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Dr.V.S.KRISHNA GOVT. DEGREE COLLEGE (Autonomous)

(Reaccredited with 'A' Grade, District Resource Centre & AU Research Centre) Maddilapalem, VISAKHAPATNAM 530 013, Andhra Pradesh <u>www.drvskrishnagdc.edu.in</u>



## 5<sup>th</sup> ACADEMIC COUNCIL

AGENDA FOR THE 5<sup>th</sup> ACADEMIC COUNCIL MEETING Date :25-10-2018 Time:03:30 PM Venue: IQAC Conference Hall

The Fifth Academic council meeting of Dr.V.S.Krishna Government Degree College (Autonomous) is held on 25-10-2018 at 03.30 PM in IQAC-Conference Hall with the following members.

1. University Nominees (from Andhra University, Visakhapatnam):

i. Prof. B. V. Sandeep, Dept. of Zoology

ii. Prof. P.Veni, Dept. of Commerce & Management Studies

iii. Prof.D.S.V.V.D.Prasad, Dept. of Physics

#### 2. Experts/academicians from outside the College :

i. Dr.M.Ram Babu, Sr.Manager, Quality Control, HPCL, Visakhapatnam – Expert from the field of Industry

ii.. Dr.B.Madhusudhana Rao, Principal Scientist, CIFT, Visakhapatnam – Expert from the field of Science

iii. Dr.P.Venkata Ramana Associate Professor, Andhra Medical College – Expert from the field of Medicine

**iv. Prof.R.Murali Krishna** Rtd Director, School of Chemistry, Andhra University – Expert from the field of Education



3. Sr.Lecturers from the College as academic council members :

i. Sri R.Rama Rao, Lecturer in Commerce

ii. Sri K.A.R.S.S.Prasad, Lecturer in Chemistry

iii. Dr.Ch.Vishnu Murthy, Lecturer in Commerce

iv. Dr.G.Vijaya Pratap, Lecturer in Zoology

4. Dr.Ch.Lalitha, Lecturer in Microbiology & Coordinator IQAC.

5. Dr.D.Sravana Kumar, Reader in Physics 8 Member Secretary, Academic Council.

6. Dr.V.Chandra Sekhar, Principal, Dr.V.S.Krishna Govt. Degree College, Visakhapatnam 82 Chairman, Academic Council.



Sl. No.	Subject	Name of the Lecturer in Charge
1.	English & Spl. English	Dr.V.Sudheer
2.	Telugu	Dr. D. Praveena
3.	Hindi	Smt. S. Suryavathi
4.	Sanskrit	Dr.P.Umamaheswara Rao
5.	History	Dr.K.Somasekhar
6.	Economics	Dr. D. Narayana Rao
7.	Political Science	Dr. V. Ramesh Babu
8.	Commerce	Dr. K.Ravi Kumar
9.	Mathematics I/C	Dr.V. Ramesh Babu
10.	Physics	Dr.D.Sravan Kumar
11.	Chemistry	Dr. K.Bharat Kumar Naik
12.	Industrial Chemistry	Dr. K.Bharat Kumar Naik
13.	Computer Science	Dr. Ch.V.M.K.Hari
14.	Botany	Dr.P.Sreevani
15.	Zoology	Dr. B.Krishna
16.	Microbiology	Dr. Ch.Lalitha
17.	Biochemistry	Dr. Ch.Lalitha
18.	Biotechnology	Ms.T.Nikhita
19.	HVPE	Dr. D.Narayana Rao
20.	Environmental Studies	Dr.T.M.A.Niveditha
21.	CSS-I & CSS –II	Dr. V. Sudheer
22	ICT-I & ICT –II	Dr. Ch.V.M.K.Hari
23	Entrepreneurship	Dr. K. Ravi Kumar
24	Analytical Skills	Dr.V.Ramesh Babu
25	Add on Courses	Dr.P.Sreevani
26	Controller of Examinations	Sri P.S.Jagga Rao

# 7. Heads of the Departments and Chairpersons Boards of Studies:

#### Item-1: Welcome Address

Dr.V.Chandra Sekhar, Principal, Dr V.S Krishna Government Degree College (A), and Chairman of Academic Council takes pleasure to welcome the honorable University nominees and other members to this Fifth Academic Council meeting of Dr.V.S.Krishna Govt. Degree College(A), Visakhapatnam. It is a matter of recognition by the UGC that ours is the first Govt. College to have been given the status of Autonomy in the entire north costal Andhra Pradesh. Our college got 163 Rank in NIRF Ratings of 2017-18. I will briefly submit the History of this college and the developments taken place after the conferment of fresh Autonomous status to this college since June-2011.

Introduction of all the Heads of the Department to the Item-2: University nominees.

of the New for the approval Moving resolutions Item-3: Syllabus(Cluster system) along with allocation of credits for B.A., B.Sc., & B.Com., Courses under Choice Based credit System from 2019-20 academic year onwards of I to VI Semesters of I, II and III Year Degree Courses and Vth & VI th semesters of 2017-18 & 2018-19 admitted batch .

> The Principal places before the Academic Council, the Syllabi of all the subjects of B.A, B.Com and B.Sc. as recommended by the respective Boards of Studies of different subjects held in the College on different dates in the month of October 2018. He also places before the Academic Council the Minutes of BOS Meetings of all the subjects with revisions made by the Subject experts for their perusal and requests them to approval after incorporating their suggestions and modifications, if any.

> > > 3.1: Dr. V.Sudheer, Chairman, Board of Studies of English will move the resolution for consideration and approval of the syllabus for English of I and II Semesters (I Year) and III and IV Semesters (II Year) for B.A, B.Com, B.Sc. Degree Courses as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.



