practicals in Research methodology                                    |
|                     |  | ZY 306 P        | Practicals in Parasitology  |
| ZY307T              | Fundamentals of Systematics                    | ZY 307 P        | Practicals in Fundamentals of Systematics                             |
| ZY308T              | Insect Ecology                                 | ZY 308 P        | Research Project  |
| <b>Semester-IV</b>  |  |                 |   |
| ZY 401T             | Entomology II                                  | ZY 401 P        | Practicals in Entomology II   |
| ZY 402 T            | Economic Zoology /                             | ZY 402 P        | Practical Economic Zoology / Bacteria and phage Genetics              |
| ZY 403T             | Biodiversity assessment                        | ZY 403 P        | Practical Mammalian reproductive physiology / Biodiversity assessment |
| ZY405T              | Pollution Biology                              | ZY 405 P        | Practical Pollution Biology   |
| ZY 406T             | Apiculture                                     | ZY 406P         | Practical Apiculture  |
|                     |  | ZY 308 P        | Research Project  |

## IV) M.Sc. (Biotechnology)

**Eligibility:** B.Sc. Biotechnology

**Criteria for selection:** On the basis of Merit.

**Total Intake : 48**

### Program Specific Outcome. (PSO)-PG

| Sr. No. | Objectives/ Outcomes   |
|---------|--|
|         | After successful completion of this post-graduate degree program, the students should be able:   |
| 1       | to understand the need and impact of biotechnological tools, techniques and solutions to the problems and issues pertaining to environment and society in view and need for sustainable solution |
| 2       | to be aware in social, ethical, and professional issues of contemporary practices in biotechnology and related fields  |
| 3       | to design, perform experiments, analyze and interpret data for investigating complex problems in subjects covered in the program   |
| 4       | to undertake the responsibilities as an individual and as a team in a multidisciplinary environment  |
| 5       | to develop oral and written skills for effective communication   |
| 6       | to acquire knowledge and competence for clearing various examinations to such as CSIR-NET, ARS-NET GATE, ICMR, and DBT for pursuing higher studies (M.Phil, Ph.D)                                |
| 7       | to design experiments and undertake research work  |
| 8       | to develop commercially viable processes and technologies in biotechnology related areas   |
| 9       | to acquire knowledge and competence for initiating start-ups in biotechnology related areas  |
| 10      | to visualize the current and future trends in science, life sciences and inter-disciplinary fields   |

### Course Structure (Credit & Semester System)

**Duration: 2 Years**

#### ➤ PART ONE :

| Semester I |  | Semester II |  |
|------------|--|-------------|--|
| Paper      | Title of the paper                             | Paper       | Title of the paper                         |
| BT 101     | Advanced Biological Chemistry                  | BT 201      | Genetic Engineering                        |
| BT 102     | Molecular Biology                              | BT 202      | Immunology                                 |
| BT 103     | Environmental Biotechnology                    | BT 203      | Principles of Bacteriology and Virology    |
| BT 104     | Cell Biology                                   | BT 204      | Plant Biotechnology                        |
| BT 105     | Exercises in Advanced Biological Chemistry (P) | BT 205      | Exercises in Genetic Engineering (P)       |
| BT 106     | Exercises in Molecular and Cell Biology (P)    | BT 206      | Exercises in Immunology (P)                |
| BT 107     | Exercises in Environmental Biotechnology (P)   | BT 207      | Exercises in Plant Biotechnology (P)       |
|            |  | BT 208      | Exercises in Bacteriology and Virology (P) |

\*(P) = Practical

**PART TWO :**

| <b>Paper</b> | <b>Title of the paper</b>                        | <b>Paper</b> | <b>Title of the paper</b>                               |
|--------------|--|--------------|---|
| BT 301       | Animal Biotechnology                             | BT 401       | Genomics and Proteomics                                 |
| BT 302       | Bioprocess engineering & Fermentation Technology |              |   |
| BT 303       | Data Base Management and IPR in Biotechnology    | BT 403       | Exercises techniques in Biochemical and Biophysical (P) |
| BT 305       | Bioinformatics                                   | BT 404       | Nanobiotechnology (T+P)                                 |
| BT 306       | Exercises in Animal Biotechnology (P)            | BT 405       | Stem Cell Technology & Regenerative Medicines           |
| BT 307       | Exercises in Bioprocess Engineering (P)          | BT 406       | Agricultural Biotechnology                              |
| BT 308       | Exercises in Bioinformatics (P)                  | BT 407       | Project   |
| BT 309       | Seminars, Term paper writing                     |              |   |
| BT 310       | Scientific Research and Communications #         |              |   |

(P) = Practical (T+P) = Theory + Practical Course, # = Departmental Courses

**V) M.Sc. (Computer Science)**

**Eligibility:** The candidate should have a B.Sc. degree with Computer Science as principal subject.

**Computer Science : Program Specific Outcome. (PSO)-PG**

| <b>Sr. No.</b> | <b>Objectives/ Outcomes</b>                                  |
|----------------|--|
| 1              | Prepare technically skilled personnel for jobs in IT sector. |
| 2              | Upgrading students with soft skills.                         |
| 3              | Preparing students for global competition.                   |
| 4              | Developing students skill sets as an Entrepreneur            |
| 5              | Higher Education and Research                                |

**Criteria for Selection:** As per the selection procedure / policies adopted by the college, in accordance with conditions laid down by the SavitribaiPhule Pune University.

