!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sancta's

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

NAAC Accredited at 'B' Grade with CGPA 2.46 (1st Cycle)

Tal.:Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)

Criteria No.1 : Curricular Aspects

Key Indicator : 1.2 Academic Flexibility

1.2.1 Number of programmes in which choice Based Credit System (CBCS) /elective course system has been implemented

!! न हि ज्ञानेन सदृशं ! पवित्रमिह विद्यते !!

Shriram Shikshan Sancta's

Shriram Mahila Vidnyan Mahavidyalaya, Paniv

NAAC Accredited at 'B' Grade with CGPA 2.46 (1st Cycle)

Tal.:Malshiras, Dist.: Solapur, 413113

(Affiliated to S. N. D. T. Women's University, Mumbai)
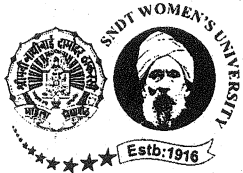

Criteria -1 Curricular Aspects

Key Indicator : 1.2 Academic Flexibility

Metric No.1.2.1	*Number of programmes in which choice Based Credit System (CBCS) /elective course system has been implemented*

Index

S.N.D.T. Arts and Commerce College for Women
Estd. : 5 July 1916

Constituent College of S.N.D.T. Women's University Mumbai

Maharshi Karve Vidya Vihar, Karve Road, Pune - 411 038.
Phone : 020-25431153 • E-mail : sndtartspune@gmail.com • Website : www.sndtarts.ac.in

Ref No:- IQAC/UGPro/2018-19/495

11/02/2019

To,
The Principal/Director/HoD/Co-ordinator

Subject : - Workshop on CBCS to be implemented for all UG programmes

Dear Sir/Madam,

On **02/03/2019 the College** is organizing a Workshop **in association with IQAC SNDT Women's University, Mumbai-20** on **"Implementing CBCS as per UGC guidelines for Under Graduate Programs"**. In this workshop the consensus will be **sought after** on the structure, teaching load and on declaration of result. The course title and evaluation pattern will be decided by the respective Board of Studies.

Dr. V. N. Magare, Pro-Vice Chancellor, will inaugurate the workshop and will act as Mentor. Dr. Nalini Patil, Principal, SNDT College of Education, Pune and Member Management Council, SNDT Women's University is the Chief Guest for Inauguration Function. Dr. Archana Bhatnagar OSD, Additional Charge will be the Chief Guest for Valedictory Function. During the day long deliberations the following authorities of SNDT Women's University are invited for guidance.
1) Dean and Associate Dean of Faculty of Science and Technology, Dean and Associate Dean of Faculty of Commerce and Management, Dean and Associate Dean of Faculty of Humanities and Dean and Associate Dean of Faculty of Interdisciplinary Studies.
2) Chairman and the Members of the Board of Studies of various faculties
3) Dr. Subhash Waghmare, Director BOEE
   We have worked out a draft CBCS structure for Commerce & Arts faculties for consideration and discussion purposes as per UGC guidelines. **You may, if required, contact faculty members (the names and contact details are available in the workshop brochure attached here with) for clarifications and suggestions.** I request the Principals to kindly participate in the workshop *along with the faculty members teaching various Under Graduate Courses*. I request you to kindly complete the registration formalities on or before **25/02/2019.** I am sure that the deliberations in the workshop will definitely achieve its objectives and will smoothen its implementation.
   You are further requested to kindly visit the following link **https://www.ugc.ac.in/ugc_notices.aspx?id=1077** for the Syllabi of Under Graduate courses under Choice Based Credit System (CBCS) / Instructional Template for Facilitating Implementation of Choice Based Credit System (CBCS)
   Thanking you,

