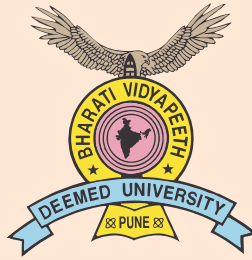


'Social Transformation Through Dynamic Education'



BHARATI VIDYAPEETH
(Deemed to be University), Pune, India

YASHWANTRAO MOHITE COLLEGE OF ARTS, SCIENCE & COMMERCE PUNE-38

Accredited with 'A+' Grade (3rd cycle) by NAAC
'A' Grade University Status by MHRD, Govt. of India
Accredited (2004) & Reaccredited (2011) with 'A' Grade by NAAC

PROSPECTUS-CUM-HANDBOOK

2018-19

SENIOR COLLEGE
(Under Graduate & Post Graduate Courses)





BHARATI VIDYAPEETH (Deemed to be University), Pune, India



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

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EDUCATIONAL CENTRES

- Pune
- New Delhi
- Kolhapur
- Karad
- Satara (Panchgani)
- Navi Mumbai
- Sangli
- Solapur
- Jawhar
- Jat

“Social Transformation Through Dynamic Education”



BHARATI VIDYAPEETH

(Deemed to be University), Pune, India

**YASHWANTRAO MOHITE COLLEGE OF
ARTS, SCIENCE & COMMERCE**

Erandwane, Pune- 411 038

*Accredited with 'A+' Grade (2017) by NAAC
'A' Grade University Status by MHRD, Govt. of India
Accredited (2004) & Reaccredited (2011) with 'A' Grade by NAAC*

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PRINCIPAL

Yashwantrao Mohite College, Pune

PROSPECTUS-CUM-HANDBOOK

2018 - 19

SENIOR COLLEGE

(Under Graduate & Post Graduate Courses)

Price Rs. 300/-

BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), PUNE, INDIA
YASHWANTRAO MOHITE COLLEGE OF
ARTS, SCIENCE & COMMERCE

Erandwane, Pune- 411 038

VISION, MISSION & OBJECTIVES / GOALS OF THE COLLEGE

Vision:

- ‘To be a World Class University for Social Transformation through Dynamic Education’

Mission:

- To provide inclusive borderless access to higher education and vocational education based on merit;
- To offer varied professional, technical, vocational and general education programmes to meet the changing and diverse needs of society in a global context;
- To provide quality higher education for liberation of mind and empowerment of hands;
- To promote quality research in diverse areas of development and engage in application of knowledge for community development;
- To develop national and international networks with industry, service sector and other academic and research institutions to meet the expectations of various stakeholders;
- To promote extensive use of ICT for enrichment of teaching, learning and for effective governance;
- To make quality an integral part of all University operations by promoting innovative practices.

Objectives / Goals :

- To inculcate a **Value System** among students related to non-violence, truth, and tolerance for religion, secularism, social justice, environmental awareness, scientific temper and like.
- To generate employment opportunities for the youth by fostering **Global Competencies** among them.
- To develop scientific attitude, technology orientation and practical skills among the students through the extensive **Use of Technology**.
- To contribute to **National Development** by creating social and economic equality through upliftment of the weaker section of the society.
- To promote **Quest for Excellence** by creating just challenges before the young talent.

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1: INTRODUCTION

BHARATI VIDYAPEETH

Bharati Vidyapeeth, the parent body of **Bharati Vidyapeeth (Deemed to be University)** was established on 10th May, 1964 by **Dr. Patangrao Kadam** with the objective of bringing about intellectual awakening and allround development of the people of our country through education.

Bharati Vidyapeeth is now a leading educational institution in the country, which has created a history by establishing within a short span of 53 years or so 180 educational institutions imparting education from the pre-primary stage to post graduate stage. Our colleges and institutions of higher education impart education in different disciplines including Medicine, Dentistry, Ayurved, Homoeopathy, Nursing, Arts, Science, Commerce, Engineering, Pharmacy, Management, Social Sciences, Law, Environmental Science, Architecture, Hotel Management and Catering Technology, Physical Education, Computer Science, Library Science, Information Technology, Biotechnology & Agriculture, Performing Arts etc.

These educational institutions which have achieved an acclaimed academic excellence cater to the educational needs of thousands of students coming from different parts of India and also abroad. Our teaching faculty includes highly qualified, experienced, dedicated and student-caring teachers. These educational institutions are located at various places viz. Pune, Navi Mumbai, Kolhapur, Solapur, Sangli, Karad, Panchgani, Jawhar and New Delhi. The spectacular success achieved by Vidyapeeth is mainly a creation of unusual foresight, exceptionally dynamic leadership and able guidance of the founder of Vidyapeeth, **Dr. Patangrao Kadam**. It has been our constant endeavour to impart high quality education and training to our students and therefore it is no wonder that our institutions have become nationally known for their academic excellence. In recognition of the academic merit achieved by its institutions and potential for development which they have, the Department of Human Resource Development, Government of India and the University Grants Commission of India have accorded the status of a deemed to be university to Bharati Vidyapeeth with its twenty nine constituent units.

Besides these 180 educational institutions, Bharati Vidyapeeth has also been successfully running a Co-operative Bank, Co-operative Consumer Stores, Co-operative Poultry, Co-operative Sugar Factory, Co-operative Spinning Mill, Charitable Hospitals and Medical Research Centre and the like.

1.2 : BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), PUNE, INDIA

*Accredited (3rd cycle) with 'A+' Grade by NAAC
'A' Grade University Status by MHRD, Govt. of India
Accredited (2004)& Reaccredited (2011)with 'A' Grade by NAAC*

Bharati Vidyapeeth (Deemed to be University) came into existence in April, 1996, when the Ministry of Human Resource Development, Government of India, in exercise of the powers under section 3 of the University Grants Commission Act conferred the status of University to 12 institutions of Bharati Vidyapeeth on the advice of the University Grants Commission, the apex body concerned with higher education in India which made assessment of the academic excellence achieved by the institutions through a committee of experts. Subsequent to that, the Government of India, vide its various notifications brought several other institutions of Bharati Vidyapeeth under the ambit of this University. As on today the University is having 29 constituent units conducting study programmes in different disciplines, including Modern Medicine, Dentistry, Ayurved, Homoeopathy, Nursing, Arts, Science, Commerce, Engineering, Pharmacy, Management, Social Sciences, Law, Environment Science, Architecture, Hotel Management Tourism and Catering Technology, Physical Education, Computer Science, Library Science and Information Technology etc.

Bharati Vidyapeeth, the parent body of Bharati Vidyapeeth University was established in May, 1964 by Dr. Patangrao Kadam with the objective of bringing about intellectual awakening and all round development of people of our country through education. Bharati Vidyapeeth is now a leading educational institution in the country, which has created history by establishing within a span of 50 years, 180 educational institutions imparting education from the pre-primary to the post graduate stage.

These educational institutions which have achieved an acclaimed academic excellence cater to the educational needs of thousands of students coming from different parts of India and abroad. Our teaching faculty includes highly qualified, experienced, dedicated and student-caring teachers. These educational institutions are located at various places viz. Pune, Navi Mumbai, Kolhapur, Solapur, Sangli, Karad, Panchagani, Jawhar and New Delhi. The spectacular success achieved by Vidyapeeth is mainly the result of unusual foresight, exceptionally dynamic leadership and able guidance of the founder of Vidyapeeth, Dr. Patangrao Kadam. It has been our constant endeavour to impart high quality education and training to our students and we have achieved success in these pursuits so that our institutions have earned reputation and high acclaim for their high academic standard.

The University was accredited by the National Assessment and Accreditation Council (NAAC) with the prestigious 'A' grade in 2004. Once again the university is reaccredited with 'A' grade in 2011. In March 2017, under the third cycle of assessment, the university is accredited with 'A+' grade by NAAC. The Ministry of HRD Govt. of India has awarded 'A' Grade status to the University. Besides, the Institute of Management and Research, New Delhi, Poona College of Pharmacy, Pune and College of Engineering, Pune have received accreditation for their various courses by the National Board of Accreditation.

One of the distinctive features of this University is that it has three self-financing research institutes, which are involved in sophisticated researches in health related sciences, pharmaceutical sciences and social sciences.

The University has established its academic reputation so much that it is being preferred for admission by the students not only from India, but from abroad. At present there are about 734 overseas students coming from 45 countries.

It had been a long standing dream of our founder to get the status of a University to Bharati Vidyapeeth. That dream was realised when the Ministry of Human Resource Development (Department of Education, Government of India) on the recommendations of the University Grants Commission, New Delhi through their notification No. F.9-15/95-U.3 dated 26th April, 1996 declared a cluster of institutions of Bharati Vidyapeeth at Pune as Deemed to be University.

Present Constituent Colleges of the University

1. Medical College, Pune
2. Dental College & Hospital, Pune
3. College of Ayurved, Pune
4. Homoeopathic Medical College, Pune
5. College of Nursing, Pune
6. Yashwantrao Mohite College of Arts, Science and Commerce, Pune
7. New Law College, Pune
8. Social Sciences Centre (M.S.W.), Pune
9. Yashwantrao Chavan Institute of Social Science Studies & Research, Pune
10. Research and Development Centre in Pharmaceutical Sciences & Applied Chemistry, Pune
11. College of Physical Education, Pune
12. Institute of Environment Education & Research, Pune
13. College of Engineering, Pune
14. Poona College of Pharmacy, Pune
15. Institute of Management & Entrepreneurship Development, Pune.
16. Rajiv Gandhi Institute of Information Technology & Bio-Technology, Pune

17. Interactive Research School for Health Affairs, Pune.
18. Medical College & Hospital, Sangli.
19. Dental College & Hospital, Navi Mumbai.
20. Institute of Management & Research, New Delhi;
21. College of Architecture, Pune;
22. Institute of Hotel Management & Catering Technology, Pune;
23. Yashwantrao Mohite Institute of Management, Karad;
24. Institute of Management, Kolhapur;
25. Institute of Management & Rural Development Administration, Sangli.
26. Abhijit Kadam Institute of Management and Social Sciences, Solapur.
27. Dental College & Hospital, Sangli
28. College of Nursing, Sangli
29. College of Nursing, Navi Mumbai.

Thus, there are 29 institutions which are the constituent units of Bharati Vidyapeeth Deemed University.

As is widely known, the Central Govt. had constituted a high power Task Force consisting of very eminent and experienced academicians to evaluate the academic performance of deemed universities in the country. The Task Force appreciated the report submitted by the University and also the presentation made by Prof. Dr. Shivajirao Kadam Vice Chancellor. The Task Force noted the University's excellent performance with regard to teaching-learning process, research, scientific publications by faculty and their impact and potential, innovative academic programmes, enriched infrastructure and recommended to the Ministry of Human Resources Development, Govt. of India to award 'A' Grade status. The Central Government has accepted the recommendation of the Task Force and awarded 'A' Grade status to this University.

Ours is the only University established under section 3 of the U.G.C. Act having under its umbrella institutions of diverse disciplines of professional, technical and traditional categories such as Medicine, Dentistry, Physical Education, Natural and Physical Sciences, Social Sciences, Commerce, Law and Humanities, Pharmaceutical Sciences, Management Studies, Engineering and Technology. The UGC has recognised this University u/s 12 'B' of UGC Act.

This University is a Member of Association of Indian Universities and also a member of Association of Commonwealth Universities.

1.3 : YASHWANTRAO MOHITE COLLEGE OF ARTS, SCIENCE & COMMERCE, PUNE

Bharati Vidyapeeth, the parent institution has created a landmark in the history of higher education by establishing three institutes in June 1978 and Yashwantrao Mohite College is first of them. At present, the college is one of the constituent units of Bharati Vidyapeeth Deemed University. We have pleasure to introduce ourselves as one of the very few colleges in India which has been accredited in 2004 and re-accredited in 2011 with 'A' grade and accredited (3rd cycle) with 'A+' grade in 2017 by the National Assessment and Accreditation Council, Bangalore.

The college offers under graduate and post graduate programmes in various disciplines of Arts, Science, Commerce and Computer Science leading to B.A., B.Sc., B.Sc. (Computer Science), B.Com., M.A. (English), M.Sc. (Physics), M.Sc. (Analytical Chemistry), M.Sc. (Organic Chemistry), M.Sc. (Microbiology), M.Sc. (Computer Science) and M.Com. degrees. The college is recognised Research Centre for Ph.D. degrees in English, Economics, Marathi, Geography, Sociology, Political Science, Physics, Chemistry, Botany, Microbiology, Mathematics, Computer Science and Commerce.

The special feature of the college is that along with degree courses, the College also conducts two diploma programmes: (1) Diploma in Banking and (2) Diploma in Marketing, which have proved of great help to the students for their placements.

In addition, two UGC sponsored Career Oriented Courses in (1) Spoken English (2) Identification and Preservation of Medicinal Plants are introduced for enhancing the employability skills of the students.

The college promotes national integration by admitting the students from 29 states and has attained international status by accommodating the students from 24 countries. The welfare of the students is always the prime concern of the college. Several activities are organized to support and enhance the capabilities of the students. Publication of the annual number Yashobharati, arranging Cultural Festival '*Sanskriti*' and conducting National Level General Knowledge Test, as well as organization of National / International Seminars and workshops every year are some of the features of the college.

The college is honoured with 'Best NSS UNIT Award' and the Programme Officer received 'Best NSS Programme Officer Award' as well as 5 students with 'Best NSS Volunteer Award' by Government of Maharashtra. The sports department of the college has created landmarks in the history. Sixteen of our students are felicitated with the highest honour in the field of sports offered by the state government i. e. 'Shiv Chhatrapati Sports Award' and the college has contributed to several National teams by participation of the students.

The college also provides the hostel facilities to both **boys and girls** students. The facilities like state-of-art laboratories, excellent library, health care centre, seminar hall, English language laboratory, Commerce laboratory, indoor and outdoor game facilities and gymnasium are provided to the students.

2 : ADMISSION TO THE COLLEGE (UG)

- 1) A student seeking admission to the college in the first year of the B.A./B.Com./B.Sc./B.Sc. (Computer Sc.) course will have to apply to the college in the prescribed form immediately after the declaration of H.S.C. examination result.
- 2) Students who were in the college during the previous year will have to apply for admission to the college within six days from the declaration of the results of the university examination.
- 3) Applications received after the prescribed date for admission will not be considered.
- 4) International students seeking admission to the college will have to apply in the prescribed form alongwith the provisional Eligibility Certificate issued by the Registrar, Bharati Vidyapeeth Deemed University, Pune and NO OBJECTION CERTIFICATE from the Central Government alongwith visa & pass port.
- 5) Students from other universities in India seeking admission to the college will have to apply in the prescribed form. They will have to apply for Eligibility Certificate to the Registrar, Bharati Vidyapeeth Deemed University in the prescribed form. They will have to submit the following documents alongwith the application for Eligibility Certificate.
 - a) Migration Certificate
 - b) Passing Certificate
 - c) Attendance Certificate
 - d) Transfer Certificate
 - e) Statement of Marks of previous examination
 - f) Character Certificate
 - g) Medical and H.I.V. Test (for international students)
- 6) Admission will be provisional till the student produces final eligibility certificate from Bharati Vidyapeeth Deemed University.
- 7) Please retain a set of xerox copies you are submitting to college.

2.1 : ELIGIBILITY FOR ADMISSION TO FIRST YEAR B.A. / B.Com. / B.Sc. / B.Sc. (Computer Science)

1. Eligibility for admission to B.A. degree programme:

A candidate who has passed the Higher Secondary School Certificate Examination of the Maharashtra State Board or an equivalent examination of any other statutory Board or University with English as a passing subject will be admitted to the first year of this course.

2. Eligibility for admission to B.Com. degree programme:

A candidate who has passed the Higher Secondary School Certificate Examination in Commerce or Science of the Maharashtra State Secondary and Higher Secondary Board or an equivalent of any other Statutory Board or University with English as a passing subject will be admitted to the first year of this course.

3. Eligibility for admission to B.Sc. degree programme:

- Higher Secondary School Certificate Examination (10+2) of the Maharashtra State Board or its equivalent examination of any other statutory Board/University with English and with any three Science subjects such as (i) Physics (ii) Chemistry (iii) Biology (iv) Mathematics (v) Geography (vi) Geology etc
- Higher Secondary School Certificate Examination (10+2) with English and with any one of the following vocational subjects in technical group of +2 levels.
- Diploma in Pharmacy, Diploma in Engineering (polytechnic) or its equivalent examination recognized by MBTE, Mumbai or its equivalent of any other statutory Board or University.

Subject code	Subject
79	Auto Electrical
A1	Electrical Maintenance
A2	Mechanical Maintenance
A4	General Civil Engg.
C2	Electronics
C3	Chemical Plant Operation
C5	Elementary Laboratory Technology

Subject code	Subject
D9	Computer Science
J1/J2/J3	Electronics Technology
J4/J5/J6	Maintenance & Repairs of Electrical Domestic Appliances
K1/K2/K3	Auto Engg. Technician
P1/P2/P3	Medical Lab. Technician
P4/P5/P6	X-ray Technician
P7/P8/P9	Ophthalmic Technician
T1/T2/T3	Repair, Maintenance & Rewinding of Electrical Motors.

4. Eligibility for admission to B.Sc. Computer Science degree programme:

- A candidate who has passed the Higher Secondary School Certificate Examination of the Maharashtra State Board or Higher Secondary Examination of its equivalent of any other statutory Board or University and has passed in English and in two Science subjects (i) Physics (ii) Mathematics shall be eligible for admission to the First year B.Sc. (Computer Science) Degree course.
- Candidate who has passed H.S.C. examination (10+2) with English and any one of the following vocational subjects is also eligible for admission to the F.Y.B.Sc. (Computer Science) course.

Subject code	Subject
97	Information Technology
D9	Computer Science
C2	Electronics
J1/J2/J3	Electronics Technology

- Also student who has completed Diploma course in Engineering (Polytechnic) Computer Science, Electronics and Information Technology or its equivalent examination recognized by MBTE, Mumbai or its equivalent of any other statutory Board or University.

3 : COURSE STRUCTURE (UG PROGRAMME) (CBCS 2018 COURSE) (To be implemented from June 2018)

3.1 : Bachelor of Arts (B.A.) :

Course Structure and scheme of credits of B.A. Course

The B.A. programme will be of three years duration consisting of six semesters and of minimum 152 Credits: Semester I (24Credits), Semester II (26 Credits), Semester III (26 Credits), and Semester IV (26 Credits) Semester V (26 Credits), and Semester VI (24 Credits). In all six Semesters, there will be six theory courses (Core and Elective Courses) of 04 credits each and one theory course (Ability Enhancement course OR Skill Enhancement course) in Semester II, Semester III, Semester IV and Semester V of 02 credits each. All 36 Core and Elective Courses papers will have 100 marks each out of which 40 marks will be for Internal Assessment and 60 marks for University Examination. The Ability Enhancement courses OR Skill Enhancement Courses will have 50 marks each out of which 20 marks will be for Internal Assessment and 30 marks for University Examination. Thus B.A. degree examination, six Semesters shall be of 3800 marks and of 152 credits altogether. The following shall be the course structure:

F.Y.B.A.: (Semester I & II)

A student joining the First year B.A. course shall offer six subjects mentioned below. He/she is advised to select the subjects of First Semester very carefully because he/she has to select subjects for the following semesters from the subjects offered at First Semester.