- > 3.2: Dr. V.Sudheer, Chairman, Board of Studies of Spl. English, will move the resolution for consideration and approval of the syllabus for Special English of I and II Semesters (I Year), III and IV Semesters (II Year) and V and VI Semesters (III Year ) for B.A Special English Degree Course as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.
- > 3.3: Dr. D.Praveena, Chairman, Board of Studies of Telugu, will move the resolution for consideration and approval of the syllabus for Telugu of I and II Semesters (I Year) and III and IV Semesters (II Year) for B.Com, and B.Sc Degree Courses as B.A. recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.
- > 3.4: Smt. S. Suryavathi, Chairman, Board of Studies of Hindi, will move the resolution for consideration and approval of the syllabus for Hindi of I and II Semesters (I Year) and III and IV Semesters (II Year) for B.A, B.Com, and B.Sc Degree Courses as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.
- > 3.5: Dr.P.UmamaheswaraRao, Chairman, Board of Studies of Sanskrit, will move the resolution for consideration and approval of the syllabus for Sanskrit of I and II Semesters (I Year) and III and IV Semesters (II Year) for B.A, B.Com, and B.Sc Degree Courses as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.
- > 3.6: Dr.K.Soma Sekhar, Chairman, Board of Studies of History, will move the resolution for consideration and approval of the syllabus for History



of I and II Semesters, (I Year), III and IV Semesters (II Year) and V and VI Semesters (III Year) for B.A Degree Courses as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.

- > 3.7: Dr. D. Narayana Rao, Chairman, Board of Studies of Economics will move the resolution for consideration and approval of the syllabus for Economics of I and II Semesters, (I Year), III and IV Semesters (II Year) and V and VI Semesters (III Year) for B.A Degree Courses as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20.
- > 3.8: Dr.V. Ramesh Babu, Chairman, Board of Studies of Political Science, will move the resolution for consideration and approval of the syllabus for Political Science of I and II Semesters, (I Year), III and IV Semesters (II Year) and V and VI Semesters (III Year) for B.A Degree Courses as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.
- > 3.9: Dr.K.Ravi Kumar, Chairman, Board of Studies of Commerce, will move the resolution for consideration and approval of the syllabus for Commerce of I and II Semesters, (I Year), III and IV Semesters (II Year) and V and VI Semesters (III Year) for B.Com Degree Course as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.
- > 3.10: Dr. V. Ramesh Babu, Chairman, Board of Studies of Mathematics, will move the resolution for consideration and approval of the syllabus for Mathematics of I and II Semesters, (I Year), III and IV Semesters (II Year) and V and VI Semesters (III Year) for B.Sc. Degree Courses as recommended by the



Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.

- > 3.11: Dr.D.Sravan Kumar, Chairperson, Board of Studies of Physics, will move the resolution for consideration and approval of the syllabus for Physics of I and II Semesters, (I Year), III and IV Semesters (II Year) and V and VI Semesters (III Year) for B.Sc. Degree Courses as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.
- > 3.12: Dr. K.Bharath Kumar Naik, Chairman, Board of Studies of Chemistry, will move the resolution for consideration and approval of the syllabus for Chemistry of I and II Semesters, (I Year), III and IV Semesters (II Year) and V and VI Semesters (III Year) for B.Sc. Degree Courses as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.
- > 3.13: Dr.P.Sreevani, Chairperson, Board of Studies of Botany, will move the resolution for consideration and approval of the syllabus for Botany of I and II Semesters, (I Year), III and IV Semesters (II Year) and V and VI Semesters (III Year) for B.Sc. Degree Courses as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.
- > 3.14: Dr. B. Krishna, Chairperson, Board of Studies of Zoology, will move the resolution for consideration and approval of the syllabus for Zoology of I and II Semesters, (I Year), III and IV Semesters (II Year) and V and VI Semesters (III Year) for B.Sc. Degree Courses as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.



#### Item-4: Moving resolutions for the approval of Syllabi for General subjects and foundation courses.

The Principal places before the Academic Council, the Syllabi of the following Common Subjects of B.A, B.Com and B.Sc. as recommended by the respective Boards of Studies held in the College on different dates in the month of April 2017. He also places before the Academic Council the Minutes of BOS Meetings of all the subjects with revisions made by the Subject experts for their perusal and requested them to ratify after incorporating their suggestions and modifications, if any.

- > 4.1: Dr. D. Narayana Rao, Chairperson, Board of Studies in Human Values and Professional Ethics, Common Paper for the I Year Degree Students, will move the resolution for consideration and approval of the syllabus for HVPE in the I & II Semesters (I Year) Degree Courses for BA, B.Com & B.Sc. as recommended by the Board of Studies meeting held 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.
- 4.2: Dr. T.M.A.Niveditha, Chairperson, Board of Studies in Environmental Studies, Common Paper for the I Year Degree Students, will move the resolution for consideration and approval of the syllabus for Environmental Studies in the I & II Semesters (I Year) for BA. B.Com 83 B.Sc. Degree Courses as recommended by the Board of Studies meeting held 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.
- > 4.3: Dr.V.SUDHEER, Chairperson, Board of Studies in Course-1 (Communication & Soft Skills), Common Paper for I Year Degree Students. will move the resolution for consideration and approval of the syllabus for CSS-I of II Semester (I Year) & CSS-II of III Semester (II Year) for BA, B.Com & B.Sc. Degree Courses as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.



- > 4.4: Dr.CH.M.V.K.Hari, Chairperson, Board of Studies in Course ICT-I & II (Information & Communication Technology), Common Paper for I Year Degree Students. will move the resolution for consideration and approval of the syllabus for ICT-I of II Semester (I Year) & ICT-II of III Semester (II Year) for BA, B.Com & B.Sc. Degree Courses as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20 academic year onwards.
- > 4.5: Dr. K.Ravi Kumar, Chairperson, Board of Studies in Course Entrepreneurship), Common Paper for II Year IV Semester Degree Students, will move the resolution for consideration and approval of the svllabus for BA, B.Com & B.Sc. Degree Courses as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20.
- > 4.6: Dr.V.Ramesh Babu, Chairperson, Board Studies Analytical Skills Common Paper for II Year Degree Students, will move the resolution for consideration and approval of the syllabus for Environmental Studies in the IV Semester (II Year) for BA, B.Com & B.Sc. Degree Courses as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20.