Yours faithfully,

11.2.19

(Dr. Anand G. Jumle)
Principal &
Dean
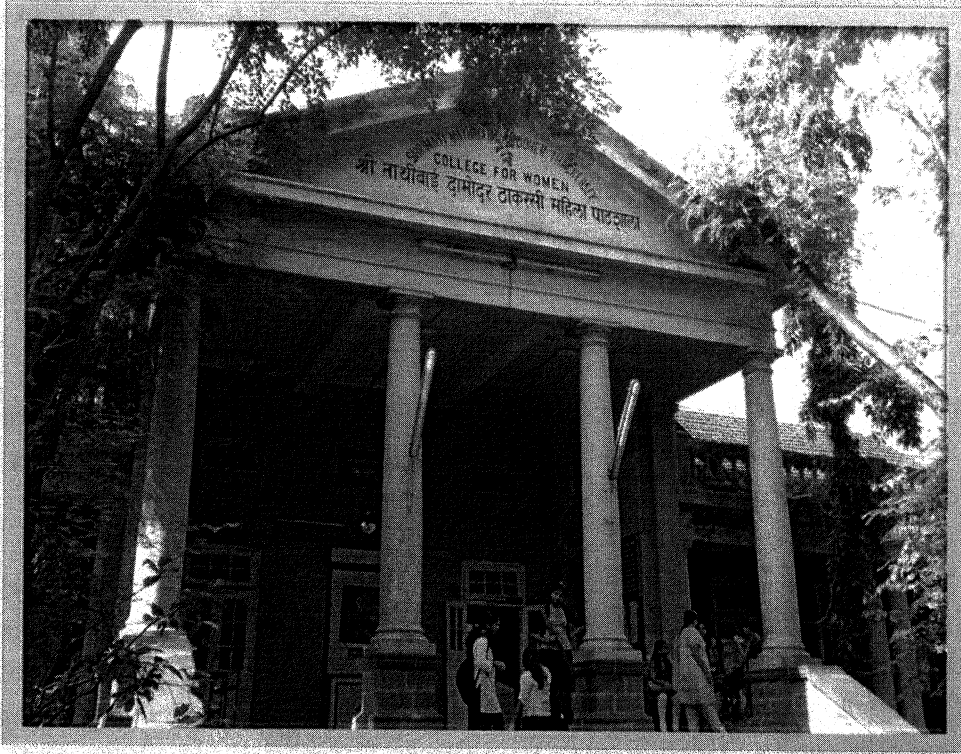Faculty of Commerce & Management

Encl: - as above

Note: Kindly bring the enclosures for workshop "Saving Trees is our Duty"

Workshop on
Implementation of Choice Based Credit System for Undergraduate Programmes

02/03/ 2019

Organized by:
SNDT Arts and Commerce College for Women,
Maharshi Karve Vidya Vihar, Karve Road, Pune- 411038
In association with
IQAC, SNDT Women's University, Mumbai-20

Contact Details:
Mobile Nos: 07588320308, 09422525299, 09689928560
Phone Nos: 020-25431153, 020-5445751
Email: collegepune@sndt.ac.in
Web site: www.sndtartspune.ac.in

About the College and the SNDT Women's University:

The SNDT Arts and Commerce College for Women, Pune is a constituent College of the SNDT Women's University, Mumbai. The vision of the great social reformer, Bharatratna Maharshi Dhondo Keshav Karve, was translated into reality by the foundation of a women's University named as Indian Women's University, with its first college at Pune in 1916. With a generous support from Sir Vitthaldas Thackersey, an industrialist with social orientation, Indian Women's University was named as Shreemati Nathibai Damodar Thackersey (SNDT) Women's University in the year 1920. The head office of the University was shifted to Mumbai in 1936.

In 1951, the University acquired statutory recognition from the Government of Maharashtra along with the rare privilege of jurisdiction across the country. Today, the University has four campuses at Pune, Churchgate (Mumbai), Juhu (Mumbai), and Shriwardhan (Konkan). It has thirteen constituent colleges and one hundred and seventy four affiliated colleges in the states of Maharashtra, Gujarat, Goa, Madhya Pradesh, and Uttar Pradesh.

The University founded with one programme offered to five students has grown to two hundred programmes offered through twelve faculties to more than seventy thousand students.

The mission statement of the University and the College is "Sanskrita Stree Parashakti" which means "An Enlightened Woman is a Source of Infinite Strength". 'Empowerment of Women through Higher Education' is the main objective of the College.

About the Workshop:

The workshop will focus on the implementation of the Choice Based Credit System to be implemented at Under Graduate Programmes in the Faculty of Science and Technology, Faculty of Commerce and Management, Faculty of Humanities and Faculty of Interdisciplinary Studies in SNDT Women's University, Mumbai. The workshop will provide a forum to experts and academicians to discuss and also propose strategies of implementing CBCS from the academic year 2019-20.

The Deans, Associate Deans of all the faculties, Members of all the Board of Studies, Principles/Directors, Head of Department, and teaching staff members teaching the undergraduate programmes are expected to participate in this workshop.