## ➤ PART ONE

| Sem I         |                                     | Sem II                   |   |
|---------------|-------------------------------------|--------------------------|---|
| Core Subjects |                                     | Core Subjects            |   |
| Paper         | Title of the Paper                  | Paper                    | Title of the Paper                        |
| CS-101        | Principles of Programming Languages | CS-201                   | Digital Images Processing                 |
| CS-102        | Advanced Networking                 | CS-202                   | Advanced Operating System                 |
| CS-103        | Distributed Database Concepts       | CS-203                   | Data Mining and Data Warehousing          |
| CS-104        | Design and Analysis of Algorithms   | CS-204                   | Project                                   |
| CS-105        | Network programming                 | <b>Elective Subjects</b> |   |
|               |                                     | CS-205                   | Programming with DOT NET                  |
|               |                                     | CS-206                   | Artificial Intelligence                   |
|               |                                     | CS-207                   | Advance Design and Analysis of Algorithms |

## ➤ PART TWO:

| Sem III                  |                                       | Sem IV                   |   |
|--------------------------|---------------------------------------|--------------------------|---|
| Core Subjects            |                                       | Core Subjects            |   |
| Paper                    | Title of the Paper                    | Paper                    | Title of the Paper                        |
| CS-301                   | Software Metrics & Project Management | CS-401                   | Industrial Training/Institutional Project |
| CS-302                   | Mobile Computing                      |                          |   |
| CS-303                   | Soft Computing                        |                          |   |
| <b>Elective Subjects</b> |                                       | <b>Elective Subjects</b> |   |
| CS-304                   | Project                               | CS-402                   | Parallel Computing                        |
| CS-305                   | Web Services                          | CS-403                   | Embedded System                           |
| CS-306                   | Database and System Administrator     | CS-404                   | Software Quality Assurance                |
| CS-307                   | Functional Programming                | CS-405                   | Modeling and Simulation                   |
| CS-308                   | Business Intelligence                 |                          |   |

**Proposed Courses for A.Y. 2019-20**

M.Sc. (Computer Applications) [M.Sc. (CA) ]

# Examination Procedure

## General Instructions

- All the students are informed to use online application system for submitting examination form (online portal *exam.unipune.ac.in* of examination section of Savitribai Phule Pune University)
- A Student has to obtain eligibility certificate before filling examination form.
- After declaration of results college notifies about filling online rechecking (Photo copy of answer sheets)/revaluations forms
- Passing percentage in all subjects is 40 %.
- ATKT rules are applicable as per SPPU norms.
- Internal examinations will be conducted only once per semester / term.
- All the first year level (F.Y.) examinations will be conducted by the college itself as per the University guidelines.
- Students of first year of all the faculties have to appear for Physical Education examination.

**Students who do not fulfil this condition will not be permitted to appear for the Annual examination.**

- Medical check up is compulsory for students of first year of all the faculties. Students who do not fulfil this condition will not be permitted to appear for Annual examination.
- **EVS, Environment Awareness Course is compulsory for all S. Y. B. A. / S. Y. B. Com / S.Y. B. Sc. Students. Passing in EVS is mandatory to acquire a Degree Certificate.**

**A student appearing for the examination must obey the following instructions:**

### A. While entering the examination hall

1. Make sure that you are not in possession of any material such as books, note-books, scribbled notes, mobile, etc., which may

tempt one to copy or use as a reminder.

2. Do not take away any answer-book or supplement (written or blank) while leaving the examination hall.
3. Do not speak or communicate in any way with any other candidate in the examination hall while the examination is going on.
4. Do not disobey any instruction/s issued to you by the Senior or Junior Supervisor.
5. Do not behave in a rude or disobedient manner. Failure to observe the instructions may result in expelling the candidate instantly and punishing the misconduct or breach of rules by excluding the candidate from any University or College Examination or Course for a specified period or permanently.

### B. While writing in the examination hall

1. Write on both sides of the answer book.
2. Write the answer- books in blue or black ink/ball pen only. Use of coloured pencil or ink in case of diagrams and sketches is permitted.
3. Do not write your name in any part of your answer-book or disclose your identity in any other manner.
4. Do not write anything on your question paper or the blotting paper.
5. Do not write your seat number anywhere except in the space provided. If seat number is written anywhere else, it will be treated as 'unfair means' and the performance will be treated as null and void for the entire examination.
6. Address all your queries to your supervisor, do not leave your Seat on any account.
7. If you suspect that there is some error in the question paper, immediately bring it to the notice of the Senior Supervisor so as to enable him to rectify it after making the necessary enquiries. In case the Senior Supervisor is unable to rectify the error while the paper is in



progress, you should bring the suspected error to the notice of the University through the Chief Conductor of the Examination centre immediately.

8. Write your answer in a legible handwriting. Answers written in an illegible and indecipherable handwriting are liable to be unassessed.
9. In case a part of the answer to a question is written on a page not immediately succeeding the page on which the main body of the answer is written, the fact must be clearly indicated at the end of the complete answer, otherwise the part of the answer is liable to remain unassessed.
10. You will not be permitted to leave the examination hall until half an hour after the question papers are distributed and during last 10 minutes of the schedule time prescribed for the particular examination.
11. Exchange of writing materials, stencils, mathematical instruments, etc., is strictly prohibited.
12. An act of copying or impersonation at an examination is punishable under 'The Maharashtra Prevention of Malpractice at University, Board and other specified examinations, 1982'. The act passed to the effect.
13. Do not write answers in wrong sections as these will not be examined.

### **C. While handing over the answer-books to the supervisor**

1. Make sure that you have completely and correctly written your seat number and other details on the cover page of the answer-book/s and supplement/s.
2. All answer-books and supplements supplied to you must be handed over to the Supervisor intact whether written in or blank.