#### Moving resolutions for the approval and ratification of Item-5: Syllabi for Restructured Courses.

The Principal places before the Academic Council for the approval of syllabus of five restructured courses offered by this college to the B.Sc, Students. These are Computer Science, Micro-Biology, Bio-Chemistry, Biotechnology and Industrial Chemistry with the following combination.



- > 5.1: Dr. CH.M.V. K.HARI, Chairperson, Board of Studies in Computer Science will move the resolution for consideration and approval of the syllabus for Computer Science Restructured Course offered to the three year B.Sc. Degree Course for the students of admitted batch of 2019-20 and 5th & 6th semester syllabus for 2017-18 & 2018-19 admitted batches as recommended by the Board of Studies meeting held on 10/10/2018.
- 5.2: Ms.T.Nikhita, Chairperson, Board of Studies in resolution for the Biotechnology will move for consideration and approval of the syllabus Biotechnology Restructured Course offered to the three year B.Sc. Degree Course as recommended by the Board of Studies meeting held on 10/10/2018, for the students of admitted batch of 2019-20.
- > 5.3: Dr. Ch. Lalitha, Chairperson, Board of Studies the resolution for will move in Microbiology consideration and approval of the syllabus for the students of admitted batch of 2019-20 and 5th & 6th semester syllabus for 2017-18 & 2018-19 admitted batches as recommended by the Board of Studies meeting held on 10/10/2018.
- > 5.4: Dr. Ch. Lalitha, Chairperson, Board of Studies in Biochemistry will move the resolution for consideration and approval of the syllabus for the students of admitted batch of 2019-20 and 5th & 6th semester syllabus for 2017-18 & 2018-19 admitted as recommended by the Board of Studies batches meeting held on 10/10/2018.
- > 5.5: Dr. K. B. K. Naik, Chairperson, Board of Studies in Industrial Chemistry will move the resolution for consideration and approval of the syllabus for Industrial Chemistry Restructured Course offered to the three year B.Sc. Degree Course as recommended by the Board of Studies meeting held on



10/10/2018, for the students of admitted batch of 2019-20.

#### Item 6: Rules and regulations of examinations under Semester system.

The Principal places before the Academic Council the Rules and Regulations of the Three Year (Six Semester) Degree Examinations implemented in this college following the existing practices of Choice Based Credit System based on UGC norms. As per the guidelines of the CCE the College adopted 40:60 pattern (40 % internal and 60% external) weightage in the semester examinations from the 2017-18 admitted batch onwards.

> > 6.1: Sri. P.S.Jagga Rao, Controller of Examinations will place before the Academic Council the rules and regulations, fee structure, Examination fee, revaluation fee etc. and other details implemented in this college

#### Item 7: Implementation of Choice Based Credit System.

The Principal places before the Academic Council the guidelines prescribed by the Commissioner of Collegiate Education, AP, Hyderabad for continuing implementation of Choice Based Credit System with the latest model as adopted by Andhra University and approved by APCHE.

#### Item 8: Introduction of Add-on courses and career Oriented programmes.

The Principal places before the Academic Council that the colleges has been offering 12 job-oriented add-on courses for 2019-20 academic year as well with due approval of the Academic Council.

> > 8.1: Dr.P.Sreevani, Coordinator for 12 Add-on Courses will move the resolutions for implementation of Career-oriented add-on courses as in the list during I, II or III Year Degree Course for the students in 2019-20 academic year.



S.No.	Name of the Add on Course
1	Certificate Course in E- Marketing
2	Certificate Course in English for Employment
3	Certificate Course in Food, Nutrition and Health Education
4	Certificate Course in Clinical Lab Technology
5	Certificate Course in Horticulture and Floriculture
6	Certificate Course in Mushroom Culture
7	Certificate Course in Fine Arts(Dance)
8	Certificate Course in Modern Office Management &
	Secretarial Practice
9	Certificate Course in Music
10	Certificate Course in Self Defense for Girls (Martial Arts)
11	Certificate Course in Tally
. 12	Certificate Course in Yoga & Meditation

- Item 9 : The college is implementing SWAYAM (Study Webs of Active Learning for Young Aspiring Minds), ICT based learning, MOOCS and Digital initiatives for Course Content as per the instruction of Commissioneriate Collegiate of Education Andhra Pradesh.
- Item 10: It is informed to the 5th Academic council that 12 Lakhs released by UGC under autonomous grants for the academic year 2016-17 & 2017-18 have been utilized as per the approved resolutions of Finance Committee. An amount of 2 crore rupees have been released under RUSA grants and utilized for new construction, renovation & repair works and equipment.

The college is also proposing to introduce new UG courses as soon as permission is accorded from the state government and affiliation from the Andhra University.