- 1) Subject in Core course is compulsory.
- 2) A student has to offer five subjects from Elective Courses given above.

F.Y.B.A. Semester I			F.Y.B.A. Semester II		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Course	A101	1. Compulsory English – I	Core Course	A201	1. Compulsory English – II
Elective Courses	Any Five from the following:		Elective Courses	Any Five from the following:	
	A111	1. English (G1) – I		A211	1. English (G1) – II
	A121	2. Economics (G1) – I		A221	2. Economics (G1) – II
	A131	3. Marathi (G1) – I		A231	3. Marathi (G1) – II
	A141	4. Geography (G1) – I		A241	4. Geography (G1) – II
	A151	5. Political Science (G1) – I		A251	5. Political Science (G1) – II
	A161	6. Sociology (G1) – I		A261	6. Sociology (G1) – II
			Skill Enhancement Course	SEC21	Basics of Information Technology

3.2 : Bachelor of Science (B.Sc.)

F.Y.B.Sc.(Sem. I and II)

CORE SELECTIVE GROUPS

(SELECT ANY ONE GROUP FROM THE FOLLOWING)

Group I :- Physics, Chemistry, Mathematics and Statistics (PCMS)

Group II :- Physics, Mathematics, Statistics and Computer Application (PMSCA)

Group III :- Physics, Chemistry, Botany and Zoology (PCBZ)

Group IV :- Chemistry, Botany, Zoology and Microbiology (CBZM)

Group V: - Chemistry, Zoology, Microbiology and Geography (CZMG)

F.Y.B.Sc. Semester I			F.Y.B.Sc. Semester II		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Course		Physics	Core Course		Physics
	P – 11	Mechanics & Properties of Matter		P – 21	Kinetic Theory & Thermodynamics
	P – 12	Modern Physics		P -22	Electricity & Magnetism
	P – 13	Practical course – I		P – 23	Practical course - II
Core Course		Chemistry	Core Course		Chemistry
	C-11	Physical and Inorganic Chemistry – I		C-21	Physical and Inorganic Chemistry – II
	C-12	Organic and Inorganic Chemistry – I		C-22	Organic and Inorganic Chemistry - II
	C -13	Practical course – I		C – 23	Practical Course-II
Core Course		Botany	Core Course		Botany
	B –11	Plant diversity and utilization of plants – I		B –21	Plant diversity and utilization of plants – II
	B –12	Cell biology		B –22	Industrial Botany-I
	B – 13	Practical course - I		B – 23	Practical course – II
Core Course		Zoology	Core Course		Zoology
	Z – 11	Animal systematic and Functional Anatomy of Non-chordates-I		Z – 21	Functional Anatomy of Chordates-I
	Z –12	Cell Biology and Genetics		Z – 22	Applied zoology (Vermiculture and Sericulture)
	Z- 13	Practical course - I		Z- 23	Practical course – II
Core Course		Microbiology	Core Course		Microbiology
	MB-11	Introduction to Microbiology		MB-21	Microbial Nutrition, Growth and control
	MB-12	Structure of Prokaryotes and Eukaryotes		MB-22	The diversity of Microbial World
	MB-13	Practical course - I		MB- 23	Practical course – II

F.Y.B.Sc. Semester I			F.Y.B.Sc. Semester II		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Course		Mathematics	Core Course		Mathematics
	M-11	Algebra		M-21	Analytical Geometry
	M-12	Calculus		M-22	Integral Calculus and Differential Equations
	M – 13	Practical course - I		M – 23	Practical course – II
Core Course		Statistics	Core Course		Statistics
	S-11	Descriptive Statistics - I		S-21	Descriptive Statistics-II
	S-12	Discrete Probability and Probability Distributions - I		S-22	Discrete Probability and Probability Distributions- II
	S- 13	Practical course - I		S- 23	Practical course – II
Core Course		Geography	Core Course		Geography
	G -11	Physical Geography - I		G -21	Physical Geography – II
	G – 12	Climatology - I		G – 22	Oceanography
	G- 13	Practical course - I		G- 23	Practical course – II
Core Course		Computer Application	Core Course		Computer Application
	CA-11	Computer Fundamentals		CA-21	Operating Environment
	CA-12	Programming in C -I		CA-22	Programming in C -II
	CA- 13	Practical course - I		CA- 23	Practical course – II
			Core Course	This course is compulsory for all the students.	
				UG-SEC-21	Renewable Energy And Energy Harvesting

3.3 : Bachelor of Computer Science B.Sc. (Computer Science)

F.Y.B.Sc. (Computer Science): (From the Academic Year 2018-19)

F.Y.B.Sc. Semester I			F.Y.B.Sc. Semester II		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Course	CS -11	Introduction to RDBMS	Core Course	CS -21	RDBMS using oracle
	CS -12	Programming in C - I		CS -22	Programming in C - II.
	CS -13	Mathematical Foundation of Computer Science		CS -23	Graph Theory
	CS -14	Algebra -I		CS -24	Algebra-II
	CS -15	Principles of Analog Electronics - I		CS -25	Principles of Analog Electronics - II
	CS-16	Principles of Digital Electronics -I		CS -26	Principles of Digital Electronics -II
Core Practical	CS PI	Computer Science Practical - I	Core Practical	CS PIII	Computer Science Practical - III
	CS PII	Computer Science Practical - II		CS PIV	Computer Science Practical - IV
	CS EI	Electronics Practical -I		CS EII	Electronics Practical -II
Elective Courses	Any Two from the following:		Elective Courses	Any Two from the following:	
	CS -17	Computer Oriented Statistical Techniques -I		CS -27	Computer Oriented Statistical Techniques - II
	CS-18	Compulsory English -I		CS-28	Compulsory English -II
	CS-19	Elementary Algorithmics		CS-29	Operating Environment
			This paper is compulsory for all the students:		
			Skill Enhance ment course	UGSEC -21	HTML Programming

3.4 : Bachelor of Commerce (B.Com.)

1. Course Structure and Scheme of Credits of B. Com. Course:

The B. Com. programme will be of three years duration consisting of six semesters and of minimum 160 credits: Semester I (28 Credits), Semester II (30 Credits), Semester III (26 Credits), and Semester IV (26 Credits) Semester V (26 Credits), and Semester VI (24 Credits). In Semester I and II there will be seven theory papers (Core and Elective Courses) and Semester III to VI, there will be six theory papers (Core and Elective Courses) of 4 credits each. In addition, there will be one theory course (Ability enhancement or skill in enhancement course) each in Semester II, Semester III and Semester IV and Semester V of 2 credits each. All 38 (Core and Elective Courses) papers will have 100 marks each out of which 40 marks will be for Continuous Assessment and 60 marks for University Examination. All Ability enhancement or skill in enhancement course will have 50 marks each out of which 20 marks will be for Continuous Assessment and 30 marks for University Examination. Thus, B. Com. Degree examination, six Semesters shall be of 4000 marks and of 160 credits altogether.

Sr.	Semester	Total Credits	Total Marks
1	Semester I	28	700
2	Semester II	30	750
3	Semester III	26	650
4	Semester IV	26	650
5	Semester V	26	650
6	Semester VI	24	600
	Grand Total	160	4000

A student joining B. Com. Course should note that subjects in Core Courses are compulsory. In addition, he has to offer any subject or any one group from the Elective Courses. Fundamental Course is compulsory for all the students.

The following shall be the course structure:

F.Y.B.Com. Semester I			F.Y.B.Com. Semester II		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Courses	C101	Compulsory English I	Core Courses	C201	Compulsory English II
	C108	Financial Accounting I		C208	Financial Accounting II
	C104	Business Economics I		C204	Business Economics II
	C105	Geography of Resources I		C205	Geography of Resources II
Elective Courses	To choose any one of the following:		Elective Courses	To choose any one of the following:	
	C106	Business Mathematics & Statistics I		C206	Business Mathematics & Statistics II
	C107	Computer Application in Business I		C207	Computer Application in Business II
	To choose any one of the following:			To choose any one of the following:	
	C111	Corporate Law I		C211	Corporate Law II
	C121	Banking and Insurance I		C221	Banking and Insurance II
	C131	Marketing I		C231	Marketing II
	To choose any one of the following:			To choose any one of the following:	
	C102	Additional English I		C202	Additional English II
	C103	Marathi I		C203	Marathi II
			Skill Enhance ment Course	SEC 21	Basics of Information Technology

4 : SCHEME OF EXAMINATION (2018 Course)

FOR ALL UNDERGRADUATE PROGRAMMES

● University Terms

The dates for the commencement and conclusion of the First and the Second terms shall be fixed by the University authorities. The terms can be kept by students, who have registered their names with the University.

● Scheme of Examination

The assessment of students in the academic session 2018-19 and thereafter shall be based on-

- (a) University Examinations (UE)
- (b) Internal Assessment (IA)
- (c) Choice Based Credit System (CBCS) and
- (d) Semester Grade Point Average (SGPA) and Cumulative Grade Point Average System (CGPA).

For each paper of 100 marks, there will be Internal Assessment of 40 marks and the University Examination of 60 marks/3 hours duration at the end of each semester. The 4 credits will be given to a student who secures at least 40% of marks allotted to each paper. A candidate who does not pass the examination in any subject or subjects in one semester will be permitted to reappear in such failed subject or subjects along with the papers of following semesters.

The Internal Assessment (IA) for each paper will be of 40 marks. The Internal Assessment may be in the forms as follows:

- | | |
|---|----------|
| a) Attendance | 10 Marks |
| b) Home Assignment/Tutorial/Test/Presentation | 15 Marks |
| c) Mid Semester Examination | 15 Marks |

● Practical : (Applicable to Commerce Faculty only)

There shall be compulsory practical examination of 10 marks for B.Com. degree for all Elective Courses at the end of each semester but before UE. The practical examination will be based on the following:

- a) Journal : 5 Marks
- b) Oral : 5 Marks

Students should note that there is separate heads of passing in practical examination for B. Com.

The 60 marks in UE of the Elective Courses having practical will be converted into 50 marks.

● Diploma in Marketing and Diploma in Banking (along with to B.Com. Degree): (Applicable to Commerce Faculty only)

A student admitted for B. Com. Semester I and opted for Marketing or Banking and Insurance as one of the elective courses, shall enroll himself/herself for Diploma in

Marketing or Diploma in Banking as the case may be. He/She has to apply for Diploma in the prescribed form. The duration of the Diploma is of three years and can be completed along with with B. Com. degree. The medium of instruction and examination shall be English.

For successful completion of the Diploma -

1. A student has to complete all practicals in Semester I, II, III and IV while in Semester V and VI he/she has to complete project report under the supervision of the concerned subject teacher.
2. The evaluation of project and viva voce examination shall be done by marks only and then it will be converted into grade in the ten point scale and awarded the same to the student.
3. A student shall have to obtain minimum 40% marks in project evaluation and viva voce taken together.

After successful completion of the diploma course, separate Diploma will be conferred on the students in the convocation of the University.

- **Career Oriented Courses**

- a. **Career Oriented Courses in Spoken English** (Applicable to Arts & Commerce Faculty only)

A student admitted to B.A. and B.Com. Semester-I shall enroll for Career Oriented Course in Spoken English. He/She has to apply for this certificate course in the prescribed form. The duration of this course is of one year and can be completed along with B.A. and B.Com. degree. The medium of instruction and evaluation shall be English.

- b. **Career Oriented Courses in Identification and Preservation of Medicinal Plants** (Applicable to Science Faculty only)

A student admitted to B.Sc. Semester-I shall enroll for Career Oriented Course in Identification and Preservation of Medicinal Plants. He/She has to apply for this certificate course in the prescribed form. The duration of this course is of one year and can be completed along with B.Sc. degree. The medium of instruction and evaluation shall be English.

- **Standard of Passing**

For all courses, both UE and IA constitute separate heads of passing. In order to pass in such courses and to earn the assigned credits, a student must obtain a minimum grade point of 5.0 (40% marks) at UE and also a minimum grade point of 5.0 (40% marks) at IA.

A student who fails at UE in a course has to reappear only at UE as a backlog candidate and clear the head of passing. Similarly, a student who fails in a course at IA has to reappear only at IA as a backlog candidate and clear the head of passing.

The 10-point scale Grades and Grade Points according to the following table.

Range of Marks (Out of 100)	Grade	Grade Point
$80 \leq \text{Marks} \leq 100$	O	10
$70 \leq \text{Marks} < 80$	A+	9
$60 \leq \text{Marks} < 70$	A	8
$55 \leq \text{Marks} < 60$	B+	7
$50 \leq \text{Marks} < 55$	B	6
$40 \leq \text{Marks} < 50$	C	5
Marks < 40	D	0

The performances at UE and IA will be combined to obtain the Grade Point Average (GPA) for the course. The weightage for performance at UE and IA shall be 60% and 40% respectively.

GPA is calculated by adding the UE marks out of 60 and IA marks out of 40. The total marks out of 100 are converted to grade point, which will be the GPA.

● **Formula to Calculate Grade Points (GP)**

Suppose that 'Max' is the maximum marks assigned for an examination or evaluation based on which GP will be computed. In order to determine the GP, Set $x = \text{Max} / 10$ (since we have adopted 10-point system). Then GP is calculated by the formulas shown as below.

Range of Marks at the evaluation	Formula for the Grade Point
$8x \leq \text{Marks} \leq 10x$	10
$5.5x \leq \text{Marks} < 8x$	Truncate (Marks/x) +2
$4x \leq \text{Marks} < 5.5x$	Truncate (Marks/x) +1

Two kinds of performance indicators, namely, the Semester Grade Point Average (SGPA) and the Cumulative Grade Point Average (CGPA) shall be computed at the end of each term. The SGPA measures the cumulative performance of a student in all the courses in a particular semester, while the CGPA measures the cumulative performance in all courses since his/her enrolment to the course. The CGPA of learner when he/she completes the programme is the final result of the learner.

The SGPA is calculated by the formula $\text{SGPA} = \frac{\sum C_k \times \text{GP}_k}{\sum C_k}$ where C_k is the credit-value assigned to a course and GP_k is the GPA obtained by the student in the course. In the above, the sum is taken over all the courses that the student has undertaken for the study during the semester, including those in which he/she might have failed or those for

which he/ she remained absent. The SGPA shall be calculated up to two decimal place accuracy.

The CGPA is calculated by the formula $CGPA = \frac{\sum Ck \times GPk}{\sum Ck}$, where Ck is the credit-value assigned to a course and GPk is the GPA obtained by the student in the course. In the above, the sum is taken over all the courses that the student has undertaken for the study from the time of his/her enrolment to the course and also during the semester for which CGPA is calculated, including those in which he/she might have failed or those for which he/she remained absent. The CGPA shall be calculated up to two decimal place accuracy.

The Formula to compute equivalent percentage marks for specified CGPA

% Marks (CGPA) =	$10 \times CGPA - 10$	if $5.00 \leq CGPA \leq 6.00$
	$5 \times CGPA + 20$	if $6.00 \leq CGPA \leq 8.00$
	$10 \times CGPA - 20$	if $8.00 \leq CGPA \leq 9.00$
	$20 \times CGPA - 110$	if $9.00 \leq CGPA \leq 9.50$
	$40 \times CGPA - 300$	if $9.50 \leq CGPA \leq 10.00$

● Award of Honours

A student who has completed the minimum credits specified for the programme shall be declared to have passed in the programme. The final result will be in terms of letter grade only and is based on the CGPA of all courses studied and passed. The criteria for the award of honours are given below.

Range of CGPA	Equivalent Range of Marks (%)	Final Grade	Performance Descriptor	Final Class
$9.50 \leq CGPA \leq 10.00$	$80 \leq \text{Marks} \leq 100$	O	Outstanding	First Class with Distinction
$9.00 \leq CGPA \leq 9.49$	$70 \leq \text{Marks} < 80$	A+	Excellent	
$8.00 \leq CGPA \leq 8.99$	$60 \leq \text{Marks} < 70$	A	Very Good	First Class
$7.00 \leq CGPA \leq 7.99$	$55 \leq \text{Marks} < 60$	B+	Good	Higher Second Class
$6.00 \leq CGPA \leq 6.99$	$50 \leq \text{Marks} < 55$	B	Average	Second Class
$5.00 \leq CGPA \leq 5.99$	$40 \leq \text{Marks} < 50$	C	Satisfactory	Pass Class
CGPA Below 5.00	Marks Below 40	F	Fail	Fail

● Gracing

The gracing shall be done as per existing rules of the University.

● Verification and Revaluation

There is a provision for verification and revaluation of the result. A student can apply for the verification and revaluation of the result within two weeks from the declaration of the results with the prescribed fee. The verification and revaluation shall be done as per the existing rules of the University.

- **Rule for ATKT**

A candidate shall be permitted to proceed further from the First Semester up to Fourth Semester irrespective of his/her failure in any of the Semester examinations subject to the condition that the candidate should register for all the backlog subjects of earlier semesters along with current (subsequent) semester subjects. However, he/she should have clear all the papers at Semester I & II when he/she is admitted to Semester V.

- **Span Period to Qualify a Degree**

As per the guidelines issued by the University Grants Commission (UGC) on “Determination of Uniform Span Period within which a student may be allowed to Qualify for a Degree”, a student has to qualify for a degree within the period prescribed by the UGC. If a student could not, he/she will be allowed two more years beyond the prescribed period.

In exceptional cases, further extension of one more year may be considered by the University. This is applicable to those students who will be admitted from the academic year 2016-17 onwards as per the Notification (No. 775 dated 14/12/2015) issued by Bharati Vidyapeeth University.

- **Format of the Transcript**

A student will be given a transcript indicating his/her performance at the end of every semester examination. The transcript shall be given as per the following table along with other necessary details.

Course No.	Course Name	No. of Credits	University Examination		Internal Assessment		Grade Point Average	Result
			Grade	Grade Point	Grade	Grade Point		
1								
2								
3								
4								
5								
6								
Total Cumulative Credits Completed			SGPA		CGPA		Equivalent Marks (%)	
Note : GPA is calculated by adding the UE marks out of 60 and IA marks out of 40. The total marks out of 100 are converted to Grade Point, which will be the GPA.								

5 : COURSE STRUCTURE (UG PROGRAMME) **(CBCS 2016 COURSE)** **(Only for Second & Third Year)**

5.1 : Bachelor of Arts (B.A.)