Objectives of the workshop:
1. To understand the basic structure of CBCS suggested by the UGC.
2. To deliberate on the issues relating to implementation of the CBCS in the SNDT Women's University for Undergraduate Courses.
3. To discuss the issues related to evaluation and assessment under CBCS to be implemented
4. To discuss the initiation of wall-less education at Under Graduate level in SNDT Women's University.

Registration Fees: The fee is Rs/- 350 per participants, to be paid on or before 25/02/2019 by NEFT / RTGS

Name of Account Holder	:The Principal SNDT Arts & Commerce College Pune
Bank Name	: Bank of India
Account Number	: 050320100200006
IFSC Code	: BKID0000503
MICR	: 411013011
Address	: Karve Road, Pune – 38

Note – For NEFT/RTGS please write in remark "CBCS Workshop"

Kindly mail the registration form and receipt of digital payment to collegepune@sndt.ac.in

Accommodation: The accommodation is available for women participants in the hostel on first come first basis and the amount to be paid directly in the hostel office. You can send the details on the email id of the following faculty members.

Contact Details:

Smt. Meherarti V. Bade
9011022632
Email - meheraarti@gmail.com

Shri. Ashok Kashinath Kokate
8668395568
Email - ashokkokate123@gmail.com

Chief Patron:
Prof. Sashikala Wanjari
Vice Chancellor, SNDT Women's University, Mumbai-20

Convener:
Dr. Anand G. Jumle, Principal

Secretary:
Dr. Madhavi Kulkarni, Vice Principal

Organizers:

Dr. Madhura Joshi, IQAC Co-ordinator, Head, Department of Economics
Mrs. Vasanti Joshi, Member – IQAC, Dr. Priya Jamkar, Member – IQAC,
Dr. Rajetri Kulkarni, Member – IQAC & Mr. Ravi Hande, Member – IQAC

MINIMUM COURSE CURRICULUM FOR UNDERGRADUATE COURSES UNDER CHOICE BASED CREDIT SYSTEM

1

MINIMUM COURSE CURRICULUM FOR UNDERGRADUATE COURSES UNDER CHOICE BASED CREDIT SYSTEM

Background/Preamble:

Ministry of Human Resource Development (HRD), Govt. of India, has already initiated the process for developing New Education Policy (NEP) in our country to bring out reforms in Indian education system. University Grants Commission (UGC) participates more actively in developing National Education Policy, its execution and promotion of higher education in our country. The UGC has already initiated several steps to bring equity, efficiency and academic excellence in National Higher Education System. The important ones include innovation and improvement in course- curricula, introduction of paradigm shift in learning and teaching pedagogy, examination and education system.

The education plays enormously significant role in building of a nation. There are quite a large number of educational institutions, engaged in imparting education in our country. Majority of them have entered recently into semester system to match with international educational pattern. However, our present education system produces young minds lacking knowledge, confidence, values and skills. It could be because of complete lack of relationship between education, employment and skill development in conventional education system. The present alarming situation necessitates transformation and/or redesigning of education system, not only by introducing innovations but developing "learner-centric approach in the entire education delivery mechanism and globally followed evaluation system as well.

Majority of Indian higher education institutions have been following marks or percentage based evaluation system, which obstructs the flexibility for the students to study the subjects/courses of their choice and their mobility to different institutions. There is need to allow the flexibility in education system, so that students depending upon their interests and aims can choose inter-disciplinary, intra-disciplinary and skill-based courses. This can only be possible when choice based credit system (CBCS), an internationally acknowledged system, is adopted. The choice based credit system not only offers opportunities and avenues to learn core subjects but also exploring additional avenues of learning beyond the core subjects for holistic development of an individual. The CBCS will undoubtedly facilitate us bench mark our courses with best international academic practices. The CBCS has more advantages than disadvantages.

Advantages of the choice based credit system:

- Shift in focus from the teacher-centric to student-centric education.
- Student may undertake as many credits as they can cope with (without repeating all courses in a given semester if they fail in one/more courses).
- CBCS allows students to choose inter-disciplinary, intra-disciplinary courses, skill oriented papers (even from other disciplines according to their learning needs, interests and aptitude) and more flexibility for students).

- CBCS makes education broad-based and at par with global standards. One can take credits by combining unique combinations. For example, Physics with Economics, Microbiology with Chemistry or Environment Science etc.
- CBCS offers flexibility for students to study at different times and at different institutions to complete one course (ease mobility of students). Credits earned at one institution can be transferred.