#### **Members Approval:**

Dept. of Zoology, Andhra University, 1. Prof. B. V. Sandeep, Visakhapatnam, University Representative Signature : Boudand 2-18

Dept. of Commerce & Management Studies, Andhra 2. Prof. P.Veni, University, Visakhapatnam, University Representative Signature :

3. Prof.D.S.V.V.D.Prasad, Dept. of Physics, Andhra University, Visakhapatnam, University Representative Signature :

N· 4. Dr.M.Ram Babu, Sr.Manager, Quality Control, HPCL, Visakhapatnam – member from Industry Signature :

5. Dr.B.Madhusudhana Rao, Principal Scientist, CIFT, Visakhapatnam

- Member from the field of Science Signature : M

6. Dr.P.Venkata Ramana Associate Professor, Andhra Medical College - Member from the field of Medicine

Signature :

pramour 25/10/18

7. Prof.R.Murali Krishna Rtd Director, School of Chemistry, Andhra University – Member from the field of Education Signature :

R. raly 25-1018



8. Sr. Lecturers as Academic Council Members :

i. Sri R.Rama Rao, Lecturer in Commerce, Dr.V.S.Krishna Govt. Degree College, Visakhapatnam n n Signature:

ii. Sri K.A.R.S.S.Prasad, Lecturer in Chemistry, Dr.V.S.Krishna Govt. Degree College, Visakhapatnam Signature: UPAG Mode

iii. Dr.Ch.Vishnu Murthy, Lecturer in Commerce, Dr.V.S.Krishna Govt. Degree College, Visakhapatnam Signature: QUOT

iv. Dr.G.Vijaya Pratap, Lecturer in Zoology Dr.V.S.Krishna Govt. Degree College, Visakhapatnam Signature: - C. Jer

9. Dr.Ch.Lalitha, Lecturer in Microbiology Dr.V.S.Krishna Govt. Degree College, Visakhapatnam & Coordinator IQAC.

Signature:

10. Dr.D.Sravana Kumar, Dr.V.S.Krishna Govt. Degree College, Visakhapatnam & Member Secretary, Academic Council. Signature :

11. Dr.V.Chandra Sekhar, Principal, Dr.V.S.Krishna Govt. Degree College, Visakhapatnam & Chairman, Academic Council.

Signature : V

# Heads of the Departments and Chairpersons of Boards of Studies

1.EnglishDr.V.Sudheer2.TeluguDr. D. Praveena3.HindiSmt. S. Suryavathi4.SanskritDr.P.Umamaheswara	
2.TeluguDr. D. Praveena3.HindiSmt. S. Suryavathi4.SanskritDr.P.Umamaheswara	
3.HindiSmt. S. Suryavathi4.SanskritDr.P.Umamaheswara	
4. Sanskrit Dr.P.Umamaheswara	
Rao	
5. History Dr.K.Somasekhar	$\bigcirc$
6. Economics Dr. D. Narayana Rao	insur
7. Political Science Dr. V. Ramesh Babu	0
8. Commerce Dr. K.Ravi Kumar	
9. Mathematics I/C Dr.V.Ramesh Babu	
10. Physics Dr.D.Sravan Kumar	ha
11. Chemistry Dr. K.B.K.Naik	
12. Industrial Chemistry Dr. K. B. K. Naik	
13. Computer Science Dr. Ch.V.M.K.Hari	55
14. Botany Dr.P.Sreevani	a
15. Zoology Dr. B.Krishna	
16. Microbiology Dr. Ch.Lalitha	25/10/2018
17. Biochemistry Dr. Ch.Lalitha	hill t
18. Biotechnology Ms.T.Nikhita	Duran .
19. HVPE Dr. D.Narayana Rao	how -
20. Environmental Studies Dr. T.M.A.Niveditha	
21. CSS-I & CSS – II Dr. V. Sudheer	J-TMA.
22 ICT-I & ICT –II Dr. Ch.V.M.K. Hari	1
23 Entrepreneurship Dr. K. Ravi Kumar	0
24 Analytical Skills Dr.V.Ramesh Babu	M
25 Add on Courses Dr.P. Sreevoni	
26 Controller of Examinations Sri P.S.Jagga Rao	-te





# 7<sup>th</sup> ACADEMIC COUNCIL

The Seventh Academic council meeting of Dr.V.S.Krishna Government Degree College (Autonomous) for all the programmes is held on 25-03-2021 at 4:00 PM through google meet.

## Moving resolutions for the approval of all the B.A,B.COM, B.SC and UGC NSQF programmes

### Item-1: Welcome Address

I, Dr.V.Chandra Sekhar, Principal, Dr V.S Krishna Government Degree College (A), and Chairman of Academic Council takes pleasure to welcome the honorable University nominees and other members to this 7<sup>th</sup> Academic Council meeting of Dr.V.S.Krishna Govt. Degree College(A), Visakhapatnam. It is a matter of recognition by the UGC that ours is the first Govt. College to have been given the status of Autonomy in the entire north costal Andhra Pradesh. This college was reaccredited by NAAC with **"A" grade at 3.11 CGPA** in 4 point scale. In 2018-19 UGC expert committee visited our college and granted autonomy (2<sup>nd</sup> cycle) for another period of 6 years. This College **secured 80<sup>th</sup> rank** in 2017, **162<sup>nd</sup> rank** in 2018,**111<sup>th</sup> rank** in 2019 and **164<sup>th</sup> rank** in 2020 in NIRF rankings at All India level.

- Board of Studies meetings in various courses were conducted in the month of January 2021 with revised curricular framework and updated syllabus of UG Programmes.
- 2. Life Skill Courses: There will be 4 Life Skill Courses in place of earlier 10 foundation courses with the same hours, credits, and maximum marks. The objective is to inculcate the required simple life-long skills. While the course in 'Environmental Education' continued to be mandatory, in case of others, students can opt one out of three courses, unlike in the existing system,

. . . .

where no choice is being given to students.

- 3. **Skill Development Courses:** A new set of 4 Skill Development Courses will be offered with 2 hours of teaching per week, two credits, 50 maximum marks and only external assessment. These courses are intended to train students in broad-based multiple career oriented general skills, in Arts, Commerce and Science streams but open to all students. A wider choice is given to students as they can choose one course from a total of six courses (two from each stream).
- 4. The preferred departments for teaching LSCs and SDCs are appended.
- 5. Core Courses: Three core courses of Domain subjects will be in the first three semesters, and the fourth and fifth courses will be in the fourth semester. Two domain SECs will be in the fifth semester. There will be uniformly five Core Courses in each Domain Subject in BA and BSc, and 15 in BCom.
- Skill Enhancement Courses: Two Skill Enhancement Courses will be offered for each domain subject, in Semester V. The two Skill Enhancement Courses of each domain subject will be linked for a wider basic and practical experience to students.