### **Grant of additional marks for extra-curricular activities (University Ordinance no. 163):**

1. Five additional marks may be granted to

candidate appearing for University examination of any degree, as an incentive, for his/her participation in any one or more of the following activities:

**a. National Cadet Corps (NCC):** Candidate enrolled in NCC must have passed 'B' and/or 'C' certificate examination and /or Candidate enrolled in NCC must have attended 75 % parades out of total no. of parades and one camp prescribed for NCC.

**b. National Service Scheme (NSS):** Candidate enrolled in NSS must have completed 120 hours of effective work and attended the necessary number of camps.

**c. National Physical Efficiency Drive:** Candidate enrolled in this must have acquired three stars under the programme.

**d. Inter-University, National / International Sports tournaments / debating / elocution/ dramatics / mock court and such other competitions as approved by the Executive Council from time to time.**

**e. Adult Education Programme of Savitribai Phule Pune University**

A candidate must have completed at least 200 clock hours work to the satisfaction of the project in-charge and secured necessary certificate of the course.

2. The additional marks shall be granted to the candidate only for that examination during the course of which the candidate has participated in the activities mentioned above.

3. A student shall submit an application form before the date of commencement of his/her examination along with prescribed fees for the grant of additional marks along with necessary original certificate or copies thereof countersigned by the Principal of the College. No application received after the commencement of examination shall be entertained by the University.

## EXAMINATION PATTERN

| Class     | Term End / Mid Term | University Exam | Total Marks | Aggregate Marks |
|-----------|---------------------|-----------------|-------------|-----------------|
| F.Y.B.A   | 20 Marks            | 80 Marks        | 100         | 600             |
| S.Y.B.A   | 20 Marks            | 80 Marks        | 100         | 600             |
| T.Y.B.A   | 20 Marks            | 80 Marks        | 100         | 600             |
| F.Y.B.Com | 20 Marks            | 80 Marks        | 100         | 700             |
| S.Y.B.Com | 20 Marks            | 80 Marks        | 100         | 600             |
| T.Y.B.Com | 20 Marks            | 80 Marks        | 100         | 600             |

| Class             | First Term | Second Term | Total        | Aggregate Marks |
|-------------------|------------|-------------|--------------|-----------------|
| F.Y.B.Sc/Comp.Sc. |            | 80 + 20     | 100          | 1200            |
| S.Y.B.Sc/Comp.Sc. | 10 + 40    | 10 + 40     | 100          | 1000            |
| T.Y.B.Sc/Comp.Sc. | 10 + 40    | 10 + 40     | 100          | 900             |
| Practical         |            | 80 + 20     | 100 (Annual) | -----           |

Syllabus Structure & Examination Pattern of First Year Courses (BA/ Bcom/B.Sc) and PG Courses are likely to be changed in the next Academic Year 2019-20

### Note :

#### ➤ Science Faculty

- Practical - For F.Y.B.Sc., S.Y.B.Sc. and T.Y.B.Sc. (except maths), Annual practical Exam will be conducted.
- S.Y.B.Sc. (Mathematics) and T.Y.B.Sc. (Mathematics)- Semester wise Practical examination will be conducted.
- F.Y.B.Sc. (Bio-tech) - Annual Practical Examination will be conducted.
- S.Y. B.Sc. (Bio-tech) and T..Y. B.Sc. (Bio-tech)-semesterwise Practical Examination will be conducted.

#### ➤ Commerce Faculty

- Practical subjects: Marks scheme: 20 + 20 +60=100  
(20 for practical, 20 for term end exam, and 60 for final exam.)  
Individual passing in theory and practical is necessary, i.e. 32 out of 80 (theory), 8 out of 20 (practical). If student fails in two practicals, there will be a year down.
- Non-practical subjects: Marks scheme: 20 + 80 = 100  
(20 for term end and 80 for final exam.) Minimum 40 marks out of 100 are required for passing.

***The examination pattern for PG courses will be implemented based on credit system. Information available on Page 13-15.***

## Co-curricular & Extra Curricular Activities

**Arts Circle** This is the cultural activity of the college which provides a platform to the students of all the faculties interested in dance, dramatics, elocution, singing, instrumental music, debate, poetry etc. Through this activity students can participate in intercollegiate competition at Local, State, National and International level. The students learn to appreciate Performing Arts.

**Swar Madhuri:** An Inter-Collegiate state level Classical Vocal and Natya Sangeet Competition organized in memory of the founder Late Shankarrao Kanitkar. The competition provides a platform to young artists, to showcase their talent in classical music. This activity is conducted in collaboration with 'Student Welfare Department' SPPU, Pune and is partly funded by them. VidyaVani – P.M. Radio of Savitribai Phule Pune University are the media partners.

**National Service Scheme (N.S.S.) :** The N.S.S Unit of 100 Students is granted to the college. The unit organizes lecture series, Shramadan, Educational tours, Cultural Activity including 8 days special winter camp in rural areas. College was awarded with Best N.S.S. Unit by Savitribai Phule Pune University.

**National Cadet Corps (N.C.C.) :** It is a Tri-services Organization comprising the Army, Navy and Air force, engaged in grooming the youth into disciplined and patriotic citizens. Cadets

participate in weekly parades at N.C.C Head Quarters and NDA. During these parades they undergo different activities like exercises, drills, physical training, lectures on future scope, discipline and how to perform better in N.C.C. Saivibhuti Patil and Apoorv Satpute are selected for RDC 2018. Sarvesh Navande is selected All India Best Cadet and is proud recipient of a gold medal by the Prime Minister of India on 28-01-2018. Also selected for Youth Exchange Programme for training in Russia.