1. Course Structure and scheme of credits of B.A. Course:

The B.A. programme will be of three years duration consisting of six semesters and of minimum 150 Credits: Semester I (26 Credits), Semester II (24 Credits), Semester III (26 Credits), and Semester IV (24 Credits) Semester V (26 Credits), and Semester VI (24 Credits). In all six Semesters, there will be six theory papers (Core and Elective Courses) of 04 credits each and one theory course (Foundation Course) each in Semester I, Semester III and Semester V of 02 credits each. All 36 Core and Elective Courses papers will have 100 marks each out of which 40 marks will be for Internal Assessment and 60 marks for University Examination. All Foundation Courses will have 50 marks each out of which 20 marks will be for Internal Assessment and 30 marks for University Examination. Thus B.A. degree examination, six Semesters shall be of 3750 marks and of 150 credits altogether. The following shall be the course structure:

S.Y.B.A.:

A student studying at Semester III & IV for the B.A. Degree shall study the subject as given below:

- 1) Compulsory English from Core courses.
- 2) He/she has to select one group as a special subject from the given Core courses groups and which is included in the subjects offered at the First Semester. There will be three papers of special subject.
- 3) He/she has to select two general subjects i.e. First paper in each Special Group and which is not included in Core courses and from the subjects offered at the First Semester.

ENVIRONMENT STUDIES:

As per the order of Honourable Supreme Court of India, this course is compulsory for every undergraduate student. The college is implementing this module course in Environment Studies in the second year of all degree courses. There will be 02 lectures per week for this course. The examination will be conducted at the end of Semester IV and will carry 50 marks. These marks will be converted into the grades accordingly. These grades will be mentioned in the degree Grade Sheet. It is mandatory for every student to pass this course. If any student fails in this course, the result of his/her degree course will be withheld by the university

S.Y.B.A.

S.Y.B.A. Semester III			S.Y.B.A. Semester IV		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Compulsory	A301	1. Compulsory English – I	Core Compulsory	A401	1. Compulsory English – II
Core Courses	Any One group from the following:		Core Courses	Any One group from the following:	
	A) Special Level: English			A) Special Level: English	
	A311	1. English (G2) – I		A411	1. English (G2) – II
	A312	2. English (S1) – I		A412	2. English (S1) – II
	A313	3. English (S2) – I		A413	3. English (S2) – II
	B) Special Level: Economics			B) Special Level: Economics	
	A321	1. Economics (G2) – I		A421	1. Economics (G2) – II
	A322	2. Economics (S1) – I		A422	2. Economics (S1) – II
	A323	3. Economics (S2) – I		A423	3. Economics (S2) – II
	C) Special Level: Marathi			C) Special Level: Marathi	
	A331	1. Marathi (G2) – I		A431	1. Marathi (G2) – II
	A332	2. Marathi (S1) – I		A432	2. Marathi (S1) – II
	A333	3. Marathi (S2) – I		A433	3. Marathi (S2) – II

S.Y.B.A. Semester III			S.Y.B.A. Semester IV		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Courses	D) Special Level: Geography		Core Courses	D) Special Level: Geography	
	A341	1. Geography (G2) – I		A441	1. Geography (G2) – II
	A342	2. Geography (S1) – I		A442	2. Geography (S1) – II
	A343	3. Geography (S2) – I		A443	3. Geography (S2) – II
	E) Special Level: Political Science			E) Special Level: Political Science	
	A351	1. Political Science (G2) – I		A451	1. Political Science (G2) – II
	A352	2. Political Science (S1) – I		A452	2. Political Science (S1) – II
	A353	3. Political Science (S2) – I		A453	3. Political Science (S2) – II
	F) Special Level: Sociology			F) Special Level: Sociology	
	A361	1. Sociology (G2) – I		A461	1. Sociology (G2) – II
	A362	2. Sociology (S1) – I		A462	2. Sociology (S1) – II
	A363	3. Sociology (S2) – I		A463	3. Sociology (S2) – II
Elective Courses	Any Two from the following which are not included in core courses:		Elective Courses	Any Two from the following which are not included in core courses:	
	A311	English (G2) – I		A461	1. Sociology (G2) – II
	A321	Economics (G2) – I		A462	2. Sociology (S1) – II
	A331	Marathi (G2) – I		A463	3. Sociology (S2) – II
	A341	Geography (G2) – I		A341	Geography (G2) – I
	A351	Political Science (G2) – I		A351	Political Science (G2) – I
	A361	Sociology (G2) – I		A361	Sociology (G2) – I
Foundation Course	This paper is compulsory for all the students:				
	UGF 31	Women Empowerment and Gender Justice			

T.Y.B.A.

A student studying at Semester V & VI for the Third Year B.A. Degree shall study the subjects as given below.

- 1) Compulsory English.
- 2) Five papers of the group selected as special subject.

T.Y.B.A. Semester V			T.Y.B.A. Semester VI		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Courses	A501	1. Compulsory English – I	Core Courses	A601	1. Compulsory English – II
	One group from the following which is concurrent with Semester III & IV:			One group from the following which is concurrent with Semester III & IV:	
	A) Special Level: English			A) Special Level: English	
	A511	1. English (S3) – I		A611	1. English (S3) – II
	A512	2. English (S4) – I		A612	2. English (S4) – II
	A513	3. English (S5) – I		A613	3. English (S5) – II
	A514	4. English (S6) – I		A614	4. English (S6) – II
	A515	5. English (S7) – I		A615	5. English (S7) – II
	B) Special Level: Economics			B) Special Level: Economics	
	A521	1. Economics (S3) – I		A621	1. Economics (S3) – II
	A522	2. Economics (S4) – I		A622	2. Economics (S4) – II
	A523	3. Economics (S5) – I		A623	3. Economics (S5) – II
	A524	4. Economics (S6) – I		A624	4. Economics (S6) – II
	A525	5. Economics (S7) – I		A625	5. Economics (S7) – II
	C) Special Level: Marathi			C) Special Level: Marathi	
	A531	1. Marathi (S3) – I		A631	1. Marathi (S3) – II
	A532	2. Marathi (S4) – I		A632	2. Marathi (S4) – II
	A533	3. Marathi (S5) – I		A633	3. Marathi (S5) – II
	A534	4. Marathi (S6) – I		A634	4. Marathi (S6) – II
	A535	5. Marathi (S7) – I		A635	5. Marathi (S7) – II

T.Y.B.A. Semester V			T.Y.B.A. Semester VI		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Courses	D) Special Level: Geography		Core Courses	D) Special Level: Geography	
	A541	1. Geography (S3) – I		A641	1. Geography (S3) – II
	A542	2. Geography (S4) – I		A642	2. Geography (S4) – II
	A543	3. Geography (S5) – I		A643	3. Geography (S5) – II
	A544	4. Geography (S6) – I		A644	4. Geography (S6) – II
	A545	5. Geography (S7) – I		A645	5. Geography (S7) – II
	E) Special Level: Political Science			E) Special Level: Political Science	
	A551	1. Political Science (S3) – I		A651	1. Political Science (S3) – II
	A552	2. Political Science (S4) – I		A652	2. Political Science (S4) – II
	A553	3. Political Science (S5) – I		A653	3. Political Science (S5) – II
	A554	4. Political Science (S6) – I		A654	4. Political Science (S6) – II
	A555	5. Political Science (S7) – I		A655	5. Political Science (S7) – II
	F) Special Level: Sociology			F) Special Level: Sociology	
	A561	1. Sociology (S3) – I		A661	1. Sociology (S3) – II
	A562	2. Sociology (S4) – I		A662	2. Sociology (S4) – II
	A563	3. Sociology (S5) – I		A663	3. Sociology (S5) – II
	A564	4. Sociology (S6) – I		A664	4. Sociology (S6) – II
	A565	5. Sociology (S7) – I		A665	5. Sociology (S7) – II
Foundation Courses	This paper is compulsory for all the students:				
	UGF 31	Soft Skills			

5. Total Required Credits :

Semester	Core Courses Credits	Elective Courses Credits	Foundation Courses Credits	Total Credits
Semester - I	04	20	02	26
Semester - II	04	20	00	24
Semester - III	16	08	02	26
Semester - IV	16	08	02	24
Semester - V	24	00	02	26
Semester - VI	24	00	00	24
Grand Total				150

5.2 : BACHELOR OF SCIENCE (B.Sc.) (Only for Second & Third Year)

COURSE STRUCTURE AND SYLLABUS OF Course Structure and Scheme of Credits :

Course	Semester	Credits	Total of Semester	Grand Total of the year
F.Y.B.Sc.	I	Theory (Core) - 24	34	66
		Practical – 08		
	II	Foundation - 02	32	
		Theory (Core) - 24		
S.Y.B.Sc.	III	Practical – 08	36	70
		Theory (Core) -24		
		Practical – 06		
	IV	Elective – 04	34	
		Foundation -02		
		Theory (Core) – 24		
T.Y.B.Sc.	V	Practical-06	32	62
		Elective-04		
		Foundation-02		
	VI	Theory (Core) -20	30	
		Practical-06		
		Elective-04		
Grand Total of the Course (All Semester)			198 (192+6)	198

S. Y. B. Sc. (Sem. III and IV)

CORE GROUPS (SELECT ANY ONE GROUP FROM THE FOLLOWING)

- Group I :- Physics, Chemistry and Mathematics (PCM)
- Group II :- Physics, Mathematics and Statistics (PMS)
- Group III :- Physics, Mathematics and Computer Application (PMCA).
- Group IV :- Mathematics, Statistics and Computer Application (MSCA)
- Group V :- Chemistry, Botany and Zoology (CBZ)
- Group VI :- Chemistry, Botany and Microbiology (CBM)
- Group VII :- Chemistry, Zoology and Microbiology (CZM)
- Group VIII :- Botany, Zoology and Microbiology (BZM)
- Group VIII :- Zoology, Microbiology and Geography (ZMG)

S.Y.B.Sc. Semester III			S.Y.B.Sc. Semester IV		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Courses		Physics	Core Courses		Physics
	P - 31	Mathematical Methods for Physics		P - 41	Waves & Oscillations
	P - 32	Optics		P - 42	Electronics
	P - 33	Practical course - III		P - 43	Practical course - IV
Core Courses		Chemistry	Core Courses		Chemistry
	C-31	Physical and Analytical Chemistry – I		C-41	Physical and Analytical Chemistry – II
	C-32	Organic and Inorganic Chemistry - III		C-42	Organic and Inorganic Chemistry - IV
	C - 33	Practical Course-III		C - 43	Practical Course-IV
Core Courses		Botany	Core Courses		Botany
	B -31	Plant anatomy and Embryology		B -41	Plant anatomy and Embryology
	B -32	Angiosperm Taxonomy		B -42	Angiosperm Taxonomy
	B -33	Practical course - III		B -43	Practical course - IV
Core Courses		Zoology	Core Courses		Zoology
	Z-31	Functional Anatomy of Non-chordates-II and Biodiversity		Z -41	Functional Anatomy of chordates-II
	Z-32	Histology of Mammals		Z - 42	Physiology of Mammals
	Z-23	Practical course - III		Z- 43	Practical course - IV
Core Courses		Microbiology	Core Courses		Microbiology
	MB-31	Microbial Metabolism		MB 41	Principles of Disease, Epidemiology and Immunology
	MB -32	Bacterial Genetics		MB 42	Applied Microbiology
	MB- 33	Practical course - III		MB- 43	Practical course - IV

S.Y.B.Sc. Semester III			S.Y.B.Sc. Semester IV		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Courses		Mathematics			Mathematics
	M-31	Calculus of Several Variables		M-41	Vector Calculus
	M-32	Group Theory and Differential Equations		M-42	Complex variables
	M – 33	Practical course - III		M – 43	Practical course - IV
Core Courses		Statistics			Statistics
	S-31	Probability Distributions And Statistical Inference-I		S-41	Probability Distributions And Statistical Inference-II
	S-32	Probability Distribution And Statistical Methods- I		S-42	Probability Distribution And Statistical Methods-II
	S- 33	Practical course - III		S- 43	Practical course - IV
Core Courses		Geography			Geography
	G - 31	Human Geography-I		G - 41	Human Geography-II
	G – 32	Biogeography - I		G – 42	Biogeography - II
	G- 33	Practical course - III		G- 43	Practical course - IV
Core Courses		Computer Application			Computer Application
	CA -31	Advanced C Concepts - I		CA -41	Advanced C Concepts –II
	CA -32	Digital Electronics		CA -42	Digital Electronics
	CA- 33	Practical course - III		CA- 43	Practical course – IV
	Any one of the following.			Any one of the following.	
	SEC-31	English – I		SEC-41	English –II
	SEC-32	Marathi – I		SEC-42	Marathi - II
Foundation Course	This Paper is Compulsory for the students				
	UGF-32	Cyber Law			

ENVIRONMENTAL STUDIES:

As per the order of Honorable Supreme Court of India, this course is compulsory for every undergraduate student. The college is implementing this module course in Environment Studies in the second year (Sem. III and IV) of all degree courses. There will be 50 lectures for this course. The examination will be conducted at the end of Semester IV and will carry 50 marks. It is mandatory for every student, to pass this course before he / she completes the degree course, failing which the degree result will not be declared.

T.Y.B.Sc. (Sem. V and VI)

The student should select any one subject from the core group which he / she has opted at S.Y.B.Sc. (Semester III and IV) as Principle subject.

T.Y.B.Sc. Semester V			T.Y.B.Sc. Semester VI		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Courses		Physics	Core Courses		Physics
	P-51	Mathematical Methods in Physics		P-61	Classical Electrodynamics
	P-52	Quantum Mechanics		P-62	Atomic and Molecular Physics
	P-53	Solid State Physics		P-63	Nuclear Physics
	P-54	Advanced Electronics		P-64	Computational Physics
	P-55	Classical Mechanics		P-65	Thermodynamics & Statistical Physics
	P-56	Practical Course – V		P-66	Practical Course – VIII
	P-57	Practical Course – VI		P-67	Practical Course – IX
	P-58	Practical Course - VII		P-68	Practical Course - X
Elective Course	Any one of the following.		Elective Course	Any one of the following.	
	P-59A	Elements of Materials Science		P-69A	Renewable Energy sources
	P-59B	Medical Electronics		P-69B	Physics of Nano Materials
	P-59C	Digital Electronics I		P-69C	Digital Electronics II

T.Y.B.Sc. Semester V			T.Y.B.Sc. Semester VI		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Courses		Chemistry	Core Courses		Chemistry
	C-51	Physical Chemistry – I		C-61	Physical Chemistry-II
	C-52	Inorganic Chemistry – I		C-62	Inorganic Chemistry-II
	C-53	Organic Chemistry – I		C-63	Organic Chemistry-II
	C-54	Analytical Chemistry – I		C-64	Analytical Chemistry-II
	C-55	Industrial Chemistry – I		C-65	Industrial Chemistry-II
	C-56	Practical Course – V		C-66	Practical Course – VIII
	C-57	Practical Course – VI		C-67	Practical Course – IX
	C-58	Practical Course - VII		C-68	Practical Course - X
Elective Course	Any one of the following.		Elective Course	Any one of the following.	
	C – 59A	Environment Chemistry-I		C – 69A	Environment Chemistry-II
	C – 59B	Nuclear Chemistry-I		C – 69B	Nuclear Chemistry-II
	C – 59C	Polymer Chemistry-I		C – 69C	Polymer Chemistry-II
Core Courses		Botany	Core Courses		Botany
	B –51	Biology of lower cryptogams (Algae & Fungi)		B –61	Biology of higher cryptogams (Bryophytes & Pteridophytes)
	B –52	Biology of seed plants (Angiosperms)		B –62	Biology of seed plants (Gymnosperms & Paleobotany)
	B –53	Plant pathology and Plant protection		B –63	Environmental Botany
	B –54	Genetics and Biostatistics		B –64	Palynology & Plant breeding
	B –55	Molecular biology and Biochemistry		B –65	Industrial botany II
	B-56	Practical Course – V		B-66	Practical Course – VIII
	B -57	Practical Course – VI		B -67	Practical Course – IX
	B - 58	Practical Course - VII		B - 68	Practical Course - X

T.Y.B.Sc. Semester V			T.Y.B.Sc. Semester VI		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Elective Course	Any one of the following.		Elective Course	Any one of the following.	
	B- 59A	Aerobiology		B- 69A	Horticulture & Gardening
	B - 59B	Medico Botany		B - 69B	Phaemacognosy
	B - 59C	Conservation of Medicinal Plants		B - 69C	Seed Technology
Core Courses		Zoology	Core Courses		Zoology
	Z - 51	Developmental Biology		Z - 61	General Embryology
	Z - 52	Genetics and evolution		Z - 62	Toxicology
	Z - 53	Applied Zoology- Apiculture and Inland fisheries		Z - 63	Biological Techniques
	Z - 54	Parasitology		Z - 64	Functional Anatomy of Chordates-III
	Z - 55	Ecology and environmental pollution		Z - 65	Economic Entomology
	Z-56	Practical Course - V		Z-66	Practical Course - VIII
	Z -57	Practical Course - VI		Z -67	Practical Course - IX
	Z - 58	Practical Course - VII		Z - 68	Practical Course - X
Elective Course	Any one of the following.		Elective Course	Any one of the following.	
	Z- 59A	Biochemistry and Molecular Biology		Z- 69A	Biotechnology
	Z - 59B	Comparative anatomy of Chordates and Micro- techniques		Z - 69B	Biostatistics
	Z - 59C	Evolution		Z - 69C	Biodiversity and wild Life
Core Courses		Microbiology	Core Courses		Microbiology
	MB 51	Medical Microbiology		MB 61	Chemotherapy and Biomedical strumentation.
	MB 52	Clinical Pathology		MB 62	Immunology
	MB 53	Virology		MB 63	Biotechnology
	MB 54	Genetics of rokaryotes		MB 64	Genetics of Eukaryotes and Gene Manipulation
	MB 55	Enzyme Kinetics and Regulation		MB 65	Microbial Metabolism Biochemical Evolution
	MB -56	Practical Course - V		MB -66	Practical Course - VIII
	MB -57	Practical Course - VI		MB -67	Practical Course - IX
	MB - 58	Practical Course - VII		MB - 68	Practical Course - X

T.Y.B.Sc. Semester V			T.Y.B.Sc. Semester VI		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Elective Course	Any one of the following.		Elective Course	Any one of the following.	
	MB-59A	Food and diary Microbiology		MB-69A	Agricultural and Environmental Microbiology.
	MB-59B	Applied Microbiology-I		MB-69B	Applied Microbiology-II
	MB-59C	Advance Techniques in Microbiology-I		MB-69C	Advanced Techniques in Microbiology-II
Core Courses	Mathematics		Core Courses	Mathematics	
	M-51	Real Analysis- I		M-61	Real Analysis- II
	M-52	Abstract Algebra – I		M-62	Abstract Algebra – II
	M-53	Discrete Mathematics –I		M-63	Discrete Mathematics –II
	M-54	Differential Geometry-I		M-64	Differential Geometry-II
	M-55	Computer Programming and Applications –I		M-65	Computer Programming and Applications –II
	M-56	Practical Course – V		M-66	Practical Course – VIII
	M-57	Practical Course – VI		M-67	Practical Course – IX
	M-58	Practical Course - VII		M-68	Practical Course - X
Elective Course	Any one of the following.		Elective Course	Any one of the following.	
	M-59A	Mechanics(statics)		M-69A	Operation Research-II
	M-59B	Operation Research-I		M-69B	Mechanics(Dynamics)
	M-59C	Special Functions-I		M-69C	Special Functions-II
Core Courses	Statistics		Core Courses	Statistics	
	S-51	Distribution Theory - I		S-61	Distribution Theory - II
	S-52	Statistical Inference - I		S-62	Statistical Inference - II
	S-53	Sampling Methods and Design of Experiments-I		S-63	Sampling Methods and Design of Experiments-II
	S-54	Applied Statistics(A)-I		S-64	Applied Statistics(A)-II
	S-55	Applied Statistics(B)-I		S-65	Applied Statistics(B)-II
	S-56	Practical Course – V		S-66	Practical Course – VIII
	S-57	Practical Course – VI		S-67	Practical Course – IX
	S-58	Practical Course - VII		S-68	Practical Course - X