7.	Table-1: Main	Features of	the	Courses	in th	ne Revised	Curricular	Framework.
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Subject/Course	Hours / Week Theory	Hours / Week Practicals	Total Hours	Credits	Max Marks Internal Assessment	Max Marks University Exam	Total
Life Skills Course	02	-	02	02	-0-	50	50
Skill Development Course	02	-	02	02	-0-	50	50
Language Subject	04	-	04	03	25	75	100
Domain Arts/Commerce Subject	05	-	05	04	25	75	100
Domain Science Subject	04	02	05	05 (4+1)	25	75	100
Mathematics	06	-	06	05	25	75	100

8. The four courses of LSCs, SDCs and three courses of Languages (as they exist now) will be offered in the first three semesters as shown in the table below. The detailed structure is shown in Tabel-2 below.

Courses of	Sem-I	Sem-II	Sem-III	Sem-IV	Sem-V
Life Skills	1 (02)	1 (02)	2 (04)		
Skill Development	1 (02)	2 (04)	1 (02)		
Language – 1	C-1 (04)	C-2 (04)	C-3 (04)		·
Language – 2	C-1 (04)	C-2 (04)	C-3 (04)		
Domain Sub -1	C-1 (06)	C-2 (06)	C-3 (06)	C-4 (06)	SEC-1(06)
				C-5 (06)	SEC-2 (06)
Domain Sub -2	C-1 (06)	C-2 (06)	C-3 (06)	C-4 (06) C-5 (06)	SEC-1(06) SEC-2 (06)
Domain Sub -3	C-1 (06)	C-2 (06)	C-3 (06)	C-4 (06) C-5 (06)	SEC-1(06) SEC-2 (06)
Total Hours/Week	30	32	32	36	36

\* Figures in parenthesis are hours per week of Core Courses of Science. In respect of Arts and Commerce Courses, the hours per week for Core Courses will be 5.

\*\* SEC1 and SEC-2 in Sem-V are C-6 and C-7 respectively.

- 9. Co-curricular activities play an important role in promoting experiential selflearning and field-based learning in students, especially in learning higher order skills. The measurable pedagogical activities can be a small part of internal assessment.
- 10. To ensure inculcating social responsibility and compassionate commitment among the students, the summer vacation in the intervening 1<sup>st</sup> and 2<sup>nd</sup> years of study shall be for Community Service. Detailed guidelines at college level will be framed after issue of guidelines from State Higher Education department.
- 11. To make the students employable, an Apprenticeship / Internship / On the job training shall be undertaken by the students in the intervening summer

vacation between the 2<sup>nd</sup> and 3<sup>rd</sup> years.

- 12. During the entire 6<sup>th</sup> Semester, the student shall undergo Apprenticeship / Internship / On the Job Training. This is to ensure that the students develop hands on technical skills which will be of great help in facing the world of work. Detailed guidelines at college level will be framed after issue of guidelines from State Higher Education department.
- <u>Item-2:</u> Introduction of all the Heads of the Department to the University nominees.
- Item-3: Moving resolutions for the approval of the New Syllabus along with allocation of credits for B.A., B.Sc., & B.Com., Courses under Choice Based credit System from 2020-21 academic year onwards of I to IV Semesters.

The Principal places before the Academic Council, the Syllabi of all the subjects of B.A, B.Com and B.Sc. as recommended by the respective Boards of Studies of different subjects held in the College on different dates in the month of January 2021. He also places before the Academic Council the Minutes of BOS Meetings of all the subjects with revisions made by the Subject experts for their perusal and requests them to approval after incorporating their suggestions and modifications, if any.

- 3.1: Dr. V.Sudheer, Chairman, Board of Studies of English will move the resolution for consideration and approval of the syllabus for English of I and II Semesters (I Year) and III and IV Semesters (II Year) for B.A, B.Com, B.Sc. Degree and UGC NSQF Courses as recommended by the Board of Studies meeting, for the students of admitted batch of 2020-21 academic year onwards.
- 3.2: Dr. V.Sudheer, Chairman, Board of Studies of English, will move the resolution for consideration and approval of the syllabus for Special English of the syllabus for English of I and II Semesters (I Year) and III and IV Semesters (II Year) for B.A, B.Com, B.Sc. Degree and UGC NSQF Courses as recommended by the Board of Studies meeting, for the students of admitted batch of 2020-21 academic year onwards.
- <u>3.3:</u> Dr. D.Praveena, Chairman, Board of Studies of Telugu, will move the resolution for consideration and approval of the syllabus for Telugu

of I, II and III Semesters for B.A, B.Com, and B.Sc Degree Courses as recommended by the Board of Studies meeting, for the students of admitted batch of 2020-21 academic year onwards.