Disadvantages:

- Difficult to estimate the exact marks
- Workload of teachers may fluctuate
- Demand good infrastructure for dissemination of education

CHOICE BASED CREDIT SYSTEM (CBCS):

The CBCS provides an opportunity for the students to choose courses from the prescribed courses comprising core, elective/minor or skill based courses. The courses can be evaluated following the grading system, which is considered to be better than the conventional marks system. Therefore, it is necessary to introduce uniform grading system in the entire higher education in India. This will benefit the students to move across institutions within India to begin with and across countries. The uniform grading system will also enable potential employers in assessing the performance of the candidates. In order to bring uniformity in evaluation system and computation of the Cumulative Grade Point Average (CGPA) based on student's performance in examinations, the UGC has formulated the guidelines to be followed.

Tentative list of Undergraduate Disciplines/Courses to be covered under CBCS developing common minimum structure and syllabi:

BACHELOR COURSES UNDER CBCS IN INDIA

S.NO.	UNDERGRADUATE COURSES	
1	**Arts and Humanities**	1. Hindi 2. Sanskrit 3. Modern Indian Language- Punjabi 4. English 5. Sociology 6. Public Administration 7. Defense and Strategic studies 8. History 9. Geography 10. Economics 11. History and Tourism 12. Philosophy 13. Political Science 14. Music 15. Journalism 16. Psychology 17. Mathematics 18. Home Science 19. Education
2	**Commerce and Management**	20. Business Economics 21. Commerce 22. Banking and Insurance 23. Accounting and Finance 24. Financial Markets 25. Company and Compensation law 26. Business Administration 27. Labor Management 28. Tourism and Travel management
3	**Science**	29. B.Sc. Medical/Life Sciences 30. Chemistry 31. Physics 32. Botany 33. Zoology 34. Biotechnology

4

		35. Microbiology
		36. Biochemistry
		37. Computer Science
		38. Environmental Science
		39. Food Technology
		40. Electronic Science
		41. Information Technology
		42. Forensic Science
		43. Biomedical Science
		44. Physical Science
		45. Operational Research
		46. Statistics
		47. Anthropology
5	Others	48. LLB
		49. BCA
		50. B. Lib
		51. B.Ed
		52. B.El.Ed
		53. Multimedia and Communication
		54. Fine Arts
		55. Performing Arts
		56. Physical Education and Health
		57. Foreign Languages

5

Details of courses under B.Sc. (Honors)

Course	*Credits	
	Theory+ Practical	Theory + Tutorial

I. Core Course
(14 Papers)   14X4= 56   14X5=70
Core Course Practical / Tutorial*
(14 Papers)   14X2=28   14X1=14

II. Elective Course
(8 Papers)
A.1. Discipline Specific Elective   4X4=16   4X5=20
(4 Papers)

A.2. Discipline Specific Elective
      Practical/ Tutorial*   4 X 2=8   4X1=4
(4 Papers)

B.1. Generic Elective/
      Interdisciplinary   4X4=16   4X5=20
(4 Papers)
B.2. Generic Elective
      Practical/ Tutorial*   4 X 2=8   4X1=4
(4 Papers)

- **Optional Dissertation or project work in place of one Discipline Specific Elective paper (6 credits) in 6th Semester**

III. Ability Enhancement Courses
1. **Ability Enhancement Compulsory Courses (AECC)**
(2 Papers of 2 credit each)   2 X 2=4   2 X 2=4
      Environmental Science
      English/MIL Communication
2. **Skill Enhancement Courses (SEC)**
      (Minimum 2)   2 X 2=4   2 X 2=4
(2 Papers of 2 credit each)

8

18

Total credit 140 140

Institute should evolve a system/policy about ECA/ General Interest/Hobby/Sports/NCC/NSS/related courses on its own.

* wherever there is a practical there will be no tutorial and vice-versa

PROPOSED SCHEME FOR CHOICE BASED CREDIT SYSTEM IN B. Sc. Honours

	CORE COURSE (14)	Ability Enhancement Compulsory Course (AECC) (2)	Skill Enhancement Course (SEC) (2)	Elective: Discipline Specific DSE (4)	Elective: Generic (GE) (4)
I	C 1	(English Communication/MIL)/ Environmental Science			GE-1
	C 2				
II	C 3	Environmental Science/(English/MIL Communication)			GE-2
	C 4				
III	C 5		SEC -1		GE-3
	C 6				
	C 7				
IV	C 8		SEC -2		GE-4
	C 9				
	C 10				
V	C 11			DSE-1	
	C 12			DSE -2	
VI	C 13			DSE -3	
	C 14			DSE -4	

C
Details of Courses Under Undergraduate Programme (B.Sc.)