T.Y.B.Sc. Semester V			T.Y.B.Sc. Semester VI		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Elective Course	Any one of the following.		Elective Course	Any one of the following.	
	S – 59A	Computer Programming. 'C' Programming (Turbo C)-I		S-69A	Computer Programming. 'C' Programming (Turbo C)-II
	S – 59B	Principles of Computer Science-I		S-69B	Principles of Computer Science-II
	S – 59C	Statistical Ecology		S – 69C	Medical Statistics
Core Courses	Geography		Core Courses	Geography	
	G -51	World Regional Geography-I		G-61	World Regional Geography-II
	G-52	Geography of India-I		G-62	Geography of India-II
	G-53	Resources and environment-I		G-63	Recourses and Environment-II
	G-54	Economic Geography-I		G-64	Economic Geography-II
	G-55	Applied Geography-I		G-65	Applied Geography-II
	G-56	Practical Course – V		G- 66	Practical Course – VIII
	G-57	Practical Course – VI		G-67	Practical Course – IX
	G- 58	Practical Course - VII		G- 68	Practical Course - X
Elective Course	Any one of the following.		Elective Course	Any one of the following.	
	G-59A	Geography of Water Resources-I		G -69A	Geography of Water Resources-II
	G-59B	Geography of Soils-I		G-69B	Geography of Soils-II
	G-59C	Population Geography-I		G-69C	Population Geography-II
Core Courses	Computer Application		Core Courses	Computer Application	
	CA -51	Operating System-I		CA -61	Operating System-II
	CA -52	Visual basic. Net programming-I		CA -62	Visual basic. Net programming-II
	CA -53	Software Engineering -I		CA -63	Software Engineering-II
	CA -54	Database Management System-I		CA -64	Database Management System-II
	CA -55	Data and File structure-I		CA -65	Data and File structure-II
	CA- 56	Practical Course – V		CA- 66	Practical Course-VIII
	CA-57	Practical Course – VI		CA-67	Practical Course-IX
	CA- 58	Practical Course - VII		CA- 68	Practical Course-X
Elective Course	Any one of the following.		Elective Course	Any one of the following.	
	CA-59A	Computer Networks-I		CA-69A	Computer Networks-II
	CA-59B	Internet Programming-I		CA-69B	Internet Programming-II
	CA-59C	Theoretical computer science-I		CA-69C	Theoretical computer science-II

5.3 : Bachelor of Computer Science B.Sc. (Computer Science)(Only for Second & Third year)

S.Y.B.Sc.Comp.Sci. Semester III			S.Y.B.Sc.Comp.Sci. Semester IV		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Courses	CS -31	Object Oriented Programming with C++	Core Courses	CS -41	Data Structures using C++
	CS -32	Introduction to .Net using C#		CS -42	ASP.Net
	CS -33	Linear Algebra		CS -43	Computational Geometry
	CS -34	Computer Oriented Numerical Methods		CS -44	Optimization Techniques
	CS -35	Digital systems and Microprocessors		CS -45	8051 Microcontroller
	CS -36	Principles of Communication		CS -46	Analog Systems
	CSIII- LI	Lab Course on C++ and Data Structures -I		CSIV- LI	Lab Course on C++ and Data Structures -II
	CSIII- LII	Lab Course on .NET -I		CSIV- LII	Lab Course on .NET -II
	CSIII- LIII	Lab Course on Electronics -III		CSIV- LIII	Lab Course on Electronics -IV
Elective Course	Any One from the following:		Elective Course	Any One from the following:	
	CS -37	Cloud Computing -I		CS -47	Cloud Computing -II
	CS -38	Data Warehousing and data mining-I	CS -48	Data Warehousing and data mining-II	
Foundation Course	This paper is compulsory for all the students:				
	UGF 32	Cyber Law			

Environment Studies

As per the order of Honourable Supreme Court of India, this course is compulsory for every undergraduate student. The college is implementing this module course in Environment Studies in the second year of all degree courses. There will be 50 lectures for this course. The examination will be conducted at the end of Semester IV and will carry 50 marks. These marks will be converted into the grades accordingly. These grades will be mentioned in the degree marksheet. If any student fails in this course, the result of his/her degree course will be withheld by the university.

T.Y.B.Sc. (Computer Science):

T.Y.B.Sc.Comp.Sci. Semester V			T.Y.B.Sc.Comp.Sci. Semester VI		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Courses	CS -51	Operating System	Core Courses	CS -61	Linux Programming
	CS -52	Web Supporting Technologies		CS -62	Open Source Technologies
	CS -53	Theoretical Computer Science		CS -63	Compiler Construction
	CS -54	Core JAVA		CS -64	Advance JAVA
	CS -55	Software Engineering		CS -65	Unified Modeling Language
	CSV-LI	Lab Course on System programming and Linux -I		CSV-LI	Lab Course on System programming and Linux -II
	CSV-LII	Lab Course on Web Supporting Technologies -I		CSV-LII	Lab Course on Web Supporting Technologies -II
	CSV-LIII	Lab Course on JAVA -I		CSV-LIII	Lab Course on JAVA -II
	CSV-LIV	Mini Project -I		CSV-LIV	Mini Project -II
Elective Course	Any One from the following:		Elective Course	Any One from the following:	
	CS -56	Data Communication and Networking -I		CS -56	Data Communication and Networking-II
	CS -57	Management Information System -I		CS -57	Management Information System-II
	CS -58	Research in Computer Science -I		CS -58	Research in Computer Science -II
Foundation Course	This paper is compulsory for all the students:				
	UGF 51	Soft Skills			

5.4 : Bachelor of Commerce (B.Com.) (Only for Second & Third Year)

1. Course Structure and Scheme of Credits of B. Com. Course:

The B. Com. programme will be of three years duration consisting of six semesters and of minimum 158 credits: Semester I (30 Credits), Semester II (28 Credits), Semester III (26 Credits), and Semester IV (24 Credits) Semester V (26 Credits), and Semester VI (24 Credits). In Semester I and II there will be seven theory papers (Core and Elective Courses) and Semester III to VI, there will be six theory papers (Core and Elective Courses) of 4 credits each. In addition, there will be one theory course (Foundation Course) each in Semester I, Semester III and Semester V of 2 credits each. All 37 (Core and Elective Courses) papers will have 100 marks each out of which 40 marks will be for Internal Assessment and 60 marks for University Examination. All Foundation Courses will have 50 marks each out of which 20 marks will be for Internal Assessment and 30 marks for University Examination. Thus, B. Com. degree examination, six Semesters shall be of 3950 marks and of 158 credits altogether.

Sr.	Semester	Total Credits	Total Marks
1	Semester I	30	750
2	Semester II	28	700
3	Semester III	26	650
4	Semester IV	24	600
5	Semester V	26	650
6	Semester VI	24	600
	Grand Total	158	3950

A student joining B. Com. Course should note that subjects in Core Courses are compulsory. In addition, he has to offer any subject or any one group from the Elective Courses. Fundamental Course is compulsory for all the students.

The following shall be the course structure:

S.Y.B.Com. Semester III			S.Y.B.Com. Semester IV		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Courses	C308	Corporate Accounting I	Core Courses	C408	Corporate Accounting II
	C309	Communication Skills I		C409	Communication Skills II
	C310	Principles of Business Management I		C410	Principles of Business Management II
	C304	Business Economics III		C404	Business Economics IV
Elective Course	To choose any one of the following:		Elective Course	To choose any one of the following:	
	C311	Corporate Law III		C411	Corporate Law IV
	C321	Banking and Insurance III		C421	Banking and Insurance IV
	C331	Marketing III		C431	Marketing IV
	To choose any one of the following:			To choose any one of the following:	
	C341	Cost & Management Accounting I		C441	Cost & Management Accounting II
	C351	Business Entrepreneurship I		C451	Business Entrepreneurship II
	C361	E-Commerce I		C461	E-Commerce II
	C371	Business Administration I		C471	Business Administration II
Foundation Course	This paper is compulsory for all the students.				
	UGF 22	Gender Equality			

Environmental Studies Course Examination (Semester IV):

As per the order of Hon'ble Supreme Court of India, the course 'Environmental Studies' is compulsory for every undergraduate student. The college is implementing this module course in Environment Studies in the second year of all degree courses. There will be 2 lectures per week. The examination will be conducted at the end of Semester IV and will carry 50 marks. These marks will be converted into the grade accordingly. This grade will be mentioned in the

degree grade sheet. If any student fails in this course, the result of his/her degree course will be withheld by the university.

T.Y.B.Com. Semester V			T.Y.B.Com. Semester VI		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Courses	C508	Corporate Accounting III	Core Courses	C608	Corporate Accounting IV
	C512	International Economics I		C604	International Economics II
Elective Course	To choose any one of the following:		Elective Course	To choose any one of the following:	
	C513	Auditing & Taxation I		C612	Auditing & Taxation II
	C504	Business Regulatory Framework I		C613	Business Regulatory Framework II
	To choose any one of the following:			To choose any one of the following:	
	C511	Corporate Law V		C611	Corporate Law VI
	C521	Banking and Insurance V		C621	Banking and Insurance VI
	C531	Marketing V		C631	Marketing VI
	To choose any one Group of the following:			To choose any one Group of the following:	
	Group A			Group A	
	C541	Cost & Management Accounting III		C641	Cost & Management Accounting V
	C542	Cost & Management Accounting IV		C642	Cost & Management Accounting VI
	Group B			Group B	
	C551	Business Entrepreneurship III		C651	Business Entrepreneurship V
	C552	Business Entrepreneurship IV		C652	Business Entrepreneurship VI
	Group C			Group C	
	C561	E-Commerce III		C661	E-Commerce V
	C562	E-Commerce IV		C662	E-Commerce VI
	Group D			Group D	
	C571	Business Administration III		C671	Business Administration V
	C572	Business Administration IV		C672	Business Administration VI
Foundation Course	This paper is compulsory for all the students.				
	UGF 33	Soft Skills			

6 : SCHEME OF EXAMINATION (2016 Course)

FOR ALL UNDERGRADUATE PROGRAMMES

● University Terms

The dates for the commencement and conclusion of the First and the Second terms shall be fixed by the University authorities. The terms can be kept by students, who have registered their names with the University.

● Scheme of Examination

The assessment of students in the academic session 2016-17 and thereafter shall be based on-

- (a) University Examinations (UE)
- (b) Internal Assessment (IA)
- (c) Choice Based Credit System (CBCS) and
- (d) Semester Grade Point Average (SGPA) and Cumulative Grade Point Average System (CGPA).

For each paper of 100 marks, there will be Internal Assessment of 40 marks and the University Examination of 60 marks/3 hours duration at the end of each semester. The 4 credits will be given to a student who secures at least 40% of marks allotted to each paper. A candidate who does not pass the examination in any subject or subjects in one semester will be permitted to reappear in such failed subject or subjects along with the papers of following semesters.

The Internal Assessment (IA) for each paper will be of 40 marks. The Internal Assessment may be in the forms as follows:

- | | |
|---|----------|
| a) Attendance | 10 Marks |
| b) Home Assignment/Tutorial/Test/Presentation | 15 Marks |
| c) Mid Semester Examination | 15 Marks |

● Practical : (Applicable to Commerce Faculty only)

There shall be compulsory practical examination of 10 marks for B.Com. degree for all Elective Courses at the end of each semester but before UE. The practical examination will be based on the following:

- a) Journal : 5 Marks
- b) Oral : 5 Marks

Students should note that there is separate heads of passing in practical examination for B. Com.

The 60 marks in UE of the Elective Courses having practical will be converted into 50 marks.

● Diploma in Marketing and Diploma in Banking (along with to B.Com. Degree): (Applicable to Commerce Faculty only)

A student admitted for B. Com. Semester I and opted for Marketing or Banking and

Insurance as one of the elective courses, shall enroll himself/herself for Diploma in Marketing or Diploma in Banking as the case may be. He/She has to apply for Diploma in the prescribed form. The duration of the Diploma is of three years and can be completed along with with B. Com. degree. The medium of instruction and examination shall be English.

For successful completion of the Diploma -

1. A student has to complete all practicals in Semester I, II, III and IV while in Semester V and VI he/she has to complete project report under the supervision of the concerned subject teacher.
2. The evaluation of project and viva voce examination shall be done by marks only and then it will be converted into grade in the ten point scale and awarded the same to the student.
3. A student shall have to obtain minimum 40% marks in project evaluation and viva voce taken together.

After successful completion of the diploma course, separate Diploma will be conferred on the students in the convocation of the University.

- **Career Oriented Courses**

- a. **Career Oriented Courses in Spoken English** (Applicable to Arts & Commerce Faculty only)

A student admitted to B.A. and B.Com. Semester-I shall enroll for Career Oriented Course in Spoken English. He/She has to apply for this certificate course in the prescribed form. The duration of this course is of one year and can be completed along with B.A. and B.Com. degree. The medium of instruction and evaluation shall be English.

- b. **Career Oriented Courses in Identification and Preservation of Medicinal Plants** (Applicable to Science Faculty only)

A student admitted to B.Sc. Semester-I shall enroll for Career Oriented Course in Identification and Preservation of Medicinal Plants. He/She has to apply for this certificate course in the prescribed form. The duration of this course is of one year and can be completed along with B.Sc. degree. The medium of instruction and evaluation shall be English.

- **Standard of Passing**

For all courses, both UE and IA constitute separate heads of passing. In order to pass in such courses and to earn the assigned credits, a student must obtain a minimum grade point of 5.0 (40% marks) at UE and also a minimum grade point of 5.0 (40% marks) at IA.

A student who fails at UE in a course has to reappear only at UE as a backlog candidate and clear the head of passing. Similarly, a student who fails in a course at IA has to reappear only at IA as a backlog candidate and clear the head of passing.

The 10-point scale Grades and Grade Points according to the following table.

Range of Marks (Out of 100)	Grade	Grade Point
$80 \leq \text{Marks} \leq 100$	O	10
$70 \leq \text{Marks} < 80$	A+	9
$60 \leq \text{Marks} < 70$	A	8
$55 \leq \text{Marks} < 60$	B+	7
$50 \leq \text{Marks} < 55$	B	6
$40 \leq \text{Marks} < 50$	C	5
Marks < 40	D	0

The performances at UE and IA will be combined to obtain the Grade Point Average (GPA) for the course. The weightage for performance at UE and IA shall be 60% and 40% respectively.

GPA is calculated by adding the UE marks out of 60 and IA marks out of 40. The total marks out of 100 are converted to grade point, which will be the GPA.

- **Formula to Calculate Grade Points (GP)**

Suppose that 'Max' is the maximum marks assigned for an examination or evaluation based on which GP will be computed. In order to determine the GP, Set $x = \text{Max} / 10$ (since we have adopted 10-point system). Then GP is calculated by the formulas shown as below.

Range of Marks at the evaluation	Formula for the Grade Point
$8x \leq \text{Marks} \leq 10x$	10
$5.5x \leq \text{Marks} < 8x$	Truncate (Marks/x) +2
$4x \leq \text{Marks} < 5.5x$	Truncate (Marks/x) +1

Two kinds of performance indicators, namely, the Semester Grade Point Average (SGPA) and the Cumulative Grade Point Average (CGPA) shall be computed at the end of each term. The SGPA measures the cumulative performance of a student in all the courses in a particular semester, while the CGPA measures the cumulative performance in all courses since his/her enrolment to the course. The CGPA of learner when he/she completes the programme is the final result of the learner.

The SGPA is calculated by the formula $\text{SGPA} = \frac{\sum C_k \times \text{GPK}}{\sum C_k}$ where C_k is the credit-value assigned to a course and GPK is the GPA obtained by the student in the course. In the above, the sum is taken over all the courses that the student has undertaken for the study during the semester, including those in which he/she might have failed or those for

which he/ she remained absent. The SGPA shall be calculated up to two decimal place accuracy.

The CGPA is calculated by the formula $CGPA = \frac{\sum Ck \times GPk}{\sum Ck}$, where Ck is the credit-value assigned to a course and GPk is the GPA obtained by the student in the course. In the above, the sum is taken over all the courses that the student has undertaken for the study from the time of his/her enrolment to the course and also during the semester for which CGPA is calculated, including those in which he/she might have failed or those for which he/she remained absent. The CGPA shall be calculated up to two decimal place accuracy.

The Formula to compute equivalent percentage marks for specified CGPA

% Marks (CGPA) =	$10 \times CGPA - 10$	if $5.00 \leq CGPA \leq 6.00$
	$5 \times CGPA + 20$	if $6.00 \leq CGPA \leq 8.00$
	$10 \times CGPA - 20$	if $8.00 \leq CGPA \leq 9.00$
	$20 \times CGPA - 110$	if $9.00 \leq CGPA \leq 9.50$
	$40 \times CGPA - 300$	if $9.50 \leq CGPA \leq 10.00$

● Award of Honours

A student who has completed the minimum credits specified for the programme shall be declared to have passed in the programme. The final result will be in terms of letter grade only and is based on the CGPA of all courses studied and passed. The criteria for the award of honours are given below.

Range of CGPA	Equivalent Range of Marks (%)	Final Grade	Performance Descriptor	Final Class
$9.50 \leq CGPA \leq 10.00$	$80 \leq \text{Marks} \leq 100$	O	Outstanding	First Class with Distinction
$9.00 \leq CGPA \leq 9.49$	$70 \leq \text{Marks} < 80$	A+	Excellent	
$8.00 \leq CGPA \leq 8.99$	$60 \leq \text{Marks} < 70$	A	Very Good	First Class
$7.00 \leq CGPA \leq 7.99$	$55 \leq \text{Marks} < 60$	B+	Good	Higher Second Class
$6.00 \leq CGPA \leq 6.99$	$50 \leq \text{Marks} < 55$	B	Average	Second Class
$5.00 \leq CGPA \leq 5.99$	$40 \leq \text{Marks} < 50$	C	Satisfactory	Pass Class
CGPA Below 5.00	Marks Below 40	F	Fail	Fail

● Gracing

The gracing shall be done as per existing rules of the University.

● Verification and Revaluation

There is a provision for verification and revaluation of the result. A student can apply for the verification and revaluation of the result within two weeks from the declaration of the results with the prescribed fee. The verification and revaluation shall be done as per the existing rules of the University.

- **Rule for ATKT**

A candidate shall be permitted to proceed further from the First Semester up to Fourth Semester irrespective of his/her failure in any of the Semester examinations subject to the condition that the candidate should register for all the backlog subjects of earlier semesters along with current (subsequent) semester subjects. However, he/she should have clear all the papers at Semester I & II when he/she is admitted to Semester V.