**Soft Skills Development Programme:** Soft Skills training provides a unique opportunity for all students to develop their personality and improve their communication and presentation skills. The programme focuses on areas of training that require changes in behaviour and thinking to fulfill

employable needs among students. This training programme also helps students in developing a career-vision in an informal, interesting and interactive manner. The programmes are conducted in association with industry and Savitribai Phule Pune University.

**The 'Pride of Modern' : The Best Student Trophy** - This is a very prestigious competition held every academic year. It is open for students who wish to participate voluntarily and also for those who are nominated from various categories Viz, Academics, Sports, NCC, NSS and Arts to Circle. However in order to participate the student needs to have completed two academic years in Modern College, Ganeshkhind and qualified his examinations in one attempt. He/She is also expected to have participated in co-curricular and extension activities of the College. The Best Student Award comprises of a Rolling Trophy, memento, Certificate of Excellence and Cash Prize.

The first step in the selection procedure involves scrutiny of application forms to measure students' achievements. This is followed by a mental ability test, a preliminary interview and lastly the final interview conducted by a panel of external experts.

**Yuva Saptah :** This activity is conducted to commemorate Vivekanand Jayanti in the second week of January. Various competitions are conducted like, Mehendi, Rangoli, Poetry Reading, Elocution, Kau Banega History Scholar ?, How Dramatic Are you ?, What's Good Word ?, Spellathon : A Spelling Competition, Psychology Quiz, Short Film and Poster Competition, etc.

**Vividha :** It is a platform given to the students to showcase their entrepreneurial talents. This is an event jointly organised by College and its alumni association Modernities. It conducts various events for all stakeholders.

**Indian Red Cross Society:** Junior/Youth Red Cross Pune District – Indian Red Cross Society is a world organization working for the country. This activity enables students to understand issues related to health and hygiene, Disaster management and create awareness about communicable and non-communicable diseases

**Rotract Club:** Established in 2011 with the help of Rotary Club of Pune Uptown, under which 200 students are registered. It organizes different activities which are beneficial to society as well as youth and organizes Blood Donation Camp, Tree Plantation, Leadership Program, Guest Lectures, etc.

**Competitive Examination Guidance Cell :** This unit arranges various activities for students to get guidance for preparation of various competitive exams conducted by various institutes. The activities include study circle. Guest Lectures, Book exhibition, group discussions and personal interviews. The functioning of the cell is based on Graduate Excellence Examination pattern conducted by the centre of talent search and Excellence, Pune

**Modernites :** It is a registered association of the college. It conducts the following activities. 1. Gives 'Gollapudy Scholarship' every year to deserving students. 2. Conducts 'Vividha', an exhibition cum sale to promote entrepreneurial spirit. 3. Contributes in placement cell, Entrepreneurship Development Cell (EDC), Internal Quality Assurance Cell (IQAC), etc.

**Modern Trek Club:** Trekking is very useful activity to maintain our physical and mental fitness. Every year Modern Trek Club organizes treks in Sahyadri with 100-200 students.

It includes : i) Trekking to various places like Panhala, Vishalgad, Sinhagad, Raigad, Torna etc. ii) Gives information about Environment Protection, Forest and water Conservation and problems of tribal people

#### **Modern Cycling Club :**

The main objective of Modern Cycling Club is to encourage cycling as a lifelong activity for students' health, happiness and to reduce traffic jam and pollution. Cycling is good for strength and stamina. Many college students use bicycle daily for their regular commute to college from home. Modern Cycling Club advocates for bicycling through education, communication. Club organizes regular short and long cycling expeditions to encourage cycling among students to make our city clean and green.

#### **Department of Lifelong Learning & Extension :**

This activity is conducted in association with Department of Adult and Continuing Education and Extension Activities, Savitribai Phule Pune University. Activity promotes interdisciplinary collaboration for better understanding of human problems and reaching out to large sections of community, specially deprived groups. Activities are carried out to develop Knowledge, skills, attitudes and values to integrate theory and practice for lifelong learning.

## Student Support Services

### **Earn and Learn Scheme**

The earn and learn scheme has been granted to the College by Savitribai Phule Pune University from 2004-05. Many students have benefitted through the scheme till now. Students work in library, gymnasium, office and laboratories. They get work experience along with some financial help under this scheme.

### **Gymkhana**

The College encourages and promotes students in the field of sports through the Gymkhana

### **Infrastructure**

Well equipped Gymnasium, Basketball Court, India Games Arena (Kabbadi, Khokho) Equipment Room, Indoor Games (Chess / Table Tennis / Badminton), Volleyball court are available in the college.

### **Achievements of the Gymkhana Department**

25 Shiv Chatrapati Awardees (The Highest Sports Award for Sports Person in Maharashtra State) | 30+ International Players • 350+ National Players • Regularly organizes State, Inter Zonal, Intercollegiate and Interclass sports for students of our college and other colleges. • “Modern Shree” – State level Intercollegiate Best Physiques Competition Since 2006.

### **Central Library :**

Central Library is one of the vibrant learning unit of the college. The main purpose of library is to freely disseminate knowledge, support teaching, research and academic activities and ignite the minds of youngster studying in our college. All library staff works with the motto “To Give Maximum Information for Maximum Number of Times by



Maximum Number of Ways in Minimum Times”. Library operates on need based approach rather than the usual rules-based treatment. It provides open access to all, disseminate knowledge freely to all and support teaching, learning and research activities of the college.