Course	*Credits	
	Theory+ Practical	Theory+Tutorials

I. Core Course (12 Papers) 12X4= 48 12X5=60
04 Courses from each of the
03 disciplines of choice

Core Course Practical / Tutorial* (12 Practical/ Tutorials*) 12X2=24 12X1=12
04 Courses from each of the
03 Disciplines of choice

II. Elective Course (6 Papers) 6x4=24 6X5=30

Two papers from each discipline of choice
including paper of interdisciplinary nature.

Elective Course Practical / Tutorials* (6 Practical / Tutorials*) 6 X 2=12 6X1=6
Two Papers from each discipline of choice
including paper of interdisciplinary nature

- **Optional Dissertation or project work in place of one Discipline elective paper (6 credits) in 6th Semester**

III. Ability Enhancement Courses

1. **Ability Enhancement Compulsory Courses (AECC)** 2 X 2=4 2X2=4
(2 Papers of 2 credits each)
   Environmental Science
   English/MIL Communication

2. **Skill Enhancement Courses (SEC)** 4 X 2=8 4 X 2=8

(4 Papers of 2 credits each)

Total credit= 120   Total credit= 120

Institute should evolve a system/policy about ECA/ General Interest/Hobby/Sports/NCC/NSS/related courses on its own.

*wherever there is practical there will be no tutorials and vice -versa

PROPOSED SCHEME FOR CHOICE BASED CREDIT SYSTEM IN B.Sc. Program

	CORE COURSE (12)	Ability Enhancement Compulsory Course (AECC) (2)	Skill Enhancement Course (SEC) (2)	Discipline Specific Elective DSE (6)
I	DSC- 1 A	(English/MIL Communication)/ Environmental Science		
	DSC- 2 A			
	DSC- 3 A			
II	DSC- 1 B	Environmental Science / (English/MIL Communication)		
	DSC- 2 B			
	DSC- 3 B			
III	DSC- 1 C		SEC-1	
	DSC- 2 C			
	DSC- 3 C			
IV	DSC- 1 D		SEC -2	
	DSC- 2 D			
	DSC- 3 D			
V			SEC -3	DSE-1 A
				DSE-2 A
				DSE-3 A

I			SEC - 4	DSE-1 B
				DSE-2 B
				DSE-3 B

D

Details of Courses Under Undergraduate Programme (B.A./ B.Com.)

Course	*Credits	
	Paper+ Practical	Paper + Tutorial
I. Core Course	12X4= 48	12X5=60
(12 Papers)		
Two papers – English		
Two papers – MIL		
Four papers – Discipline 1.		
Four papers – Discipline 2.		
Core Course Practical / Tutorial*	12X2=24	12X1=12
(12 Practicals)		
II. Elective Course	6x4=24	6X5=30
(6 Papers)		
Two papers- Discipline 1 specific		
Two papers- Discipline 2 specific		
Two papers- Inter disciplinary		
Two papers from each discipline of choice		
and two papers of interdisciplinary nature.		
Elective Course Practical / Tutorials*	6 X 2=12	6X1=6
(6 Practical/ Tutorials*)		
Two papers- Discipline 1 specific		
Two papers- Discipline 2 specific		
Two papers- Generic (Inter disciplinary)		
Two papers from each discipline of choice		
including papers of interdisciplinary nature.		

- **Optional Dissertation or project work in place of one elective paper (6 credits) in 6th Semester**

III. Ability Enhancement Courses		
1. Ability Enhancement Compulsory Courses (AECC)	2 X 2=4	2 X 2=4
(2 Papers of 2 credits each)		
Environmental Science		
English Communication/MIL		
2. Skill Enhancement Courses (SEC)	4 X 2=8	4 X 2=8

न-ム

(4 Papers of 2 credits each)

<div align="center">

Total credit= 120   Total = 120
</div>

Institute should evolve a system/policy about ECA/ General Interest/Hobby/Sports/NCC/NSS/related courses on its own.

*wherever there is a practical there will be no tutorial and vice-versa.