- 3.4: Smt. S. Suryavathi, Chairman, Board of Studies of Hindi, will move the resolution for consideration and approval of the syllabus for Hindi of I, II and III Semesters for B.A, B.Com, and B.Sc Degree Courses as recommended by the Board of Studies meeting, for the students of admitted batch of 2020-21 academic year onwards.
- 3.5: Dr.P.Umamaheswara Rao, Chairman, Board of Studies of Sanskrit, will move the resolution for consideration and approval of the syllabus for Sanskrit of of I, II and III Semesters for B.A, B.Com, and B.Sc Degree Courses as recommended by the Board of Studies meeting, for the students of admitted batch of 2020-21 academic year onwards.
- 3.6: Dr.K.Soma Sekhar, Chairman, Board of Studies of History, will move the resolution for consideration and approval of the syllabus for History of I and II Semesters, (I Year), III and IV Semesters (II Year) for B.A Degree Courses as recommended by the Board of Studies meeting, for the students of admitted batch of 2020-21 academic year onwards.
- 3.7: Dr. D. Narayana Rao, Chairman, Board of Studies of Economics(in combinations) and Economics (major) will move the resolution for consideration and approval of the syllabus for Economics of I and II Semesters, (I Year), III and IV Semesters (II Year) for B.A Degree Courses as recommended by the Board of Studies, for the students of admitted batch of 2020-21.
  - 3.8: Dr.V. Ramesh Babu, Chairman, Board of Studies of Political Science, will move the resolution for consideration and approval of the syllabus for Political Science of I and II Semesters, (I Year), III and IV Semesters (II Year) for B.A Degree Courses as recommended by the Board of Studies, for the students of admitted batch of 2020-21 academic year onwards.
  - 3.9: Sri R.Rama Rao, Chairman, Board of Studies of Commerce, will move the resolution for consideration and approval of the syllabus for

B.Com general, Accounting & taxation and Computer applications  $\mathfrak{S}_{\mathfrak{l}_1}$ and II Semesters, (I Year), III and IV Semesters (II Year) for B.Com Degree Course as recommended by the Board of Studies meeting, for the students of admitted batch of 2020-21 academic year onwards.

- 3.10: Smt D.Triveni, Chairman, Board of Studies of Mathematics, will move the resolution for consideration and approval of the syllabus for Mathematics of I and II Semesters, (I Year), III and IV Semesters (II Year) for B.Sc. Degree Courses as recommended by the Board of Studies, for the students of admitted batch of 2020-21 academic year onwards.
- 3.11: Smt D.Triveni, Chairman, Board of Studies of Statistics, will move the resolution for consideration and approval of the syllabus for Statistics of I and II Semesters, (I Year), III and IV Semesters (II Year) for B.Sc. Degree Courses as recommended by the Board of Studies, for the students of admitted batch of 2020-21 academic year onwards.
- 3.12: Sri K.Rama Rao, Chairperson, Board of Studies of Physics, will move the resolution for consideration and approval of the syllabus for Physics of I and II Semesters, (I Year), III and IV Semesters (II Year) for B.Sc. in combination and Physics(Major) Degree Courses as recommended by the Board of Studies, for the students of admitted batch of 2020-21 academic year onwards.
- 3.13: Dr. K.B. K.Naik, Chairman, Board of Studies of Chemistry, will move the resolution for consideration and approval of the syllabus for Chemistry of I and II Semesters, (I Year), III and IV Semesters (II Year) for B.Sc. in combination and Chemistry (Major) Degree Courses as recommended by the Board of Studies, for the students of admitted batch of 2020-21 academic year onwards.
- 3.14: Dr.P.Sreevani, Chairperson, Board of Studies of Botany, will move the resolution for consideration and approval of the syllabus for Botany of I and II Semesters, (I Year), III and IV Semesters (II Year) for B.Sc. Degree Courses as recommended by the Board of Studies, for the students of admitted batch of 2020-21 academic year onwards.
- 3.15: Dr. B. Krishna, Chairperson, Board of Studies of Zoology, will move the resolution for consideration and approval of the syllabus for Zoology of I and II Semesters, (I Year), III and IV Semesters (II Year)) for

B.Sc. Degree Courses as recommended by the Board of Studies, for the students of admitted batch of 2020-21 academic year onwards.

# <u>Item-4:</u> Moving resolutions for the approval of Syllabi for Life skill courses and Skill Development courses

The Principal places before the Academic Council, the Syllabi of the following Common Subjects of B.A, B.Com and B.Sc. as recommended by the respective Boards of Studies held in the College on different dates in the month of January 2021. He also places before the Academic Council the Minutes of BOS Meetings of all the subjects with revisions made by the Subject experts for their perusal and requested them to ratify after incorporating their suggestions and modifications, if any.

S.NO.	Name of the course	Chairperson
1	Personality Development and	Dr.V.Sudheer
	Leadership	
2	Human Values and Professional Ethics	Dr.D.Narayana Rao
3	Performing Arts	Dr.D.Praveena
4	Entrepreneurship	Sri R.Rama Rao
5	Environmental education	Dr.P.Sreevani
6	Computer Applications	Dr.CH.V.M.K.Hari
7	Information and Communication	Dr.CH.V.M.K.Hari
	Technology	
8	Indian Culture and Science	Dr.K.Somasekhar
9	Elementary statistics	Smt D.Triveni
10	Analytical skills	Smt D.Triveni

## Life skill courses

## Skill development courses

S.NO.	Name of the course	Chairperson
1	Business communication	Dr.V.Sudheer
2	Journalistic Reporting	Dr.V.Sudheer
3	Disaster Management	Dr.V.Sudheer
4	Secretaryship	Sri R.Rama Rao
5	Insurance promotion	Sri R.Rama Rao
6	Agricultural marketing	Sri R.Rama Rao

7	Advertising	Sri R.Rama Rao
8	Logistics & supply chain	Sri R.Rama Rao
9	Online Business	Sri R.Rama Rao
10	Retailing	Sri R.Rama Rao
11	Plant Nursery	Dr.P.Sreevani
12	Fruit & vegetable preservation	Dr.P.Sreevani
13	Tourism Guidance	Dr.K.Somasekhar
14	Public Relations	Dr.V.Ramesh Babu
15	Social work methods	Dr.V.Ramesh Babu
16	Survey and Reporting	Dr.D.Narayana Rao
17	Financial markets	Dr.D.Narayana Rao
18	Food Adulteration	Dr.KBK.Naik
19	Environment audit	Dr.KBK.Naik
20	Electrical Appliances	Sri K.Rama Rao
21	Solar Energy	Sri K.Rama Rao
22	Dairy techniques	Dr.B.Krishna