- Library is fully automated and well equipped with wide collection of reference, text and general reference books, national and international periodicals and electronic resources like e-books, e-journals, audio books, CDs/DVDs and databases like J-Gate Basic Science.
- Library is giving technology based services and facilities such as Web-OPAC, reference service for searching information from online databases, e-books, e-journals, CDs/DVDs, consortia, audio books, library e-newsletter, online information literacy programs, library Blog, Online Brochure, digital library, Internet facility, Urkund- an anti-plagiarism software along with other open source tools available for research scholars, computerized issue return and attendance through barcode scanner, etc. At the same time it also provide traditional services such as reference and referral service, current awareness service, bibliographical services, reading facility, book bank facility for needy students, institutional membership of other libraries, inter library loan and library orientation programs, etc.
- Library has a huge collection of books which includes reference, text, self-help, personality development, biographies, autobiographies, success stories, novels and competitive exam related books in our library. Library subscribe national and International journals and magazines and provide gateway to many online scholarly publications.
- Every year library organizes book exhibitions; guest lectures, celebrates birth anniversaries of eminent personalities, conducts various competitions and other programs to inculcate reading habits among the students and support competitive examination cell.
- Through library website and web-OPAC library is accessible to users for 24/7 from any location. Library has its active Facebook page to circulate notices and updates.
- Library has taken membership of UGC NList

Consortia, British Library, Jayakar Library, Maratha Chamber of Commerce and Industries, Historian V.K. Research Centre.

**Note:** Identity card is compulsory while using library services. Students should follow instructions displayed in the library. For more details log onto: [www.moderncollege.org/library.php](http://www.moderncollege.org/library.php) or contact Librarian **Dr. Sangeeta Dhamdhere** on [librarian@moderncollegegk.org](mailto:librarian@moderncollegegk.org) or call on 7972092077

### Placement cell

College has Placement cell for UG and PG students. Activities under the placement cell include conducting aptitude tests, seminars, Group discussions, guest lectures and Soft Skill workshop.

Well-known companies from IT sector (Quickheal, Persistent System, Patni, Webtech etc) Chemical industries (Innovassynth, Jubilian, Lupin, etc ) as well as companies like e-Solve conduct campus interviews in the college for selection of candidates. Students also get opportunity to work in different Research organizations like NCL, NARI, NCCS, NIV etc. to do research activity and seek higher education.

### Student's Safety – on and off the campus

Following are the provisions done by the college to ensure the safety of the student on and off the campus.

- In scalable boundary wall height, single entry point to the campus safeguard with security guards.
- Identity Verification mechanism, register for unknown visitors.
- Electronic Surveillance System
- Wearing of ID cards by the students and staff in the premises is made compulsory

**Anti Sexual Harassment Cell:** This Cell functions as per the guidelines of the Sexual Harassment of Women at the Workplace (Prevention, Prohibition and Redressal Act) 2013 and the UGC Regulations on Anti Sexual Harassment (2015). The Internal Complaints Committee handles the complaints and gives its recommendations to the Management for further action. The Internal Complaints Committee is as under :

**Dr. Sadhana Natu** Presiding Officer

(Associate Professor, 9890377533)

**Dr. Anagha Tambe** External Expert

(Director WSC 9850134078)

**Anti-ragging Cell:** Students violating rules laid down by the Govt. of Maharashtra regarding ragging are severely punished as per the law by Anti - Ragging cell of the college which is functioning according to UGC guidelines. Institutional Anti-ragging squad visits probable places of the college campus to control the ragging activities.

Students can use following helping numbers against ragging, sexual harassment, accidents, calamities etc.

Principal: 020- 25634021 (201)

Vice-Principal: 020- 25634021 (203)

Registrar : 020- 25634021 (206)

(Refer Disciplinary rules - page 63)

**Grievance cell** is constituted to address students' concerns and their grievances.

### **Counseling and Vocational Guidance Cell**

The activity carried out by the department of psychology. The center offers counseling on familial, personal and emotional issues. It offers Vocational guidance and career counseling. The Cell conducts workshops on Study Skills, Life Skills, Premarital Education, Career opportunities for students of all the faculties.

Every year many students from all the three faculties avail the benefits of this centre.

**Venue :** Department of Psychology, Next to the Commerce Laboratory, Behind the Stage.

#### **Timings:**

**Tuesday** - 12 to 2 p.m.

**Friday** - 12 to 2 p.m

**Saturday** - 12 to 1p.m.

The Counselling is done **free of cost**.

**Counselor:** HOD, Psychology Dr. Sadhana Natu a trained Clinical Psychologist with 25 years' experience, assisted by Dr. Suvarna Bobade, a Counsellor.

### **International Student Cell**

The cell functions as per the guidelines given by the International Students Centre of Savitribai Phule Pune University. The Cell strives to cater to the needs of international students .

- Assistance is given during admission procedure, to complete legal formalities and visa procedure.
- Trilingual' booklet is circulated at the time of admission to guide and help in case of language problems and queries related to their academics and career. Bridge and Foundation courses are run to fill the academic gap and improve their communication skills.
- Scholarships through International Council for Cultural Relations (ICCR) for their studies and provision of fee instalments for needy foreign students.
- Tour of 'Pune Darshan' is arranged to make them familiar with the city .
- The institution also organize events like 'Beyond Borders' and 'Colors of India' and 'Transcending Cultural Boundaries' based on presentations and performances to create a multicultural understanding among local and international students. Foreign students are encouraged and motivated to participate in the cultural program organized by Parent University titled as 'Know My Country'.