- **Span Period to Qualify a Degree**

As per the guidelines issued by the University Grants Commission (UGC) on “Determination of Uniform Span Period within which a student may be allowed to Qualify for a Degree”, a student has to qualify for a degree within the period prescribed by the UGC. If a student could not, he/she will be allowed two more years beyond the prescribed period.

In exceptional cases, further extension of one more year may be considered by the University. This is applicable to those students who will be admitted from the academic year 2016-17 onwards as per the Notification (No. 775 dated 14/12/2015) issued by Bharati Vidyapeeth University.

- **Format of the Transcript**

A student will be given a transcript indicating his/her performance at the end of every semester examination. The transcript shall be given as per the following table along with other necessary details.

Course No.	Course Name	No. of Credits	University Examination		Internal Assessment		Grade Point Average	Result
			Grade	Grade Point	Grade	Grade Point		
1								
2								
3								
4								
5								
6								
Total Cumulative Credits Completed			SGPA		CGPA		Equivalent Marks (%)	
Note : GPA is calculated by adding the UE marks out of 60 and IA marks out of 40. The total marks out of 100 are converted to Grade Point, which will be the GPA.								

7. : ELIGIBILITY FOR ADMISSION TO POST GRADUATE PROGRAMMES

Choice Based Credit System (CBCS) (2018 Course)

1. Eligibility for admission to M.A. (English) Course:

Any graduate of this University or any other recognized University shall be admitted to M.A. (English) Course.

2. Eligibility for admission to M.Sc. (Chemistry) Course:

A student shall be eligible for admission to the First Year M.Sc (Analytical/Organic/Inorganic Chemistry) degree course who has completed B.Sc (Chemistry) graduation from any recognized university satisfying the following conditions. The candidate should have secured at least 50% (45% for SC/ST) in aggregate at graduate level university examination.

3. Eligibility for admission to M.Sc. (Microbiology) Course:

A candidate who has passed the

- Bachelor of Science from any recognized university with Microbiology as Principle subject (Major) or Microbiology (Honors).
- Bachelor of Science from any recognized university with Botany/Zoology/Biochemistry/Biotechnology/Environmental science as major subjects with Microbiology as subsidiary subject.
- Bachelor of Science from any recognized university with Microbiology as one of the subjects.
- The candidate who has secured aggregate of 50% marks (45 % marks in case of SC/ST) in the graduate course as well as in the Microbiology Subject shall be eligible for admission to the First Year M.Sc. degree course.

4. Eligibility for admission to M.Sc. (Computer Science) Course:

A student shall be eligible for admission to the First Year M.Sc. (Computer Science) degree course who has completed B.Sc.(Computer Science) / B.Sc(Computer application)/B.Sc.(IT)graduation from any recognized university satisfying the following conditions. The candidate should have secured at least 50% (45% for SC/ST) in aggregate at graduate level university examination.

5. Eligibility for admission to M.Com. Course:

A candidate who has passed the B. Com. or B.B.A. of this University or any other recognised university or any graduate of this or any other recognised university shall be permitted to take admission to the M. Com. degree course of this University.

8 : Course Structure (PG Programme)(CBCS 2018 COURSE)

(To be implemented from June 2018)

8.1 : Master of Arts (M.A. English)

1. Course Structure of M.A. (English) Course:

The M.A. programme will be of two years duration consisting of four semesters and of minimum 70 Credits: Semester I (16 Credits), Semester II (18 Credits), Semester III (18 Credits), and Semester IV (18 Credits). In first three Semesters, there will be four theory papers of 04 credits each. In Fourth Semester, there will be three theory papers of 06 credits and one research project of 10 credits. All 16 papers will have 100 marks each out of which 40 marks will be for Internal Assessment and 60 marks for University Examination. Thus M.A. English degree examination, four Semesters shall be of minimum 1600 marks and of minimum 70 credits altogether. The following shall be the course structure:

M.A. English: First Year

Semester I			Semester II		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core: Compulsory	PGEN G 11	Literature in English from 1550 to 1832 – I	Core: Compulsory	PGENG 21	Literature in English from 1550 to 1832 – II
	PGEN G 12	Introduction to the Study of English Language – I		PGENG 22	Introduction to the Study of English Language – II
	PGEN G 13	English Language and Literature Teaching – I		PGENG 23	English Language and Literature Teaching – II
Core: Elective	Any one from the following:		Core: Elective	Any one from the following:	
	PGEN G 14	a) Postcolonial Literature – I		PGENG 24	a) Postcolonial Literature – II
	PGEN G 15	b) Linguistics and Stylistics – I		PGENG 25	b) Linguistics and Stylistics – II
	PGEN G 16	c) American Literature: 19th Century – I		PGENG 26	c) American Literature: 19th Century – II
PGEN G 17	d) Indian Literature in English Translation – I	PGENG 27	d) Indian Literature in English Translation – II		
			Ability Enhancement Course	PGAEC 11	English for Specific Purposes

Semester III			Semester IV		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core: Compulsory	PGEN G 31	Literature in English from 1832 to 1980 – I	Core: Compulsory	PGENG 41	Literature in English from 1832 to 1980 – II
	PGEN G 32	Contemporary Critical Thoughts – I		PGENG 42	Contemporary Critical Thoughts – II
	PGEN G 33	Research Methodology – I		PGENG 43	Research Methodology – II (Project Report)
Core: Elective	Any one from the following:		Core: Elective	Any one from the following:	
	PGEN G 34	a) Postcolonial Indian English Literature – I		PGENG 44	a) Postcolonial Indian English Literature – II
	PGEN G 35	b) Semantics and Pragmatics – I		PGENG 45	b) Semantics and Pragmatics – II
	PGEN G 36	c) Contemporary American Literature and Culture – I		PGENG 46	c) Contemporary American Literature and Culture – II
	PGEN G 37	d) World Classics in English Translation – I		PGENG 47	d) World Classics in English Translation – II
Skill Enhancement Course	PGSEC 31	Soft Skills			

2. Scheme of Examination:

The Assessment of Regular students of Master of Arts (M.A.) English course in the academic session 2018-19 and after, shall be based on

- University Examinations,
- Internal Assessment,
- Choice Based Credit System, and
- Semester Grade Point Average and Cumulative Grade Point Average system

For each paper of 100 marks, there will be Internal Assessment of 40 marks and the University Examination of 60 marks/3 hours duration at the end of each semester. The 04 credit will be given to a student who secures atleast 40% of marks allotted to each paper. A candidate who does not pass the examination in any subject or subjects in one semester will be permitted to reappear in such failed subject or subjects along with the papers of following semesters.

The Internal Assessment (IA) for each paper will be of 40 marks which will be carried out by the department during the term. The Internal Assessment may be in the forms as follows: Attendance, Written tests, seminars, term papers, presentations, assignments, orals or any such others. There will be at least two types of assessments from the types given above.

At the end of each semester, a cumulative grade point average (CGPA) and also Semester grade point average (SGPA) will be calculated as a weighted average of the GPI of all courses in which the student has passed till that semester.

A candidate shall be permitted to proceed from the First Semester up to Final Semester irrespective of his/her failure in any of the Semester examinations subject to the condition that the candidates should register for all the arrear subjects of earlier semesters along with current (subsequent) semester subjects.

Research Project Work:

There will be a Research Project to be prepared by a student during the fourth semester. The objective of the project work is to introduce students to research methodology in the subject and prepare them for pursuing research in theoretical or experimental or computational areas of the subject. The project work is to be undertaken under guidance of a teacher allotted to a student by the department.

Division of Marks

Synopsis with working bibliography (Internal Assessment)	: 40 Marks
A full Project Report (Minimum 50-80 pages) (University Assessment)	: 40 Marks
Viva Voce (University Assessment)	: 20 Marks

As the Research Project is based on the self study done by the candidate and evaluated for 100 marks altogether, 06 credits will be awarded to a successful candidate in this subject. The project may be evaluated by two examiners one internal and one external, selected from the panel of PG examiners of the University.

The candidate has to submit the project 15 days before the commencement of the fourth semester university examination. A candidate who fails to submit the project may resubmit the same in the subsequent semester examination for evaluation. The project work activities must be duly supported by documentary evidence to be endorsed by the Head or Guide.

3. Standard of Passing:

A candidate shall be declared to have passed in the paper provided he/she has secured minimum GP of 4.5 in the University Examination and a GPA of 4.0 in aggregate of University Examination and Internal Assessment taken together.

A student who passes in all the courses will be declared to have passed M.A. (English) with the following honours.

CGPA in [4.00, 4.99] -- Pass Class

CGPA in [5.00, 5.49] -- Second Class

CGPA in [5.50, 5.99] -- Higher Second Class

CGPA in [6.00, 7.99] -- First Class

CGPA in [8.00, 10.00] -- First Class with Distinction

4. Scheme of credits:

Four hours per week teaching in one semester will lead to four credits and research project will carry 06 credits.

5. Grade point scheme:

The 10-point scale would be used to convert marks out of 100 to grades and grade points according to the following table:

Marks as Percentage	Grade	Grade Point
[75.0, 100]	O	10.0
[70.0, 74.9]	A+	9.0
[65.0,69.9]	A	8.0
[60.0,64.9]	B+	7.0
[55.0,59.9]	B	6.0
[50.0,54.9]	C+	5.5
[45.0,49.9]	C	5.0
[40.0,44.9]	D	4.5

GRACING:

The gracing shall be done as per existing rules of the University.

VERIFICATION AND REVALUATION:

There is provision for verification and revaluation of the result. A student can apply for the verification and revaluation of the result within the two weeks from the declaration of the results with the prescribed fee. The verification and revaluation shall be done as per the existing rules of the University.

**8.2 : Master of Science (M.Sc.)
(Analytical/Organic/Inorganic Chemistry)
(CBCS 2018 COURSE)(To be implemented from June 2018)**

1. COURSE STRUCTURE

- 1) The M.Sc. (Chemistry) course will be of four semesters and with a minimum of 72 credits. The medium of instruction and examination will be only English.
- 2) Credits for Semester I-16 Credits, Semester II -20 Credits, Semester III- 18 Credits and Semester IV- 18 Credits.
- 3) The assessment of 1 credit at Semester IV of M.Sc.(Chemistry) that is for Industrial Training programme will be carried out as follows :-
 - i) A student will inform the department about the joining date of the above mentioned training.
 - ii) The student will have to make presentation at the end of the programme and the student will have to submit a compiled report which will be assessed towards course credit as Internal Assessment Marks for Core Elective subject.
- 4) Each theory course prescribed for M. Sc. should be covered in 4 hours, each of 60 minutes duration per week per course
- 5) Each practical course will require 4 hours of laboratory work per week and the course will be extended over two semesters and will be examined at the end of the academic year.
- 6) For theory course the question paper should include at least 20 % weightage for problem solving. Problem solving would include numerical problems and may be objective type questions.
- 7) Thus M.Sc (Analytical/Organic/Inorganic Chemistry) degree examination has four semesters and shall be of 2100 marks and of minimum 72 credits altogether. The following shall be the course structure:

SEMESTER – I (Analytical/Organic/Inorganic Chemistry)

Semester	Subject Type	Code	Title of the paper
Semester I	Core: Compulsory	PGCH- 101	Physical Chemistry- I
		PGCH- 102	Inorganic Chemistry-I
		PGCH- 103	Organic Chemistry-I
		PGCH -206	Physical Chemistry practical*
		PGCH -207	Inorganic Chemistry practical*

SEMESTER – II (Analytical/Organic/Inorganic Chemistry)

Semester	Subject Type	Code	Title of the paper
Semester II	Core: Compulsory	PGCH- 201	Physical Chemistry- II
		PGCH- 202	Inorganic Chemistry-II
		PGCH- 203	Organic Chemistry-II
		PGCH -204	Fundamentals of analytical Chemistry
		PGCH- 208	Organic Chemistry practical*
	Ability Enhancement Course	PGAEC- 209	Scientific Writing

SEMESTER – III (Analytical Chemistry)

Semester	Subject Type	Code	Title of the paper
Semester II	Core: Compulsory	PGAC 301	Thermal, Radio and Electro-analytical methods
		PGAC 302	Modern aspects of Analytical Chemistry
		PGAC 303	Recent Analytical Techniques-I
		PGAC 304	Analysis of Pharmaceuticals
		Skill Enhancement Course	PGSEC 305

SEMESTER- IV (Analytical Chemistry)

Semester	Subject Type	Code	Title of the paper
Semester IV	Core: Compulsory	PGAC 401	Recent Separation Techniques
		PGAC 402	Recent Analytical Techniques-I
Any one from the following: From PGAC-403 to PGAC-405			
Semester IV	Core: Elective	PGAC 403	Environmental Analysis
		PGAC-404	Computer Interface with Chemistry
		PGAC-405	Recent Methods of Analysis
	Core: Compulsory	PGAC 407	Practical Course -I*
		PGAC 408	Practical Course -II*
		PGAC 409	Practical Course –III OR Project Work*

* Examination for practical courses will be conducted at the end of academic year.

Core Elective Course includes Core: Elective subjects and Industrial project.

Industrial Project includes one day visit, Internet survey, project writing, presentation or oral and be evaluated as the internal marks for Core: Elective Course (PGAC-403, PGAC-404, PGAC-405).

SEMESTER – III (Organic Chemistry)

Semester	Subject Type	Code	Title of the paper
Semester III	Core: Compulsory	PGOC 301	Advanced Organic Reaction Mechanism
		PGOC 302	Spectroscopic Methods In Structure Determination
		PGOC 303	Advanced Stereochemistry
		PGOC 304	Medicinal Chemistry
	Skill Enhancement Course	PGSEC 305	Assessment of Water Quality

SEMESTER- IV (Organic Chemistry)

Semester	Subject Type	Code	Title of the paper
Semester IV	Core: Compulsory	PGOC-401	Synthetic Organic Chemistry
		PGOC-402	Chemistry Of Natural Products
Any one from the following: From PGAC-403 to PGAC-405			
Semester IV	Core: Elective	PGOC-403	Green Chemistry
		PGOC-404	Applied Organic Chemistry
		PGOC-405	Bio-Organic Chemistry
	Core: Compulsory	PGOC-407	Mixture Separation*
		PGOC-408	Advanced Preparations*
		PGOC-409	Research Project / Laboratory Course*

* Examination for practical courses will be conducted at the end of academic year.

Core Elective Course includes Core: Elective subjects and Industrial project.

Industrial Project includes one day visit, Internet survey, project writing, presentation or oral and be evaluated as the internal marks for Core: Elective Course (PGOC-403, PGOC-404, PGOC-405).

SEMESTER – III (Inorganic Chemistry)

Semester	Subject Type	Code	Title of the paper
Semester III	Core: Compulsory	PGIC-301	Advanced Coordination Chemistry
		PGIC-302	Bioinorganic Chemistry and Heterogeneous Catalysis
		PGIC-303	Inorganic Solid State Chemistry and Inorganic Polymer Chemistry
		PGIC-304	Inorganic Analytical Chemistry
	Skill Enhancement Course	PGSEC 305	Assessment of Water Quality

SEMESTER- IV(Inorganic Chemistry)

Semester	Subject Type	Code	Title of the paper
Semester IV	Core: Compulsory	PGIC-401	Organometallic Chemistry
		PGIC-402	Material Chemistry and Nanoscience and Nanotechnology Related to Inorganic Systems
Any one from the following: From PGAC-403 to PGAC-405			
Semester IV	Core: Elective	PGIC-403	Modern Instrumental Techniques for Inorganic Analysis
		PGIC-404	Inorganic Pharmaceutical Chemistry
		PGIC-405	Applications of Inorganic Chemistry in Agriculture, Environmental Science and Space Science
	Core: Compulsory	PGIC-407	Practical Course-I*
		PGIC-408	Practical Course-II*
		PGIC-409	Research Project OR Practical Course-III*

* Examination for practical courses will be conducted at the end of academic year.

Core Elective Course includes Core: Elective subjects and Industrial project.

Industrial Project includes one day visit, Internet survey, project writing, presentation or oral and be evaluated as the internal marks for Core: Elective Course (PGIC-403, PGIC-404, PGIC-405).

6. SCHEME OF EXAMINATION:

In order to pass in a course, the student must obtain a minimum of 'D' grade at the UE and a GPI of 4.0 in aggregate of University Exam and Internal Assessment. There is no separate passing in IA. The GPI is calculated only if the student passes at UE by combining percentage marks at UE and IA with weights 0.6 and 0.4 respectively. A student who fails has to clear the course by appearing at UE only as a back-log candidate.

The Internal Assessment (IA) of each course will be for 40 marks and conducted by the college during the term. The assessment may be based on evaluations of

the following: attendance, written tests, seminar/presentation by the student, assignment, orals or any other. Hence there must be at least two evaluations of different kind.

Each theory paper at University Examination (UE) will be evaluated for 60 marks at each semester. Each practical examination for lab course is of 100 marks and Six hour duration. The project courses in Semesters IV will be evaluated for 100 marks for the allotted credits by a panel consisting of one internal and one external examiner.

A candidate shall be permitted to proceed from the first semester upto final semester irrespective of their failure in any of the semester examinations subject to the condition that the candidate should register for all the arrear subjects of earlier semesters along with current (subsequent) semester subjects.

At the end of each semester, a cumulative grade point average (CGPA) and also Semester grade point average (SGPA) will be calculated as a weighted average of the GPI of all courses in which the student has passed till that semester.

A student who passes in all the courses will be declared to have passed M.Sc (Analytical/Organic/Inorganic Chemistry) with the following honours.

CGPI in [4.00, 4.99] -- Pass Class

CGPI in [5.00, 5.49] -- Second Class

CGPI in [5.50, 5.99] -- Higher Second Class

CGPI in [6.00, 6.99] -- First Class

CGPI in [7.00, 10.00] – First Class with Distinction.

7. STANDARD OF PASSING:

A candidate is required to obtain at least 24 marks out of 60 to pass in each paper at university examination. A candidate shall be declared to have passed in the paper provided he/she has secured an aggregate of 40% marks at university examination and internal assessment altogether or minimum 'D' grade and a GPI of 4.0 in aggregate of UE and IA in the internal assessment and university examination taken together in each paper.

8. GRADE POINT SCHEME-

The 10-point scale would be used to convert marks out of 100 to grades and grade points according to the following table:-

Marks as Percentage	Grade	Grade Point
[75.0, 100]	O	10.0
[70.0, 74.9]	A+	9.0
[65.0,69.9]	A	8.0
[60.0,64.9]	B+	7.0
[55.0,59.9]	B	6.0
[50.0,54.9]	C+	5.5
[45.0,49.9]	C	5.0
[40.0,44.9]	D	4.5
[00.0, 39.9]	F	0.0

GRACING:

The gracing shall be done as per existing rules of the University.

VERIFICATION AND REVALUATION:

There is provision for verification and revaluation of the result. A student can apply for the verification and revaluation of the result within the two weeks from the declaration of the results with the prescribed fee. The verification and revaluation shall be done as per the existing rules of the University.

8.3 : Master of Science (M.Sc. Microbiology) (CBCS 2018 COURSE)(To be implemented from June 2018)

1. Structure of M.Sc. (Microbiology) CBCS degree program

The overall structure of the course to be implemented from the academic year 2018-2019 onwards is as follows.