<div align="center">

PROPOSED SCHEME FOR CHOICE BASED CREDIT SYSTEM IN B.A./B.Com Program
</div>

	CORE COURSE (12)	Ability Enhancement Compulsory Course (AECC) (2)	Skill Enhancement Course (SEC) (2)	Discipline Specific Elective DSE (4)	Generic Elective GE (2)
I	English/MIL-1	(English/MIL Communication) / Environmental Science			
	DSC- 1 A				
	DSC- 2 A				
II	MIL/English-1	Environmental Science/ (English/MIL Communication)			
	DSC- 1 B				
	DSC- 2 B				
III	English/MIL-2		SEC -1		
	DSC- 1 C				
	DSC- 2 C				
IV	MIL/English-2		SEC -2		
	DSC- 1 D				
	DSC- 2 D				
V			SEC -3	DSE-1 A	GE-1
				DSE-2 A	

List of courses offered

List of courses offered (UG)			
Program Name	Course code	Course Name	Year of introduction
F. Y. B. Sc. (Sem. I)	100101	Environmental science (Foundation course)	2014
	102101	Inorganic chemistry	
	102102	Organic chemistry	
	102201	Lab Course	
	104101	Algae, Fungi, Lichens, Bacteria, Viruses.	
	104102	Morphology, Taxonomy and Anatomy	
	104201	Lab Course	
	105101	Animal Diversity and Physiology	
	105102	Animal Diversity, Ecology and Biodiversity	
	105201	Lab Course	
F. Y. B. Sc. (Sem. II)	200101	Women's issue (Foundation course)	2014
	202101	Physical Chemistry	
	202102	Inorganic Chemistry	
	202201	Lab Course	
	204101	Bryophyta, Pteridophyta, Gymnosperms and Ecology.	
	204102	Physiology, Biochemistry, Biotechnology and cytogenetics.	
	204201	Lab Course	
	205101	Genetics, Biochemistry & Evolution	
	205102	Basic embryology & Biotechnologies	
	205201	Lab Course	
S. Y. B. Sc. (Sem. I)	300101	Women's issue (Foundation course)	2014
	302101	Organic Chemistry	
	302102	Physical Chemistry	
	302201	Lab Course	
	305101	Parasitology	

16

	305102	Cell biology & Instrumentation	
	305201	Lab Course	
S. Y. B. Sc. **(Sem. II)**	400101	English I (Foundation course)	2014
	402101	Inorganic Chemistry	
	402102	Physical Chemistry	
	402201	Lab Course	
	405101	Applied Zoology	
	405102	Current trends in Zoology	
	405201	Lab Course	
T. Y. B. Sc. **(Sem. I)**	500101	English II (Foundation course)	2014
	502101	Physical Chemistry	
	502102	Organic Chemistry	
	502103	Inorganic Chemistry	
	502104	Analytical Chemistry	
	502201	Lab Course	
	502202	Lab Course	
T. Y. B. Sc. **(Sem. II)**	600101	English I (Foundation course)	2014
	602101	Physical Chemistry	
	602102	Organic Chemistry	
	602103	Inorganic Chemistry	
	602104	Analytical Chemistry	
	602201	Lab Course	
	602202	Lab Course	

Principal
Shriram Mahila Vidynan Mahavidyalaya
Paniv. Tal. Malshiras, Dist. Solapur

List of courses offered (As per NEP-2020)

Program Name	Course code	Course Name	Year of introduction
F. Y. M. Sc. (Sem. I)	115211	Analytical Chemistry Paper I	2023
	115212	Food & Biochemical Analysis	
	115223	Practical Analytical Chemistry	
	115224	Practical Food and Biochemical Analysis	
	125211	Drug Laws and Packaging	
	135211	Research Methodology	
F. Y. M. Sc. (Sem. II)	215211	Analytical Chemistry Paper II	2023
	215212	Cosmetics Formulations & Quality Control	
	215213	Environmental Science	
	215224	Practical Analytical Chemistry Paper II	
	225211	Pharmaceutical Analysis	
	245221	Practical Pharmaceutical Analysis	
S. Y. M. Sc. (Sem. III)	315211	Analytical chemistry - III	2023
	315212	Organic Analysis	
	315213	Practical Analytical Chemistry	
	315224	Practical Organic Analysis	
	325211	Microbiological Methods of Analysis	
	355221	Research Project Part – I	
S. Y. M. Sc. (Sem. IV)	415211	Analytical Chemistry - IV	2023
	415222	Practical Advanced Anal. Techniques	
	415223	In-plant training	
	425211	Advance Environmental Science	

Principal
Shriram Mahila Vidynan Mahavidyalaya
Paniv, Tal. Malshiras, Dist. Solapur