### **Support given to students with Physical Disabilities:**

- College encourages students with Physical Disabilities and assures dignity and their access to higher education through the various facilities provided. To name a few are Academic and personal psychological Counselling, Audio CDs and text books, Special seating arrangement at the time of Examination ,Writer's club and Infrastructural facilities like elevator, ramp, wheel chair ,separate Washroom.

**Parent Teacher meet** is organized frequently

**Disaster management cell** organizes mock drills, workshops and awareness programs.

**Mission Mrutyunjay Club:** Mission Mrutyunjay Club is an activity initiated by the Police department of Pune city to impart citizenship training to Students.



## Vidyarthini Manch

### *Objectives*

- To create awareness about gender issues
- To create a platform for female students to voice their concern
- To empower female students

### *Activities*

Conducting informative lectures, poster exhibitions. Pre-marital and Career Counseling for female students, Interactive sessions with Gender Studies Experts.

**There will be no annual social gathering in the college. No special days (such as valentine day, traditional day etc.) will be allowed to be observed.**

### **Safety of Students during Excursions / Visits / Tours /Academic Trips**

- The Excursions /field visit/Tours/Academic Trips are to be carried out by **Team of Trained Teachers**, which include a **Lady Teacher**
- The concerned teachers circulate **Travel Plan and Do's & Don'ts during traveling** well in advance to students and Parents/Guardians.
- The **Consent Letter** from Parents /Guardians is Mandatory.
- **The Training session** is conducted for students and parents to: provide Geographical information, emergency procedures to be followed, Do's & Don'ts during traveling, First Aid.
- Instructions about Discipline, Team spirit, and caring attitude for others.
- Ensuring Medical Fitness of student.
- To communicate well in advance :the contact details of Travel company ,Driver along with Bus No., Travel Plan etc.



# Disciplinary Rules

## Disciplinary Rules

Students are requested to refrain from any form of ragging. As per the UGC Draft Regulations on curbing the menace of ragging in higher educational institutions, 2009, every student and parent will have to fill and sign an undertaking to refrain from ragging, and submit along with the admission form.

**b. A Cell against Harassment and Atrocities against Women** is functioning in the College in keeping with the Supreme Court guidelines (Vishaka guidelines).

- c. Smoking is strictly prohibited in the campus.
- d. As per the Pune University Rules, **a minimum of 75% attendance is essential**; failing to which action will be taken as per the rules.
- e. The students should be aware that four wheeler commuting to the college and four wheeler parking for students is strictly prohibited.
- f. The Student shall park the vehicle in the parking space provided by the College and pay the charges.
- g. The student **shall not consume tobacco, drugs, pan parag, gutkha, liquor and other things** which are injurious to health.
- h. The student shall **switch off his/her mobile while in College premises**.
- I It is **compulsory to wear I-card** in the college campus

## Maintenance of Discipline and Good Conduct by Students - Ordinance 157.

(Under section 87 & section 39 (III) of the Pune University Act, 1974.)

### 1. Every Student of Modern College shall at all time

- i) Conduct himself properly, ii) maintain proper behaviour, iii) observe strict discipline both on the campus of the college and also outside, in buses, railway trains or at Public places or at picnics or education trips arranged by the College or at playgrounds, iv) ensure that no act of his / her consciously or unconsciously brings the College into disrepute, v) Shall not lodge any complaint or make any representation regarding any matter connected with the College to the press or other media.

### 2. Any Student who behaves contrary to the provisions of following clause:

- 1) shall constitute **misconduct and / or indiscipline** which terms shall mean and include, among others, any one or more of the acts jointly or severally, mentioned hereinafter, namely-
  - (i) any act that directly or indirectly causes or attempts to cause disturbance in the lawful functioning of the college,
  - (ii) habitual unpunctuality in attending lectures, practical, tutorials and other courses as may be prescribed,

- (iii) repeated absence from lectures, tutorials, practical and other courses as prescribed,
- (iv) canvassing for or accepting contributions or otherwise associating himself or herself with raising of any fund or any object whatever without the previous sanction of the principal,
- (v) securing admission in the college to any undergraduate or postgraduate programme or any other course by fabrication or suppressions,
- (vi) Obstruction to any students or group of students in his or their legitimate activities, whether in the classroom, laboratories, fields, playgrounds, gymnasium or place of social and culture activity within the campus of the college.
- (vii) possessing or using fire arms, lethal weapons, explosives or dangerous or corrosive poisonous or stupefying drug or intoxicant in any form in the college.
- (viii) ragging, bullying or harassing any students in the college or outside thereof,
- (ix) to any other student or the authorities of the college or to staff member, or any member of the family of the staff.
- (x) indulging in any act of violence, assault, intimidation or threatening in the College or outside thereof,
- (xi) destroying or attempting to destroy or tamper with any official record or document of the College,
- (xii) conduct unbecoming of the student at any meeting or special function or sports and culture activities arranged by the College or at any other public place,
- (xiii) stealing or damaging any property belonging to the college, staff member of the college or any other students,
- (xiv) instigation or participating in any gherao of any official or staff member of the college,
- (xv) violation of any of the rules and regulations of the college or orders of the Authority,
- (xvi) gambling in any form in the college,
- (xvii) refusal to appear to give evidence before Enquiry Officer appointed by the authority with respect to a charge against him,
- (xviii) disorderly behaviour in any act specifically forbidden by the authority.
- (xix) conviction on the Court of Law for criminal offences, involving moral turpitude,
- (xx) any other act not specifically mentioned hereto before which whether, by commission or omission, as would in the circumstances of the case, be considered by the Authority as an act of misconduct and / or indiscipline.