- A. The M.Sc. (Microbiology) course will be of 2 years duration. Each year will be of 2 semesters - Thus the entire course will be of 4 semesters.
- B. First, Second and Fourth semester will comprise of four theory and two practical courses each.
- C. Third semester will be totally for Internship (Major project).
- D. Entire M.Sc. course in Microbiology shall be covered in 14 theory papers including 'Ability enhancement course' and 'Skill enhancement course', 6 practical courses, and an Internship (major project with Dissertation). Each theory paper will be covered in 4 lectures of one hour per week. Each practical course shall be covered in two practical turns of four clock hours per week. Thus, the students will work for each practical on two days of the week, daily for at minimum four hrs. Students will be given eight hrs in a week for library work.
- E. Students will have to complete an Internship program (Major project with dissertation) so as to learn research methodology and presentation of work. The Internship (major project with dissertation) shall carry 200 marks. The students will work for their projects, complete the experimental work in third semester, and complete the writing part of the project during the winter break. Minimum number of students participating in a project will be two and maximum number of students would be four. The assessment of the project will be at beginning of the fourth semester which includes the presentation and viva-voce by external and internal examiner

Semester I			Semester II		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
THEORY : Core Compulsory	PGMB101	Biochemistry	Core: Compulsory	PGMB201	Fermentor Design and Microbial Biotechnology
	PGMB102	Immunology		PGMB202	Analytical techniques
	PGMB103	Genetics and Molecular biology		PGMB203	Quantitative Biology
Core Elective	Any one from the following:		Core Elective	Any one from the following:	
	PGMB104	Microbial Ecology		PGMB204	Microbial Metabolism
	PGMB105	Environmental Microbiology		PGMB205	Physiology and Metabolism
Practical Course	PGMB111	Practical course 1	Practical Course	PGMB211	Practical course 3
	PGMB112	Practical course 2		PGMB212	Practical course 4
			Ability Enhancement Course	PGAEC201	Scientific Writing

SEMESTER-III

Subject Type	Code	Title of the paper
Core: Compulsory	PGMB 304	Internship (major project).
	PGMB305	Internship (major project).

SEMESTER-IV

Subject Type	Code	Title of the paper
Core: Compulsory	PGMB 401	Virology
	PGMB 402	Medical Microbiology
	PGMB 403	Food and Dairy Microbiology
Core: Elective	Any one from the following:	
	PGMB 404	Advanced Biotechnology
	PGMB 405	Advanced Analytical Techniques
Practical Course	PGMB 411	Practical course 5
	PGMB 412	Practical course 6
Skill Enhancement Course	PGSEC 401	Bioinformatics

2. Rules for the examination: -

- A. A candidate shall not be admitted to the semester examination unless he / she has satisfactorily kept terms for the courses at the respective department of this university.
- B. An application (which must be in the prescribed form and accompanied by the prescribed fee) for admission to any of the examination of M.Sc. (Microbiology Degree course shall be submitted by a candidate to the Registrar through the Head of the Institution attended by him / her on or before the prescribed date along with a certificate from the Head of the Institution having attended the course and kept the terms in the various subjects and of having satisfied the other conditions laid down by the university and of being fit candidate for the examination.
- C. Assessment pattern

a. **Continuous Internal Assessment :**

Theory: Three Tutorials will be conducted through out the semester for each theory course and marks out of 40 per course will be submitted to the university as Internal marks.

Practical: Internal marks for the practical course will be based on the continuous assessment of the daily work, orals, seminars/presentations; Tour/visit reports, class tests, literature review and attendance(Any two). Students will be assessed for 40 marks for each practical course.

b. **Annual Examination :**

Theory: An University examination will be held at the end of every semester. This Examination in each subject will be of 60 marks for three hours duration

The final result of the students in each subject will be based on Final GPA obtained by the students for the internal assessment and University Examination.

Practical: There shall be Annual practical examination of 60 marks at the end of 2nd and 4th Semester.

The practical examination for the courses PGMB 111, PGMB 112, PGMB 211, and PGMB 212 will be conducted at the end of second semester. Practical examination for courses PGMB 411 and PGMB 412 will be conducted at the end of fourth semester. Practical courses PGMB 311 PGMB 312 are allotted for Internship. The assessment for the said courses will be as follows.

Project Work: Students have to undertake a major project so as to learn research methodology and presentation of work. The project shall carry 200 marks which will be allotted as follows:

Project experimental work (140 marks)

Assessment by the external examiner : 70 marks

Assessment by the project guide : 70 marks

Presentation of the project (40 marks)

Assessment by the external examiner : 20 marks

Assessment by the guide – (day to day) : 20 marks

Two seminars presentations (20 marks) : (10 marks per seminar)

Seminars in the third semester on the project work

The assessment for the said courses will be conducted at the beginning of the fourth semester.

The student will be assessed on the basis of following criteria for 140 marks.

- (i) Choice of the topic selected for the project.
- (ii) Aims and objectives of the project.
- (iii) Updated literature survey.
- (iv) Novel and other applications of the project (can a patent be filed on further work).Materials and methodology used.
- (v) Out come and Achievements of the project.
- (vi) Conclusion.
- (vii) Presentation of the project. (methodology of presentation)

Award of the Grade will be based on the following criteria.

c. Rules regarding ATKT to second year M.Sc. Microbiology course.

A student will be allowed to keep terms at the second year of the M.Sc. course if her / his terms for the first year have been granted.

d. Standard of passing :

- i. The candidate who has obtained at least D grade shall be declared to have passed in the said course.
- ii. The candidate who has not secured C grade in a particular paper in the University Examination will have to secure at least C grade in the subsequent examination in the particular paper.:

A) The 10-point scale would be used to convert marks out of 100 to grades and grade points according to the following table:-

Marks as Percentage	Grade	Grade Point
[75.0, 100]	O	10.0
[70.0, 74.9]	A+	9.0
[65.0,67.9]	A	8.0
[60.0,64.9]	B+	7.0
[55.0,59.9]	B	6.0
[50.0,54.9]	C+	5.5
[45.0,49.9]	C	5.0
[40.0,44.9]	D	4.5
[00.0, 39.9]	F	0.0

(B) For courses which have both University Examination (UE) and Internal Assessment(IA):

In order to pass in a course, the student must obtain a minimum of 'D' grade at the UE and a GPI of 4.0 in aggregate of UE and IA. There is no separate passing in IA. The GPI is calculated only if the student passes at UE by combining percentage marks at UE and IA with weights 0.6 and 0.4 respectively. A student who fails has to clear the course by appearing at UE only as a back-log candidate.

(C) For courses which have no University Examination:

There are some courses, the General courses, for which there is no UE. The respective institutes conduct 'continuous assessment' and EoTE(End of term examination).For such courses the computation of GPI, passing criteria, and back-log clearing rules are as in (B) above.

(D) At the end of each semester, a cumulative grade point average (CGPA) will be calculated as a weighted average of the GPI of all courses in which the student has passed till that semester.

(E) A student who passes in all the courses will be declared to have passed the entire M.Sc (Microbiology) with the following honours.

CGPI in [4.00, 4.99] -- Pass Class

CGPI in [5.00, 5.49] -- Second Class

CGPI in [5.50, 5.99] -- Higher Second Class

CGPI in [6.00, 6.99] -- First Class

CGPI in [7.00, 10.00] -- Distinction.

(F) PROMOTION RULES:

A student will be allowed to keep all terms for the duration of the programme.

(G) Continuous Assessment (CA)

40% marks of the course towards CA will be based on tests (Minimum 2). In addition, a teacher may consider one or more of the following evaluation systems:-

i) Seminar /presentation by the student

ii) Assignment by the student

Each theory paper is of 60 marks and internal paper is for 40 marks.

Each practical examination for lab course is of 60 marks and four hour duration for three consecutive days.. The project courses in Semester III will be evaluated for 200 marks for the allotted credits by a panel consisting of one internal and one external examiner.

**8.4 : Master of Computer Science
(M.Sc. Computer Science)
(CBCS 2018 COURSE) (To be implemented from 2018)**

1. Course Structure

The M.Sc. (Computer Science) course will be two year full time course consisting of minimum four semesters and with a minimum of 94 credits. The medium of instruction and examination will be only English. The credit allotment for M.Sc.(Computer Science) course : Semester I (24 Credits), Semester II (26Credits), Semester III (26 Credits), and Semester IV (18 Credits). In each Semester, there will be four papers(three core compulsory and one core elective) of 100 marks each, two Laboratory course and minor project for each Semester of 100 marks each, out of which 40 marks will be for internal assessment and 60 marks for university examination. Fourth semester is internship for 200 marks. Thus M.Sc.(Computer Science) degree examination, four semesters shall be 2400 marks and of minimum 94credits altogether . The following shall be the course structure:

Semester I			Semester II		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core: Compulsory	PGCS-101	Algorithm Design Patterns	Core: Compulsory	PGCS-201	Software Project
	PGCS-102	Paradigm of programming Languages		Management	
	PGCS-103	Advanced Database Concepts		PGCS-202	Cloud Computing
	PGCS-MI	Minor Project –I		PGCS-203	Java Application Programming
Core: Elective	Any one from the following:		Core: Elective	Any one from the following:	
	PGCS-104	Parallel Processing		PGCS-204	Network Security
	PGCS-105	Theory of Automata		PGCS-205	Embedded Computing
	PGCS-106	Digital Image Processing		PGCS-206	Data Mining

Semester I			Semester II		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Elective : Practical's	Any two from the following:		Elective : Practical's	Any two from the following:	
	PGCS-107	Lab Course –I		PGCS-207	Lab Course –IV
	PGCS-108	Lab Course –II		PGCS-208	Lab Course –V
	PGCS-109	Lab Course –III		PGCS-209	Lab Course –VI
			Ability Enhancement Course	PGAEC 11	Soft Skills

SEMESTER III

Semester	Subject Type	Code	Title of the paper	
Semester III	Core:Compulsory	PGCS-301	Artificial Intelligence	
		PGCS-302	Mobile Technologies	
		PGCS-303	.Net Technologies	
		PGCS-MIII	Minor Project –III	
	Core: Elective	Any one from the following:		
		PGCS-304	Software Architecture	
		PGCS-305	Software Testing	
		PGCS-306	Advanced Operating System	
	Elective Practical's	Any two from the following:		
		PGCS-307	Lab Course –VII	
		PGCS-308	Lab Course –VIII	
		PGCS-309	Lab Course –IX	
	Skill Enhancement Course		PGSEC 31	Android Programming

SEMESTER IV

Semester	Course Number	Course Title
Semester IV	PGCS-401	Internship

5. Scheme of Examination:

In order to pass in a course, the student must obtain a minimum of 'D' grade at the UE and a GPI of 4.5 in aggregate of University Examination and Internal Assessment. For each paper of 100 marks, there will be internal assessment of 40 marks and the university examination of 60 marks for 3 hours duration.

The Internal Assessment (IA) of each course will be for 40 marks and conducted by the college during the term. The assessment may be based on evaluations of the following: Written tests, seminar/presentation by the student, assignment, orals or any other. Hence there must be at least two evaluations of different kind.

Each practical examination for laboratory course is of 100 marks and three hours duration. The minor projects in Semesters I, II and III will be evaluated for 100 marks for the allotted credits by a panel consisting of one internal and one external examiner. For both laboratory course and minor project, there will be internal assessment of 40 marks and the university examination of 60 marks.

A candidate shall be permitted to proceed from the first semester upto final semester irrespective of their failure in any of the semester examinations subject to the condition that the candidate should register for all the arrear subjects of earlier semesters along with current (subsequent) semester subjects.

At the end of each semester, a cumulative grade point average (CGPA) and also Semester grade point average (SGPA) will be calculated as a weighted average of the GPI of all courses in which the student has passed till that semester.

A student who passes in all the courses will be declared to have passed the entire M.Sc (Computer Science) with the following honours.

CGPA in [4.00, 4.99]	-- Pass Class
CGPA in [5.00, 5.49]	-- Second Class
CGPA in [5.50, 5.99]	-- Higher Second Class
CGPA in [6.00, 7.99]	-- First Class
CGPA in [8.00, 10.00]	-- First Class with Distinction

6. STANDARD OF PASSING:

A candidate shall be declared to have passed in the paper provided he/she has secured minimum GP of 4.5 in the University Examination and a GPA of 4.0 in aggregate of University Examination and Internal Assessment taken together.

A student who passes in all the courses will be declared to have passed M.Sc (Computer Science) with the following honours.

CGPA in [4.00, 4.99]	-- Pass Class
CGPA in [5.00, 5.49]	-- Second Class
CGPA in [5.50, 5.99]	-- Higher Second Class
CGPA in [6.00, 7.99]	-- First Class
CGPA in [8.00, 10.00]	-- First Class with Distinction

7. Scheme of credits:

The M.Sc(Comp.Sci) is of 94credits. The distribution of credits over semesters is given below.

Semester	Total credits
SEM I	24
SEM II	26
SEM III	26
SEM IV	18
Total	94

4 Credits	:	4 lectures per week
2 Credits	:	4 hours practical per week

8. Grade point scheme:

The 10-point scale would be used to convert marks out of 100 to grades and grade points according to the following table:

Marks as Percentage	Grade	Grade Point
[75.0, 100]	O	10.0
[70.0, 74.9]	A+	9.0
[65.0,69.9]	A	8.0
[60.0,64.9]	B+	7.0
[55.0,59.9]	B	6.0
[50.0,54.9]	C+	5.5
[45.0,49.9]	C	5.0
[40.0,44.9]	D	4.5

9. GRACING:

The gracing shall be done as per existing rules of the University.

10. VERIFICATION AND REVALUATION:

There is provision for verification and revaluation of the result. A student can apply for the verification and revaluation of the result within the two weeks from the declaration of the results with the prescribed fee. The verification and revaluation shall be done as per the existing rules of the University.

8.5 : Master of Commerce (M. Com.) (CBCS 2018 Course) (To be implemented from June 2018)

1. Course Structure:

The M. Com. degree course will be of two year duration consisting of four semesters and of minimum 100 credits as below:

Sr.	Semester	Total Credits
1	Semester I	16
2	Semester II	18
3	Semester III	18
4	Semester IV	18
	Grand Total	70

In each Semester, there will be four papers of 100 marks each out of which 40 marks will be for Internal Assessment (attendance, home assignments, class tests, long term papers, classroom presentations) and 60 marks for University Examination. Thus M. Com. degree examination, four Semesters shall be of 1600 marks and of minimum 100 credits altogether. The following shall be the course structure.

Semester I			Semester II		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Compulsory	PGCO M101	Business Finance-I	Core Compulsory	PGCOM 201	Business Finance-II
	PGCO M102	Management Concepts & Organisational Behaviour-I		PGCOM 202	Management Concepts & Organisational Behaviour-II
Core Elective	To choose any one Group of the following:		Core Elective	To choose any one Group of the following:	
	Group A			Group A	
	PGCO M 103	Advanced Accounting-I		PGCOM 203	Advanced Accounting-III
	PGCO M 104	Advanced Accounting-II		PGCOM 204	Advanced Accounting-IV
	Group B			Group B	
	PGCO M 105	Marketing-I		PGCOM 205	Marketing-III
	PGCO M 106	Marketing-II		PGCOM 206	Marketing-IV
	Group C			Group C	
	PGCO M 107	Business Administration-I		PGCOM 207	Business Administration-III
	PGCO M 108	Business Administration-II		PGCOM 208	Business Administration-IV
	Group D			Group D	
	PGCO M 109	Advanced Cost Accounting-I		PGCOM 209	Advanced Cost Accounting-III
	PGCO M 110	Advanced Cost Accounting-II		PGCOM 210	Advanced Cost Accounting-IV
		Skill Enhancement Course	This Paper is compulsory for all Students		
			PGGEN 21	Consumer Protection	

Semester III			Semester IV		
Subject Type	Code	Title of the paper	Subject Type	Code	Title of the paper
Core Compulsory	PGCO M301	Management Accounting -I	Core Compulsory	PGCOM 401	Management Accounting -II
	PGCO M302	Research Methodology-I		PGCOM 402	Research Methodology-II(Project Report)
Core Elective	To choose any one Group of the following:		Core Elective	To choose any one Group of the following:	
	Group A			Group A	
	PGCO M 303	Advanced Accounting-V		PGCOM 403	Advanced Accounting-VII
	PGCO M 304	Advanced Accounting-VI		PGCOM 404	Advanced Accounting-VIII
	Group B			Group B	
	PGCO M 305	Marketing-V		PGCOM 405	Marketing-VII
	PGCO M 306	Marketing-VI		PGCOM 406	Marketing-VIII
	Group C			Group C	
	PGCO M 307	Business Administration-V		PGCOM 407	Business Administration-VII
	PGCO M 308	Business Administration-VI		PGCOM 408	Business Administration-VIII
	Group D			Group D	
	PGCO M 309	Advanced Cost Accounting-V		PGCOM 409	Advanced Cost Accounting-VII
	PGCO M 310	Advanced Cost Accounting-VI		PGCOM 410	Advanced Cost Accounting-VIII
	Ability Enhancement Course	This Paper is compulsory for all Students			
PGGE N 31		Income Tax Management			

5. Scheme of Examination:

The examination of regular students of M. Com. degree course of the Bharati Vidyapeeth (Deemed to be University), Pune, India admitted in the academic session 2018-19 and after shall be based on-

- (a) Semester Examinations,
- (b) Continuous Assessment,
- (c) Choice Based Credit System, and
- (d) Semester Grade Point Average and Cumulative Grade Point Average System

For each paper of 100 marks, there will be an Internal Assessment (IA) of 40 marks and the University Examination (UE) of 60 marks/3 hours duration at the end of each semester. A candidate who will secure atleast 40% of marks allotted to each paper will be given 4 credits. A candidate who does not pass the examination in any subject or subjects in one semester will be permitted to reappear in such failed subject or subjects along with the papers of following semesters.

The IA for each paper will be of 40 marks which will be carried out by the department during the term. The IA may be in the forms of written tests, seminars, term papers, presentations, assignments, orals or any such others. Here will be at least two types of assessments given above.

There shall be four semester examinations: first semester examination at the middle of the first academic year and the second semester examination at the end of the first academic year. Similarly, the third and fourth semester examinations shall be held at the middle and the end of the second academic year, respectively.

The candidates shall be permitted to proceed from the first semester up to final semester irrespective of their failure in any of the semester examinations subject to the condition that the candidates should register for all the arrear subjects of earlier semesters along with current (subsequent) semester subjects

At the end of each semester, a cumulative grade point (CGPA) & also semester grade point average (SGPA) will be calculated as a weighted average of the GPI of all course in which the student has passed till that semester.

6. Research Project Work:

There will be a Research Project to be prepared by a student during the fourth semester. The objective of the project work is to introduce students to research methodology in the subject and prepare them for pursuing research in theoretical or experimental or computational areas of the subject. The project work is to be undertaken under guidance of a teacher allotted to a student by the department.