# LIST OF LIFE SKILL COURSES

Semester	No. of Courses	Choices	Preferred Teaching Dept.
I	01	Computer Applications Human Values and Professional Ethics	Computers English/Telugu/Any Dept
11	01	Entrepreneurship Information and	Commerce Computers
		Communication Technology	
		Indian Culture and Science	History/Telugu
		Elementary Statistics	Statistics/Maths/Economics/ Commerce
	02	Health and Hygiene	Zoology/Botany
	_	Personality Development and Leadership	English/ Any Dept
		Analytical Skills	Maths/Statistics
		Environmental Education	Botany/Zoology/Environmental Sciences/Any Dept

# List of Skill Development Courses along with their Semester-wise allotment with choices. Preferred Teaching Departments are given in the parenthesis.

Sem	No. of Courses	Stream – A (Arts)	Stream – B (Commerce)	Stream – C (Science)
1	01	Tourism Guidance (History)	Secretaryship	Electrical Appliances (Physics)
		Public Relations (Pol Sci /English)	Insurance Promotion	Plant Nursery (Botany)
11	02	Journalistic Reporting	Agricultural Marketing	Solar Energy (Physics)
		(English)		
		Survey & Reporting (Economics/History)	Business Communication (English)	Fruit & Vegetable Preservation (Botany)
		Social Work Methods (Pol Sci)	Advertising	Dairy Techniques (Zoology)
		Performing Arts (Telugu)	Logistics & Supply Chain	Food Adulteration (Chemistry)
111	01	Financial Markets (Economics)	Online Business	Environment Audit (Chemistry)
		Disaster Management (English /Telugu)	Retailing	Poultry Farming (Zoology)

# <u>Item-5:</u> Moving resolutions for the approval and ratification of Syllabi for Restructured Courses.

The Principal places before the Academic Council for the approval of syllabus of Four restructured courses offered by this college to the B.Sc, Students. These are **Computer Science**, **Biochemistry**, **Microbiology**, **Biotechnology**, **Industrial chemistry**, and **Aquaculture** with the following combination.

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- 5.1: Dr. CH.M.V.K.HARI, Chairperson, Board of Studies in Computer Science will move the resolution for consideration and approval of the syllabus for Computer Science Restructured Course offered to the 4 semesters of B.Sc. Degree Course as recommended by the Board of Studies for the students of admitted batch of 2020-21.
- 5.2: Ms.T.Nikhita, Chairperson, Board of Studies in Biotechnology will move the resolution for consideration and approval of the syllabus for Biotechnology Restructured Course offered to the 4 semesters of B.Sc. Degree Course as recommended by the Board of Studies, for the students of admitted batch of 2020-21.
- 5.3: Dr.CH.Lalitha, Chairperson, Board of Studies in Microbiology will move the resolution for consideration and approval of the syllabus for Microbiology Restructured Course offered to the 4 semesters of B.Sc. Degree Course as recommended by the Board of Studies, for the students of admitted batch of 2020-21.
- 5.4: Dr.CH.Lalitha, Chairperson, Board of Studies in Biochemistry will move the resolution for consideration and approval of the syllabus for Biochemistry Restructured Course offered to the 4 semesters of B.Sc. Degree Course as recommended by the Board of Studies, for the students of admitted batch of 2020-21.
- 5.5: Dr.K.B.K.Naik, Chairperson, Board of Studies in Industrial Chemistry will move the resolution for consideration and approval of the syllabus for Industrial Chemistry Restructured Course offered to the 4 semesters of B.Sc. Degree Course as recommended by the Board of Studies, for the students of admitted batch of 2020-21.

5.6: Dr.B.Krishna, Chairperson, Board of Studies in B.Voc aquaculture will move the resolution for consideration and approval of the syllabus for aquaculture (UGC NSQF Restructured vocational Course )offered to the 4 semesters of B.Sc. Degree Course as recommended by the Board of Studies, for the students of admitted batch of 2020-21.

# Item 6: Rules and regulations of examinations under Semester system.

The Principal places before the Academic Council the Rules and Regulations of the Three Year (Six Semester) Degree Examinations implemented in this college following the existing practices of Choice Based Credit System informed by the UGC. Total number of credits for B.A and B.com are 287 ;for B.Sc 329 plus 2 extra credits for certificate courses are offered from 2020-21 onwards.

6.1: Sri. R.Rama Rao, Controller of Examinations will place before the Academic Council the rules and regulations, fee structure, Examination fee, revaluation fee etc. and other details implemented in this college

# Item 7: Introduction of Value added courses(Add-on courses) and career Oriented programmes.

The Principal places before the Academic Council that the college has been offering 10 job-oriented value-added courses from the 2020-21 academic year onwards.

7.1: Dr.D.Praveena, Coordinator for 10 value added courses will move the resolutions for implementation of Career-oriented add-on courses as in the list during I and II Year students from 2020-21 academic year onwards.

S.No.	Name of the Add on Course	Name of the coordinator
1	Certificate Course in	Dr.V.Sudheer
2	Communicative English Certificate Course in Nutrition and Health Education	Dr.Ch.Lalitha
3	Certificate Course in Clinical Lab Technology	Smt J.Laxmi Mangamma
4	Certificate Course in Mushroom Culture	Smt T.Nikita
5	Certificate Course in Horticulture and Floriculture	Dr.P.Sreevani
6	Certificate Course in Bhasha Swaroopa swabhavalu	Dr.D.Praveena
7	Certificate Course in Music	Dr.G.Vijay Pratap
8	Certificate Course in Self Defense for Girls (Martial Arts)	Sri K.Rama Rao
9	Certificate course in Yoga and meditation	Sri P.S.Jagga Rao
10	Certificate Course in E-commerce	Sri R.Rama Rao

Item 8: Adaption of SWAYAM (Study Webs of Active Learning for Young Aspiring Minds) and Digital initiatives for course Content as per the instruction of Commissionerate Collegiate of Education Andhra Pradesh.