## College Committees

### College Committee

Academic Planning  
Alumni Association  
Anti Ragging  
Art Circle  
Best Student Trophy  
Board of National and International Linkages  
Central Documentation Committee  
Chemiyad  
Competitive Examination Cell  
Dead Stock Verification  
EVS Course Co-ordinators

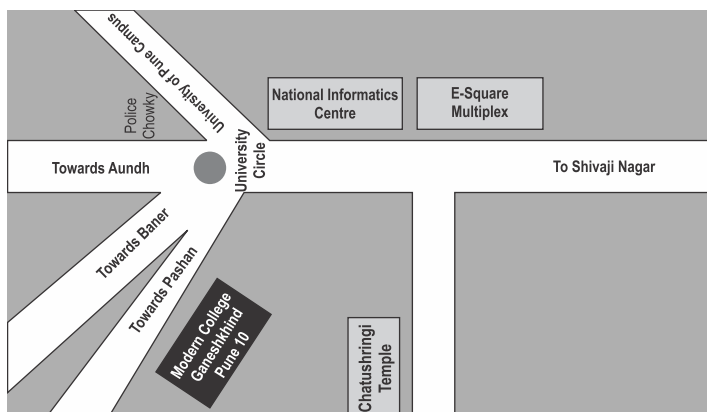
Examination Committee  
Feedback Committee  
Grievance Redressal Cell  
Gymkhana Committee  
Health check up Committee  
I - Card Preparation and Monitoring Committee  
IMPACT Committee (Implementation and planning of Academics and Training)  
Innovation and Incubation Cell & Board of Research  
Internal Complaint Committee  
Internal Examination Committee  
International Student Cell  
Journal Activity Committee  
Library Committee  
Akanksha Magazine Committee  
N.C.C Committee  
N.S.S Committee  
Placement Committee  
Prize Distribution Committee  
Prospectus Committee  
Reservation Cell/ Aarakshan Samiti  
Result Analysis Committee  
Science Association  
Soft Skill Program  
Staff Academy  
Student Council  
Student Counselling Cell  
Student Development Cell  
Swar Madhuri  
Website Updation Committee  
Yuva Saptah Committee

### In-Charge

Dr. Sanjay S.Kharat  
Prof. Vijayalaxmi Kulkarni  
Prof. Namdev Doke  
Prof. Prasad Deshmane  
Prof. Chakraborti Shampa  
Prof. Gouri Koperdekar  
Prof. Vijaya Kulkarni  
Mr. Thakar Dnyaneshwar  
Prof. Jayshree Jain  
Mrs. Swati Kandharkar  
Arts: Prof. Dastgir Pathan  
Commerce: Prof. Moreshwar Mishi  
Science: Dr. Sushma Katade  
Dr. Ravindra Kshirsagar  
Prof. Mrunalini Bhadane  
Prof. Swati Kandharkar  
Dr. Deepak Shendkar  
Dr. Savita Sabnis  
Prof. Pallawi Bulakh  
Prof. Pradnya Pathakji  
Dr. Vinay Kumar  
Dr. Sadhana Natu  
Prof. Motilal More  
Prof. Gauri Koperdekar  
Prof. Anuradha Bhamidi  
Dr. Deepak Shendkar  
Dr. Sanskruti Awalgaoonkar  
Prof. Sandeep Sanap  
Prof. Kumod Sapkal  
Prof. Varsha Bapat  
Dr. Madhuri Kulkarni  
Prof. Manisha Bele  
Prof. Mahendra Waghmare  
Dr. Nilima Kulkarni  
Prof. Vaishali Salunke  
Mr. Parag Shah  
Dr. Shakira Inamdar  
Prof. Varsha Joshi  
Dr. Sadhana Natu  
Prof. Sandeep Sanap  
Prof. Prerana Suru  
Prof. Preeti Deshmukh  
Prof. Dipali Meher

# Heads of Departments

|                        |                               |
|------------------------|-------------------------------|
| • Biotechnology        | : Dr. Sanjay Kharat           |
| • Botany               | : Dr. Prachi Raval            |
| • Chemistry            | : Dr. Madhuri Kulkarni        |
| • Commerce             | : Dr. Shubhangi Joshi         |
| • Computer Science     | : Dr. Shubhangi Bhatambarekar |
| • Economics            | : Mr. Dastagir Pathan         |
| • Electronic Science   | : Mrs. Vaishali Salunke       |
| • English              | : Mrs. Shampa Chakraborty     |
| • Geography            | : Dr. Sanjay Patil            |
| • Hindi                | : Dr. Savita Sabnis           |
| • History              | : Dr. Jyoti Gagangras         |
| • Librarian            | : Dr. Sangeeta Dhamdhare      |
| • Microbiology         | : Mrs. Sneha Ogale            |
| • Mathematics          | : Mrs. Swati Kandharkar       |
| • Marathi              | : Dr. Sanskruti Awalgaonkar   |
| • Physics              | : Mrs. Varsha Joshi           |
| • Physical Education   | : Dr. Deepak Shendkar         |
| • Political Science    | : Mrs. Gauri Kopardekar       |
| • Psychology           | : Dr. Sadhana Natu            |
| • Sociology            | : Dr. Jyoti Gagangras         |
| • Statistics           | : Mrs. Swati Kandharkar       |
| • Zoology              | : Dr. Sanjay Kharat           |
| • <b>CO-ORDINATORS</b> |                               |
| • M.Com                | : Ms. Vijaya Kulkarni         |
| • B.B.A. (C.A.)        | : Mrs. Suvarna Mhasekar       |
| • B. Voc.              | : Mrs. Shweta Raichurkar      |
| • B.C.A. (Sc.)         | : Dr. Pallawi Bulakh          |