Division of Marks

Synopsis with working bibliography (Internal Assessment) : 40 Marks

A full Project Report (Minimum 50-80 pages) : 40 Marks

Viva Voce : 20 Marks

As the Research Project is based on the self study done by the candidate and evaluated for 100 marks altogether, 6 credits will be awarded to a successful candidate in this subject. The project may be evaluated by two examiners one internal and one external, selected from the panel of PG examiners of the University. The viva voce must be conducted by the teachers selected out of the panel of PG examiners maintained by the University.

The candidate has to submit the project Report on or before the date declared by the department. The project report shall be typed and submitted in duplicate. A candidate who fails to submit the project may resubmit the same in the subsequent semester examination for evaluation. The project work activities must be duly supported by documentary evidence to be endorsed by the Head or Guide.

7. Standard of Passing:

A candidate shall be declared to have passed in the paper provided he/she has secured minimum GP of 4.5 in the UE and a GPA of 4.0 in aggregate of UE and IA taken together.

8. Classification of Successful Candidates:

Candidates who secured not less than 60% of aggregate marks (IA+UE) in the whole examination shall be declared to have passed the examination in the first class. All other successful candidates shall be declared to have passed in second

class. Candidates who obtain 70% of the marks in the aggregate (IA+UE) shall be deemed to have passed the examination in first class with distinction.

A student who passes in all the courses will be declared to have passed the M. Com. degree with the following honours.

CGPA in [4.00, 4.99]	-- Pass Class
CGPA in [5.00, 5.49]	-- Second Class
CGPA in [5.50, 5.99]	-- Higher Second Class
CGPA in [6.00, 7.99]	-- First Class
CGPA in [8.00, 10.00]	-- First Class with Distinction

9. Scheme of Credits:

Sixty (60) hours of teaching will lead to four credits (which mean four hours per week teaching in one semester) and long term paper as well as presentation will carry one credit each.

10. Medium of Instruction:

The medium of instruction and examination shall be in English. However, students can write their papers in Marathi also.

11. Extra Credits:

Regular students can also opt for extra credits if the departmental committee agrees. A student must at the commencement of the semester communicate which extra credits he/she is going to opt. A student can enroll for extra credits over and above the total 70 credits prescribed for the course by attending and appearing for the examination of the opted extra credits. However, in such case grades of the extra credit will not be counted for arriving at GPA.

The extra credit course can be selected from within the institute or any other faculties of Bharati Vidyapeeth University offering courses for Faculty of Arts, Social Sciences and Commerce or Faculty of Science, which will be declared at the commencement of session. Such extra credits will be mentioned separately in the grade sheet.

12. Grade Points Scheme:

The term grading system indicates a 10-point scale of evaluation of the performances of students in terms of marks obtained in the Internal and External Examination, grade points and letter grade. The total performance within a semester and continuous performance starting from the first semester are indicated respectively by Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA). Candidates who pass all the examinations prescribed for the course in the first appearance itself alone are eligible for Ranking.

The 10-point scale would be used to convert marks out of 100 to grades and grade points according to the following table:

Marks as Percentage	Grade	Grade Point
[75.0, 100]	O	10.0
[70.0, 74.9]	A+	9.0
[65.0,69.9]	A	8.0
[60.0,64.9]	B+	7.0
[55.0,59.9]	B	6.0
[50.0,54.9]	C+	5.5
[45.0,49.9]	C	5.0
[40.0,44.9]	D	4.5
[00.0, 39.9]	F	0.0

GRACING:

The gracing shall be done as per existing rules of the University.

VERIFICATION AND REVALUATION:

There is provision for verification and revaluation of the result. A student can apply for the verification and revaluation of the result within the two weeks from the declaration of the results with the prescribed fee. The verification and revaluation shall be done as per the existing rules of the University.



9. : COURSE STRUCTURE (PG PROGRAMME) (2012 Course)

9.1 : COURSE STRUCTURE FOR M.A. (ENGLISH) :

(CBCS 2012 course) (For Second Year only)

M.A. (English) SEMESTER - III (CBCS)

Subject Type	Code	Title of the paper	Credits	Maximum Marks
Core: Compulsory	PGENG 31	Literature in English from 1832 to 1980 - I	06	100
	PGENG 32	Contemporary Critical Thoughts - I	06	100
	PGENG 33	Research Methodology - I	06	100
Core: Elective	Any one from the following:			
	PGENG 34	Postcolonial Indian English Literature - I	06	100
	PGENG 35	Semantics and Pragmatics - I	06	100
	PGENG 36	Contemporary American Literature & Culture- I	06	100
	PGENG 37	World Classics in English Translation - I	06	100
Non-Core: Optional	To earn extra credits, a student may opt for any number of the following subject:			
	PGGEN 31	Soft Skills	02	50
	PGGEN 32	Clinical Biochemistry	02	50
	PGGEN 33	Income Tax Management	02	50

M.A. (English) SEMESTER - IV (CBCS)

Subject Type	Code	Title of the paper	Credits	Maximum Marks
Core: Compulsory	PGENG 41	Literature in English from 1832 to 1980 - II	06	100
	PGENG 42	Contemporary Critical Thoughts - II	06	100
	PGENG 43	Research Methodology - II (Project Report)	10	100
Core: Elective	Any one from the following:			
	PGENG 44	Postcolonial Indian English Literature - II	06	100
	PGENG 45	Semantics and Pragmatics - II	06	100
	PGENG 46	Contemporary American Literature and Culture - II	06	100
	PGENG 47	World Classics in English Translation - II	06	100

SCHEME OF EXAMINATION :

The assessment of regular students of Master of Arts (M.A.) English course in the academic session 2013-14 and after shall be based on

- (a) University Examinations,
- (b) Internal Assessment,
- (c) Choice Based Credit System, and
- (d) Semester Grade Point Average and Cumulative Grade Point Average system

For each paper of 100 marks, there will be Internal Assessment of 40 marks and the University Examination of 60 marks/3 hours duration at the end of each semester. The 06 credits will be given to a student who secures atleast 40% of marks allotted to each paper. A candidate who does not pass the examination in any subject or subjects in one semester will be permitted to reappear in such failed subject or subjects along with the papers of following semesters.

The Internal Assessment (IA) for each paper will be of 40 marks which will be carried out by the department during the term. The Internal Assessment may be in the forms as follows: Attendance, written tests, seminars, term papers, presentations, assignments, oral or any such others. There will be at least two types of assessments from given above.

At the end of each semester, a Cumulative Grade Point Average (CGPA) and also Semester Grade Point Average (SGPA) will be calculated as a weighted average of the GPI of all courses in which the student has passed till that semester.

A candidate shall be permitted to proceed from the First Semester up to Final Semester irrespective of his/her failure in any of the Semester examinations subject to the condition that the candidates should register for all the arrear subjects of earlier semesters along with current (subsequent) semester subjects.

Research Project Work:

There will be a Research Project to be prepared by a student during the fourth semester. The objective of the project work is to introduce students to research methodology in the subject and prepare them for pursuing research in theoretical or experimental or computational areas of the subject. The project work is to be undertaken under guidance of a teacher allotted to a student by the department.

Division of Marks

Synopsis with working bibliography (Internal Assessment)	40 Marks
A full Project Report (Minimum 50-80 pages) (University Assessment)	40 Marks
Viva Voce (University Assessment)	20 Marks

As the Research Project is based on the self study done by the candidate and evaluated for 100 marks altogether, 10 credits will be awarded to a successful candidate in this subject. The project may be evaluated by two examiners one internal and one external, selected from the panel of PG examiners of the University.

The candidate has to submit the project 15 days before the commencement of the fourth semester university examination. A candidate who fails to submit the project may resubmit the same in the subsequent semester examination for evaluation. The project work activities must be duly supported by documentary evidence to be endorsed by the Head or Guide.

**9.2 : M.Sc. (Chemistry)
(CBCS) (2012 Course) (Only for Second Year)**

Subject Type	Code	Title of the paper	Credits	Maximum Marks
Core: Compulsory	PGAC 301	Thermal, Radio and Electro-Analytical Methods	5	100
	PGAC 302	Modern Aspects of Analytical Chemistry	5	100
	PGAC 303	Recent Analytical Techniques	5	100
	PGAC 304	Analysis of Pharmaceuticals	5	100
	PGAC 407	Practical Course -I*	2	100
	PGAC 408	Practical Course - II*	2	100
	PGAC409	Practical Course - III*	2	100
Non-Core: Optional	To earn extra credits, a student may opt for any number of the following subjects:			
	PGGEN-31	Developing Soft Skills	2	50
	PGGEN-32	Clinical Biochemistry	2	50
	PGGEN-33	Income Tax Management	2	50

M.Sc. (Analytical Chemistry) SEMESTER-IV (CBCS)

Subject Type	Code	Title of the paper	Credits	Maximum Marks
Core: Compulsory	PGAC 401	Advanced Analytical Techniques	5	100
	PGAC 402	Recent Separation Techniques	5	100
	PGAC 407	Practical Course -I*	3	100
	PGAC 408	Practical Course -II*	3	100
	PGAC 409	Practical Course -III * OR Project Work	3	100
Core: Elective	To earn extra credits, a student may opt for any number of the following subjects:			
	PGAC 403	Environmental Analysis	3	100
	PGAC-404	Computer Interface with Chemistry	3	100
	PGAC-405	Modern Methods of Analysis	3	100
	PGAC 406	Industrial Project #	2	100

* University examination for practical courses PGAC407, PGAC408, PGAC409 will be conducted at the end of the Fourth Semester although these practicals are conducted in Sem. III & Sem. IV.

Industrial project includes one day visit, internet survey, project writing, presentation or oral.

**9.3 : M.SC. (MICROBIOLOGY)
(CBCS) (2012 COURSE) (Only for Second Year)**

M.Sc. (Microbiology) SEMESTER III (CBCS)

Course Number	Course Title	Credits Value	Maximum Marks	
PGMB-311 PGMB-312	Internship	22	200	
M.Sc. (Microbiology) SEMESTER IV (CBCS)				
Subject Type	Code	Title of the paper	Credits Value	Maximum Marks
Core: Compulsory	PGMB-401	Virology	4	100
	PGMB-402	Medical Microbiology	4	100
	PGMB-403	Applied Microbiology	4	100
	PGMB-411	Lab Course -V	5	100
	PGMB-412	Lab Course -VI	5	100
Core: Elective	Any one from the following:			
	PGMB-404	Advanced Biotechnology	4	100
	PGMB-405	Advanced Analytical Techniques	4	100
Non-Core: Optional	To earn extra credits, a student may opt for any number of the following subjects:			
	PGGEN31	Developing Soft Skills	2	50
	PGGEN32	Clinical Biochemistry	2	50
	PGGEN33	Income Tax Management	2	50

SCHEME FOR THE EXAMINATION:

- a. A candidate shall not be admitted to the semester examination unless he / she has satisfactorily kept terms for the courses at the respective department of this university.
- b. An application (which must be in the prescribed form and accompanied by the prescribed fee) for admission to any of the examination of M.Sc. (Microbiology) Degree course shall be submitted by a candidate to the Registrar through the Head

of the Institution attended by him / her on or before the prescribed date along with a certificate from the Head of the Institution having attended the course and kept the terms in the various subjects and of having satisfied the other conditions laid down by the university and of being fit for the examination.

c. Continuous Internal Assessment :

Three Tutorials will be conducted throughout the semester for each theory course and marks out of 40 per course will be submitted to the university as Internal Assessment (IA). Internal marks for the practical course will be based on the continuous assessment of the daily work, orals, seminars/presentations, tour/visit reports, class tests, literature review and attendance (any two of the above). Students will be assessed for 40 marks for each practical course.

d. University Examination :

i. Theory: An University examination will be held at the end of every semester. This Examination in each subject will be of 60 marks for three hours duration.

The final result of the students in each subject will be based on Final GPA obtained by the students for the internal assessment and University Examination.

ii. Practical: There shall be annual practical examination of 60 marks at the end of 2nd and 4th Semester for each practical course (Lab Course).

The practical examination for the courses MB 111, MB 112, MB 211, and MB 212 will be conducted at the end of second semester. Practical examination for courses MB 411 and MB412 will be conducted at the end of fourth semester. The practical examination for every course will be conducted for minimum two days for 6 hrs per day.

iii. Project Work: Students have to undertake a major project so as to learn research methodology and presentation of work. Practical courses MB 311 MB 312 are allotted for project work which shall carry 200 marks. The assessment for the said courses will be as follows:

120 marks - (actual project work) Assessment by the external examiner and project guide for 60 marks each.

20 marks - (presentation of the project) Assessment by the external examiner.

20 marks - (Assessment by the guide) day to day project work.

30 marks- will be allotted to the two seminars (15 marks per seminar) presented in third semester on the project work.

10 marks- will be allotted for literature review which will be submitted at the time of second presentation.

The assessment for the said courses will be conducted at the beginning of the fourth semester.

The student will be assessed on the basis of following criteria for 120 marks.

- (i) Choice of the topic selected for the project.
- (ii) Aims and objectives of the project.
- (iii) Updated literature survey.
- (iv) Novel and other applications of the project (can a patent be filed on further work).Materials and methodology used.
- (v) Outcome and achievements of the project.
- (vi) Conclusion.
- (vii) Presentation of the project. (methodology of presentation)

9.4 : COURSE STRUCTURE FOR M.Sc. (Computer Science) (CBCS) (2012 COURSE) (Only for Second Year)

M.Sc. (Computer Science) SEMESTER - III (CBCS)

Subject Type	Code	Title of the paper	Credits Value	Maximum Marks
Core: Compulsory	PGCS-301	Artificial Intelligence	5	100
	PGCS-302	Mobile Technologies	5	100
	PGCS-303	Net Technologies	5	100
	PGCS-307	Lab Course -III	4	100
	PGCS-308	Minor Project -III	4	100
Core: Elective	Any one from the following:			
	PGCS-304	Soft Computing and Data Mining	5	100
	PGCS-305	Advanced Database Management Systems	5	100
	PGCS-306	Advanced Operating System	5	100
Non-Core: Optional	To earn extra credits, a student may opt for any number of the following subjects:			
	PGGEN31	Developing Soft Skills	2	50
	PGGEN32	Clinical Biochemistry	2	50
	PGGEN33	Income Tax Management	2	50

M.Sc. (Computer Science) SEMESTER - IV (CBCS)

Course Number	Course Title	Credits Value	Maximum Marks
PGCS-401	Internship	16	200

SCHEME OF EXAMINATION:

In order to pass in a course, the student must obtain a minimum GP of 4.5 at the UE and a GPI of 4.5 in aggregate of University Examination and Internal Assessment .For each paper of 100 marks , there will be internal assessment of 40 marks and the university examination of 60 marks for 3 hours duration.

The Internal Assessment (IA) of each course will be for 40 marks and conducted by the college during the term. The assessment may be based on evaluations of the following: Written tests, seminar/presentation by the student, assignment, orals or any other. Hence there must be at least two evaluations of different kind.

Each practical examination for laboratory course is of 100 marks and three hour duration. The minor projects in Semesters I, II and III will be evaluated for 100 marks for the allotted credits by a panel consisting of one internal and one external examiner. For both laboratory course and minor project, there will be internal assessment of 40 marks and the university examination of 60 marks.

A candidate shall be permitted to proceed from the first semester upto final semester irrespective of their failure in any of the semester examinations subject to the condition that the candidate should register for all the arrear subjects of earlier semesters along with current(subsequent)semester subjects.

At the end of each semester, a Cumulative Grade Point Average (CGPA) and also Semester Grade Point Average (SGPA) will be calculated as a weighted average of the GPI of all courses in which the student has passed till that semester.

Internship

The assessment for 16 credits in Internship during IV semester of M.Sc. (Computer science) will be as follows:

- i) A student will inform the department about the joining date of the above mentioned training.
- ii) The student will have to make two presentations at the mid of the training and at the end of the training programme. The student will have to submit a compiled report which will be assessed towards course credit.

Upon completion of the Internship, the student will submit a report based on the work done. The report will be evaluated based on viva and presentation by one internal examiner, one external examiner and industry expert. The internship assessment will for 200 marks, out of which 80 marks will be evaluated by internal examiner and 120 marks will be evaluated by external examiner and industry expert.

**9.5 : COURSE STRUCTURE FOR M.Com.
(CBCS) (2012 COURSE) (Only for Second Year)**

M.Com. SEMESTER III (CBCS)

Subject Type	Code	Title of the paper	Credits Value	Maximum Marks
Core	PGCOM 301	Management Accounting -I	06	100
Compulsory	PGCOM 302	Research Methodology-I	06	100
Core Elective	Any one Group from the following:			
	Group A			
	PGCOM 303	Advanced Accounting-V	06	100
	PGCOM 304	Advanced Accounting-VI	06	100
	Group B			
	PGCOM 305	Marketing-V	06	100
	PGCOM 306	Marketing-VI	06	100
	Group C			
	PGCOM 307	Business Administration-V	06	100
	PGCOM 308	Business Administration-VI	06	100
	Group D			
	PGCOM 309	Advanced Cost Accounting-V	06	100
	PGCOM 310	Advanced Cost Accounting-VI	06	100
Non-Core Optional	To earn extra credits, a student may opt for any number of the following subjects:			
	PGGEN 31	Developing Soft Skills	02	50
	PGGEN 32	Clinical Biochemistry	02	50
	PGGEN 33	Income Tax Management	02	50

M.Com. SEMESTER IV (CBCS)

Subject Type	Code	Title of the paper	Credits Value	Maximum Marks
Core Compulsory	PGCOM 401	Management Accounting -II	06	100
	PGCOM 402	Research Methodology-II (Project Report)	10	10
Core Elective	Any one Group from the following:			
	Group A			
	PGCOM 403	Advanced Accounting-VII	06	100
	PGCOM 404	Advanced Accounting-VIII	06	100
	Group B			
	PGCOM 405	Marketing-VII	06	100
	PGCOM 406	Marketing-VIII	06	100
	Group C			
	PGCOM 407	Business Administration-VII	06	100
	PGCOM 408	Business Administration-VIII	06	100
	Group D			
	PGCOM 409	Advanced Cost Accounting-VII	06	100
	PGCOM 410	Advanced Cost Accounting-VIII	06	100

SCHEME OF EXAMINATION:

The examination of regular students of M. Com. degree course of the Bharati Vidyapeeth University admitted in the academic session 2012-13 and after shall be based on-

- (a) Semester Examinations,
- (b) Continuous Assessment,
- (c) Choice Based Credit System, and
- (d) Semester Grade Point Average and Cumulative Grade Point Average System

For each paper of 100 marks, there will be an Internal Assessment (IA) of 40 marks and the University Examination (UE) of 60 marks/3 hours duration at the end of each semester. A candidate who will secure atleast 40% of marks allotted to each paper will be given 6 credits. A candidate who does not pass the examination in any subject or subjects in one semester will be permitted to appear in such failed subject or subjects along with the papers of following semesters.

The IA for each paper will be of 40 marks which will be carried out by the department

during the term. The IA may be in the forms of written tests, seminars, term papers, presentations, assignments, oral or any such others. There will be at least two types of assessments given above.

There shall be four semester examinations: first semester examination at the middle of the first academic year and the second semester examination at the end of the first academic year. Similarly, the third and fourth semester examinations shall be held at the middle and the end of the second academic year, respectively.

The candidates shall be permitted to proceed from the first semester up to final semester irrespective of their failure in any of the semester examinations subject to the condition that the candidates should register for all arrear subjects of earlier semesters along with current (subsequent) semester subjects.

Research Project Work:

There will be a Research Project to be prepared by a student during the fourth semester. The objective of the project work is to introduce students to research methodology in the subject and prepare them for pursuing research in theoretical or experimental or computational areas of the subject. The project work is to be undertaken under guidance of a teacher allotted to a student by the department.

Division of Marks :

Synopsis with working bibliography (Internal Assessment) : 40 Marks

A full Project Report (Minimum 50-80 pages) (University Assessment) : 40 Marks

Viva Voce (University Assessment) : 20 Marks

As the Research Project is based on the self study done by the candidate and evaluated for 100 marks altogether, 10 credits will be awarded to a successful candidate in this subject. The project may be evaluated by two examiners one internal and one external, selected from the panel of PG examiners of the University. The viva voce will be conducted by the teachers selected out of the panel of PG examiners maintained by the University.

The candidate has to submit the project 15 days before the commencement of the fourth semester university examination. The project report shall be type-written and submitted in duplicate (Soft and Hard Copy). A candidate who fails to submit the project may resubmit the same in the subsequent semester examination for evaluation. The project work activities must be duly supported by documentary evidence to be endorsed by the Head or Guide.

**BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), PUNE, INDIA
YASHWANTRAO MOHITE COLLEGE OF ARTS, SCIENCE & COMMERCE, PUNE-38**

10.1 : FEE STRUCTURE

UNDER GRADUATE (GRANT-IN-AID SECTION)

ACADEMIC YEAR 2017-2018

CLASS	FEES													Total Fee
	(Rs.)													
1	Admission Fee	2	3	4	5	6	7	8	9	10	11	12	13	14
F.Y.B.A.(Sem I & II)	10	800	0	100	200	50	50	50	50	50	100	100	250	1760
S.Y.B.A.(Sem II & III)	10	800	0	100	200	200	50	0	50	50	100	100	300	1760
T.Y.B.A.(Sem IV & V)	10	800	0	100	200	200	50	0	50	50	100	100	300	1760
F.Y.B.SC.(Sem I & II)	10	800	325	100	200	200	50	50	50	50	100	100	300	2135
S.Y.B.SC.(Sem II & III)	10	800	325	100	200	200	50	0	50	50	100	100	300	2085
T.Y.B.SC.(Sem IV & V)	10	800	325	100	200	200	50	0	50	50	100	100	300	2085
F.Y.B.Com.(Sem I & II)	10	800	0	100	200	200	50	50	50	50	100	100	250	1760
S.Y.B.Com.(Sem II & III)	10	800	0	100	200	200	50	0	50	50	100	100	300	1760
T.Y.B.Com.(Sem IV & V)	10	800	0	100	200	200	50	0	50	50	100	100	300	1760

NOTE :

- 1) Every International student has to pay Rs. 1000/- as Medical check up & HIV Test fees and Tuition fees five times than that of Maharashtra student.
- 2) The International students seeking admission to Bachelor Degree should pay eligibility fee US \$400, and for Master Degree US \$500.
- *3) Students other than Maharashtra State should pay the Tuition fee double to the fees of regular Maharashtra State students.
- 4) The students offering computer application subject should pay Rs. 7,000/- as additional laboratory fee every year.

**BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), PUNE, INDIA
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COMMERCE, PUNE-38**

10.2 : FEE STRUCTURE

**Under-Graduate & Post-Graduate (Non Grant Section)
ACADEMIC YEAR 2018-2019**

Sr.No.	Class	Adm. Fee	Tuition Fee	Total Fee
1	F.Y. B.Sc. (Comp. Sc.)	500	27000	27500
2.	S.Y. B.Sc. (Comp. Sc.)	500	27000	27500
3.	T.Y. B.Sc. (Comp. Sc.)	500	27000	27500
4.	M.Sc. I (Chemistry)	500	35000	35000
5.	M.Sc. II (Chemistry)	500	30000	30500
6.	M.Sc. I (Microbiology)	500	35000	35500
7.	M.Sc. II (Microbiology)	500	35000	35500
8.	M.Sc. I (Computer Science)	500	35000	35500
9.	M.Sc. II (Computer Science)	500	35000	35500
10.	M.A. I	500	11000	11500
11.	M.A. II	500	11000	11500
12.	M.Com. I	500	11000	11500
13.	M.Com. II	500	11000	11500

NOTE :

- 1) Every International student has to pay Rs. 1,000/- as Medical Check up & HIV Test fees and Tuition fees five times than that of Maharashtra student.
- 2) The International students seeking admission to Bachelor Degree should pay eligibility fee US \$400 and for Master Degree US\$ 500.

● **Refund of Fees**

1. If a student submits his application for cancellation of admission in a prescribed form duly completed within 15 calendar days from the date of admission to that particular course, 10 per cent of the total amount of tuition fees prescribed for the course will be deducted from the amount of tuition fees paid by him.

2. If a student submits his application for cancellation of admission in a prescribed form duly completed within 30 calendar days from the date of admission to that particular course, 25 per cent of the total amount of tuition fees prescribed for the course will be deducted from the amount of tuition fees paid by him.
3. If a student submits his application for cancellation of his admission after 30 calendar days from the date of admission to that particular course no refund of fees will be made
4. Under no circumstances other fees paid by the student will be refunded either in part or in full except the amount of college and university development fund.
5. If any student admitted to any of course leaves the course at any time after 90 calendar days after the date of his admission to that course in an academic year, he/she will be required to pay full amount of tuition fees for the entire Year of the course.

- **Hostel Accommodation**

Accommodation for boys and girls is available in the hostels. The students who have been admitted in the college will be eligible for admission in the hostel. They will have to apply separately in the prescribed form available in the hostel office.

- **Refund of Deposits**

A student should collect his/her deposit(s) within six months from the date of cancellation of his/her admission or within six months of completion of his/her course.

- **Grant of Terms**

The student will be granted terms and allowed to appear at university examination provided he has kept satisfactory **attendance of 75% for each subject / course / paper.**

- **Govt. Scholarships & Freeships**

Eligible and deserving students can avail of the facilities of various Govt. scholarships which are awarded on the basis of merit at S.S.C/H.S.C. examination and income of parents. This facility is not applicable for B.Sc. Computer Science students & Post Graduate Courses.

Scholarships

- 1) National Merit Scholarship
- 2) National Loan Scholarship
- 3) State Govt./Central Government Open Merit Scholarship
- 4) Scholarship to Children of Primary and Secondary School Teachers
- 5) Talent Development in Maths and Physics Scholarship.
- 6) Freedom Fighter
- 7) Physically Handicapped Students Scholarship
- 8) Central Government Minority Scholarship
- 9) Single Girl Child - Indira Gandhi Scholarship
- 10) North-East / State Government Scholarship

NOTE : It will be the sole responsibility of the student to apply for freeships/ scholarships in the prescribed form and before the prescribed date. The college will not be responsible for any loss of scholarship / freeship due to negligence on the part of the student. Merit scholarship/freeship will be awarded to the deserving students by the college.

● **Extra Curricular Activities**

The following extra curricular activities are provided to the students by the college.

- 1) National Cadet Corps (N.C.C.)
The College has N.C.C. facility.
- 2) National Service Scheme (N.S.S.)
Interested students may join N.S.S.
- 3) Debating, Art Circle, Science Association, Commerce Association and Ladies Association.
- 4) Indoor, Outdoor Games

- **Library**

The college has a well equipped library. Needy and deserving students are given books under the Book-Bank Scheme.

- **Gymkhana**

Adequate arrangements are made for games and sports. Special equipments are made available for the development of the Gymnasium Section. The facilities for following games are provided by the college.

Name of Games :

- | | |
|----------------|-------------------------------------|
| 1) Basket Ball | 7) Table Tennis |
| 2) Soft Ball | 8) Chess |
| 3) Foot Ball | 9) Wrestling |
| 4) Holly Ball | 10) Athletics |
| 5) Hand Ball | 11) Swimming |
| 6) Cricket | 12) Gymnasium & Other Indian Games. |

- **Earn and Learn Scheme**

Poor and meritorious students are given financial assistance under this scheme by providing some work to meet their expenses towards fees, books etc.

- **Medical Check-Up**

A medical check up is compulsory for all the students.

- **Student Safety Policy**

Bharati Vidyapeeth Deemed University provides facility of student safety policy for students studying in the Bharati Vidyapeeth Deemed University.

11: RULES OF DISCIPLINE

- 1) Students should be regular and punctual in attending classes, tutorials and submission of the term-work in various subjects. Terms shall not be granted and a student shall not be certified for examination if his/her progress, conduct and attendance is not satisfactory.
- 2) Students, if found indulging in anti-national activities contrary to the provisions of the Acts & Laws enforced by Government will be liable to be expelled from the college without any notice by the Principal of the College.
- 3) Ragging of students in any form within or outside the College and hostel is strictly prohibited. Defaulters will be strictly dealt with as per Govt. instructions in this matter.
- 4) Smoking, drinking (alcohol) and use of drugs is strictly prohibited in the premises of the College and hostel.
- 5) Bicycles, scooters and vehicles should be parked only in areas provided for the purpose. The institute accepts no responsibility for their safe custody. Vehicles lodged elsewhere may be confiscated.
- 6) Any changes in the address of the student must be intimated by him in writing to the college office immediately.
- 7) Students must use aprons and uniforms of prescribed pattern while working in dissection hall, laboratories, class-room and in the college.
- 8) A student must carry Identity Card / Smart Card signed by the Principal and produce the same whenever asked by the College Authorities. **Without Identity card / Smart Card students will not be allowed to enter the college premises.**
- 9) A student is expected to read the notices put up on the notice board of the College. The College accepts no responsibility for loss of any advantage by student due to his failure to read the notice in time.
- 10) In case, a student requires to remain absent for some reasons, he/she will be required to take the prior permission of the Principal.
- 11) If any of the statement made in application form or any information supplied by the student in connection with his/her admission is later on, at any time found to

be false or incorrect, his/her admission will be cancelled, fees forfeited and he/she will be expelled from the college by the Principal and prosecuted by Govt., if deemed necessary.

- 12) A student shall not go to the press or any other publicity media without permission of the Principal.
- 13) Any damage to the college property, apparatus, furniture, equipments, library books, building etc. must be paid immediately by the students.
- 14) Students must attend social and national events organised by the College such as 26th January, 10th May and 15th August, and all other declared national celebrations.
- 15) A student will be bound by the rules and regulations framed by the College / University from time to time.
- 16) No student will be allowed to appear for the university examination unless he/she has paid all his/her dues and completed his/her practical journals and has kept satisfactory attendance.
- 17) Principal reserves the right to prescribe from time to time any rule/s of discipline and accordingly take necessary disciplinary action.

Bharati Vidyapeeth Deemed University framed general discipline code of conduct for the admitted students in the college premises entitled as “Student Discipline and Conduct Rule 2008” under the provision of Article 24(h) rules of Vidyapeeth. Students are required to go through in above “Student Discipline and Conduct Rule 2008”. The same is displayed on the notice board for the information of admitted students.



IMPORTANT NOTE

Attendance of International Students :

Office of the Commissioner of Police has made mandatory to the college to observe International students attendance in the college and send the monthly report of the individual international student to the police (FRO). In this context, International students are appealed to be regular and punctual in attending classes, practical work, tutorials, submission of the term-work in various subjects. If the progress, conduct and attendance of any international student is not satisfactory his/her terms shall not be granted

12 : Instructions to Newly admitted Students for Permanent Registration Number (PRN) Registration

1. Student need to visit the “www.bvuniversity.edu.in” website.
2. Click on **Student PRN No. generation** link under the Admission Notice Column.
3. Select **New Registration** link (1st time user only).
4. Select College / Faculty / Course / Specialization (if any) as per specified on College Fee receipt.
5. Now create USER by entering all the valid personal details. Use EMAIL ID as USER ID for further communication.
6. After successfully creation of USER, all the credentials will be send on mail (on registered mail ID).
7. Student now needs to login and with the valid credential to fill the form.
8. After login student needs to UPLOAD PHOTO, SIGNATURE and FEE RECEIPT in soft copy (Guidelines for uploading Images are given on the Website).
9. After uploading these documents, student will proceed on next page.
10. Student needs to enter personal details, local communication details, permanent communication details and educational details.
11. System will display the list of eligibility documents according to the course.
12. After completing these procedures student will able to see the application form, at this stage student can edit and update the information.
13. Student will submit the form and take print out of this form.
14. Student needs to submit this application form to the college office.
15. For existing students, the same procedure is applicable except they have to enter PRN number at the time of filling the form.
16. Kindly refer registration guide given on the website.

17. For any difficulties regarding PRN system, kindly contact **020-24407163** or mail on **bvuisprn@gmail.com**

Anti-Ragging Undertaking

As per the norms laid down by the Ministry of Human Resource Development, Government of India and University Grants Commission, New Delhi all the students seeking admission first time in this College, have to submit Anti-Ragging undertaking online through the following websites :

1) **www.antiragging.in** 2) **www.amanmovement.org**

A student has to take print out of the same undertaking and attach the hard copy to admission form. Submission of Anti-Ragging Undertaking is mandatory to all newly admitted students.





Institutions of Bharati Vidyapeeth Bharati Vidyapeeth (Deemed to be University) Pune, India

Accredited with 'A+' Grade (3rd cycle) by NAAC,
'A' Grade University Status by MHRD, Govt. of India
Accredited (2004) & Reaccredited (2011) with 'A' Grade by NAAC



CONSTITUENT INSTITUTIONS

• Medical College, Pune (with School of Optometry, School of Audiology and Speech Language Pathology and Centre for Health Management and Research, Pune) • Medical College & Hospital, Sangli • Dental College & Hospital, Pune • Dental College & Hospital, Navi Mumbai • Dental College & Hospital, Sangli • College of Ayurved, Pune • Homoeopathic Medical College, Pune • College of Nursing, Pune • College of Nursing, Sangli • College of Nursing, Navi Mumbai • College of Engineering, Pune • College of Architecture, Pune • Poona College of Pharmacy, Pune • Institute of Management & Entrepreneurship Development, Pune • Institute of Management and Research, New Delhi • Abhijit Kadam Institute of Management & Social Sciences, Solapur • Institute of Management, Kolhapur • Institute of Management and Rural Dev. Administration, Sangli • Yashwantrao Mohite Institute of Management, Karad • Institute of Hotel Management & Catering Technology, Pune • Yashwantrao Mohite College of Arts, Science and Commerce, Pune (with School of Performing Arts) • New Law College, Pune • College of Physical Education, Pune • Social Sciences Centre, Pune (Social Work) • Institute of Environment Education and Research, Pune • Interactive Research School for Health Affairs, Pune • Rajiv Gandhi Institute of Information Technology and Bio-Technology, Pune • Yashwantrao Chavan Institute of Social Science Studies & Research, Pune • Research and Development Centre in Pharmaceutical Sciences and Applied Chemistry, Pune.

Bharati Vidyapeeth – Higher Education (Institutions Affiliated to other Universities)

• College of Engineering for Women, Pune • College of Fine Arts, Pune • Kala Mahavidyalaya, Pune • Jawaharlal Nehru Institute of Technology (Polytechnic), Pune • Institute of Pharmacy (Polytechnic), Pune • School of Photography, Pune • College of Engineering, Lavale, Pune • Institute of Management Studies & Research, Navi Mumbai • Institute of Management and Master of Computer Application and Information Technology, Navi Mumbai • College of Engineering, Navi Mumbai • College of Architecture and School of Designing and Decoration, Navi Mumbai • College of Pharmacy, Navi Mumbai • Institute of Pharmacy (Poly), Navi Mumbai • Institute of Technology (Poly), Navi Mumbai • Institute of Hotel and Tourism Management, Navi Mumbai • College of Engineering, New Delhi • Institute of Computer Application and Management, New Delhi • College of Pharmacy, Kolhapur • New Law College, Kolhapur • College of Engineering, Kolhapur • Dr. Patangrao Kadam Arts, Science & Commerce College (Jr., Sr., and P.G.), Sangli • Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya (Jr. & Sr.) Kadegaon (Sangli) • New Law College, Sangli • Institute of Technology (Poly), Palus (Sangli) • Loknete Mohanrao Kadam College of Agriculture, Kadegaon (Sangli) • College of Horticulture, Kadegaon (Sangli) • Yashwantrao Chavan Law College, Karad

School of Bharati Vidyapeeth

• Bal Viikas Mandir (Marathi Medium) – Erandwane, Pune – 38, Navi Mumbai, Solapur • Primary, Secondary Schools and Junior Colleges (Marathi Medium) at different places such as in Pune, Solapur, Raigad, Satara, Sangli, Kolhapur, Palghar and other places • Ravindranath Tagore School of Excellence, Pre-Primary and Primary Schools, Balewadi, Pune • Pre Primary, Primary, High Schools and Senior Secondary Schools (English Medium), Erandwane, Pune, Dhankawadi, Pune, Lohegaon, Pune, Navi Mumbai, Jawhar, Dist. Palghar, Vikramgad, Dist. Satara, Kolhapur, Vita, Dist. Sangli, Kadegaon, Dist. Sangli • Residential CBSC School (English Medium) Pachgani, Dist. Satara • Primary and Secondary Ashram Schools, Jawhar, Dist. Palghar • Industrial Training Institute for Girls, Kadegaon (Sangli).

Associate Institutions

• Bharati Vidyapeeth English-Maths Exam Department • Bharati Vidyapeeth's Bharati Printing Press • Bharati Sahakari Bank Ltd. • Bharati Madhyawarti Sahakari Grahak Bhandar Ltd. • Sonhira Sahakari Sakhar Karkhana Ltd., Wangi, Kadegaon, Dist. Sangli • Sagareshwar Sahakari Soot Girmi Ltd., Kadegaon, Dist. Sangli • Krishna Verala Sahakari Soot Girmi Ltd., Kundal-Palus, • Sou. Vijaymala Patangrao Kadam Mahila Auodyogik Sahakari Santha, Kadegaon, Dist. Sangli • Mahatma Gandhi Hospital & Research Centre | Bharati Vidyapeeth Medical Foundation • Bharati Hospital & Research Centre • Eye Bank • Mobile Health Care Unit & Ambulance • Foundation for Rural Development • Bharati Vidyapeeth Krida Pratishthan • Bharati Vidyapeeth Kala Academy • Sonhira Milk Producers and Allied Agro Co-op. Soc. Ltd., Kadegaon • Sonhira Co-op. Poultry Society Ltd., Kadegaon, Dist. Sangli

*Where the mind is without fear and
The head is held high;
Where knowledge is free;
Where the world has not been broken
Up into fragments by narrow domestic walls;
Where words come out from the depth of truth...
Where the clear stream of reason has
Not lost its way into the dreary desert
Sand of dead habit...
Into that heaven of freedom, my
Father, let my country awake.*

- Rabindranath Tagore



Bharati Vidyapeeth (Deemed to be University), Pune
YASHWANTRAO MOHITE COLLEGE, PUNE

SCIENCE RESEARCH CENTRE