## Progressive Education Society's Modern College of Arts, Science & Commerce

Address: University Circle, Ganeshkhind, Pune-16  
 Telephone Nos.: (020) 2563 4021 and 2563 1091  
 Fax No.: (020) 2565 0931  
 Email: info@moderncollegegk.org  
 Website: www.moderncollegegk.org

**Progressive Education Society's  
MODERN COLLEGE OF ARTS, SCIENCE & COMMERCE,  
Ganeshkhind, Pune-16**  
Application for Change in subject (Last date :15<sup>th</sup> July 2019)

Name of the Student:-----

Class :----- Div :----- Receipt No.:-----

Contact No:----- E-mail Id:-----

| Sr.no | Subjects opted at the time of admission | Sr.No. | Subjects wish to change(Max. 2) |
|-------|---|--------|---------------------------------|
| 1.    |   | 1.     |                                 |
| 2.    |   | 2.     |                                 |
| 3.    |   |        |                                 |
| 4.    |   |        |                                 |
| 5.    |   |        |                                 |
| 6.    |   |        |                                 |
| 7.    |   |        |                                 |
| 8.    |   |        |                                 |
| 9.    |   |        |                                 |

**Signature of the Student**

**Signature of the Parent**

**Date:**

1.

1.

2.

2.

**Signature of the Teacher  
Principal**

**Signature of the Teacher**

**Signature of Vice**

**of Respective subject as  
per original admission form**

**whose subject wish to change**

**of Respective Faculty**

**For Office Use only**

Name of the student:-----

Class:----- Div :----- Receipt No.:-----

The subjects change approved by Vice Principal:

1.----- 2.-----

Above changes in subject is entered in software & also noted on Original Admission Form.

**Faculty Clerk**

**Head clerk**

**Office Superintendent**



**Progressive Education Society's  
MODERN COLLEGE OF ARTS, SCIENCE & COMMERCE  
Ganeshkhind, Pune-16.**

**Undertaking For Study Tour/ Field Visit / Excursion  
Year 2019-20  
Undertaking from the Student**

I, \_\_\_\_\_ (Name of the student) of class: \_\_\_\_\_  
Div: \_\_\_\_\_ Roll No. \_\_\_\_\_ hereby give my consent to join the Study Tour /  
Excursion / Field Visit arranged by college at the (Place and address of Tour): \_\_\_\_\_  
\_\_\_\_\_ on Dt: \_\_\_\_\_ or From dt: \_\_\_\_\_ To Dt: \_\_\_\_\_.

**Student's Signature:**

**Contact No :**

**E-mail Id:**

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**Undertaking from the Parent or Guardian**

I know that due care shall be taken for the above mentioned program for my ward, however I shall not hold the college responsible for any untoward mishap to my son/daughter/ward. I also assure you that my Son/Daughter/Ward will strictly follow the instruction given by college authorities during the tour.

**Parent / Guardian Name:**

**Parent/Guardian Signature:**

**Phone No:**

# Industry - Academia Interface

|   |   |  |   |
|---|---|--|---|
|    |    |    |    |
| Lila Poonawalla Foundation  | Enhance and Excel, Pune   | iGatePatni   | National Chemical Laboratories, Pune  |
|    |    |    |    |
| ICICI Bank  | Saj Test Plant  | Symantech  | D.P. Associates, Pune   |
|    |    |    |    |
| Sun Pharmaceutical Industries Ltd.  | Green Vision Life Sciences Pvt Ltd  | Harbinger System Ltd   | Golwilkar Metropolis Laboratories   |
|    |    |    |    |
| GVK Asia  | L & T Ltd.  | LOKMAT PAPERS  | LIFE INSURANCE CORPORATION OF INDIA   |
|  |  |  |  |
| Synechron   | Tech Mahindra   | PANTALOON(INDIA) LTD   | Inspiration India, Pune   |
|  |  |  |  |
| LUPIN PharmachuticalPvt.Ltd   | Persistent Systems Ltd  | MAHINDRA PRIDE SCHOOL  | QUICK HEAL  |
|  |  |  |  |
| PRAJ industries   | TATA Consultancy Services   | Agharkar Research Institute  | Logic Power Pvt. Ltd.   |
|  |  |  |  |
| Vidya Sahakari Bank Ltd. Pune   | National Aids Research Institute (NARI)   | Mahratta Chamber of Commerce Industries & Agriculture                                | National Institute of Virology  |
|  |  |  |  |
| Bicard Training Institution, Pune   | Geneombio Technologies  | Webtech Developers   | Avion Technology, INC   |



# 'Modern' Youth



# Cultural Awareness

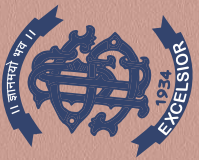




# Beyond the Classroom







प्रोग्रेसिव्ह एज्युकेशन सोसायटीचे

**मॉडर्न महाविद्यालय**

गणेशखिंड, पुणे - ४११०५३

**PROGRESSIVES EDUCATION SOCIETY'S**  
**MODERN COLLEGE**  
GANESH-KHIND, PUNE - 411055

**AFFILIATED TO PUNE UNIVERSITY**

PROGRESSIVES EDUCATION SOCIETY'S  
**MODERN COLLEGE**  
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