# <u>Heads of the Departments and Chairpersons</u> <u>of Boards of Studies</u>

S1.	Subject	Name of the Lecturer in	Signature		
No.	Subject	Charge			
1.	English	Dr.V.Sudheer	257		
2.	Telugu	Dr.D.Praveena	Dareng		
3.	Hindi	Smt.S.Suryavathi	N		
4.	Sanskrit	Dr.P.Uma Maheswara Rao	E.		
5.	History	Dr.K.Somasekhar	Co		
6.	Economics	Dr.D.Narayana Rao	CNerg		
7.	Political Science	Dr.V.Ramesh Babu			
8.	Commerce	Sri R.Rama Rao	Mut		
9.	Mathematics	Smt D.Triveni	int		
10.	Physics	Sri K.Rama Rao	bh		
11.	Chemistry	Dr.K.B.K.Naik	Weath		
12.	Industrial Chemistry	Dr.K.B.K.Naik	Keat 6 -		
13.	Computer Science	Dr.Ch.V.M.K.Hari	1		
14.	Botany	Dr.P.Sreevani	ht		
15.	Zoology	Dr.B.Krishna	Birthing		
16.	Microbiology	Dr.Ch.Lalitha	tatile		
17.	Biochemistry	Dr.Ch.Lalitha	Johnthe		
18.	Biotechnology	Smt.T.Nikhita	Mitatly.		
19.	Add on Courses	Dr.D.Praveena	D. Proveena		

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# I.University nominees:

S.NO.	Name and designation of the members	Signature
1.	<b>Prof.Ch.Satyananda Reddy,</b> Dept. of Computer Science & System Engg, A.U.College of Engineering, Visakhapatnam.	Quer Sp
2.	<b>Prof. B. Mohan Venkataram,</b> Department of Commerce, A.U. College of Arts & Commerce Visakhapatnam.	Bru
3.	<b>Prof.K.Samatha,</b> Dept. of Physics Andhra University Visakhapatnam.	K- Cmalls

# II. Experts/academicians from outside the College :

S.NO.	Name and designation of the members	Signature
4.	Dr.N.Ram Babu, Sr.Manager, Quality Control HPCL Visekhauster	
	member from Industry	- murch
5.	<b>Dr.B.Madhusudhana Rao</b> , Principal Scientist, CIFT, Visakhapatnam - Member from the field of Science	MJJ
6.	Dr.P.Venkata Ramana, Associate Professor, Andhra Medical College - Member from the field of Medicine	P.V.Ramman
7.	<b>Prof.R.Murali Krishna</b> , Rtd Director, School of Chemistry, Andhra University – Member from the field of Education	R. Ichlic

# III. Sr. Lecturers as Academic Council Members :

S.NO.	Name and designation of the man	
	services of the members	Signature
8.	Sri R.Rama Rao, Lecturer in Commona	
	Dr.V.S.Krishna Govt. Degree	hm
	College, Visakhapatnam	100
9.	Dr.K.B.K.Naik, Lecturer in Chemistry	
	Dr.V.S.Krishna Govt. Degree	Rath

	College, Visakhapatnam	
10.	Dr.Ch.Vishnu Murthy, Lecturer in	61
	Commerce, Dr.V.S.Krishna Govt.	awe
	Degree College, Visakhapatnam	_
11.	Dr.G.Vijaya Pratap, Lecturer in Zoology	
	Dr.V.S.Krishna Govt. Degree	L.L (
	College, Visakhapatnam	t

12. Dr.Ch.Lalitha, Lecturer in Microbiology Dr.V.S.Krishna Govt. Degree College, Visakhapatnam & Coordinator IQAC. Signature:

13. Dr.D.Sravana Kumar, Reader in Physics, Dr.V.S.Krishna Govt. Degree College, Visakhapatnam & Member Secretary, Academic Council.

Signature :

14. Dr.V.Chandra Sekhar, Principal, Dr.V.S.Krishna Govt. Degree College, Visakhapatnam & Chairman, Academic Council. Signature : V



### **Dr.V.S.KRISHNA GOVT. DEGREE COLLEGE**

(AUTONOMOUS) NODAL RESOURCE CENTRE & AU CENTRE FOR RESEARCH Maddilapalem, Visakhapatnam – 530013, Andhra Pradesh. 0891-2553262, https://www.drvskrishnagdc.edu.in



#### A.P. State Council of Higher Education Revised Common Framework of CBCS for B.Com in AP Revised 2016 B.Com - Semester -I

SI. No.	Course	Name of the subject	Total Marks	Mid. Sem. Exam*	Sem. End Exam	Teaching Hours**	Credits
1.	First	English	100	25	75	4	3
	Language						
2.	Second	(Tel/Hindi/Urdu/Sans)	100	25	75	4	3
	Language						
3.	Foundation	HVPE (Human Values &	50		50	2	2
	Course -1	Professional Ethics)*					
4.	Foundation	Environmental Studies	50		50	2	2
	Course- 2						
5.	DSC 1 A	Fundamentals of Accounting-I	100	25	75	5	4
6.	DSC 2 A	Business Organization	100	25	75	5	4
7.	DSC 3 A	Business Economics-I	100	25	75	5	4
Total			600	125	475	27	22

#The marks split between formal test and co-curricular activities may be decided by the University concerned @ Syllabus size shall be in accordance with the No. of teaching hours. \*HVPE may be taught by Telugu teachers

SI. No.	Course	Name of the subject	Total Marks	Mid. Sem. Exam	Sem. End Exam	Teaching Hours**	Credits
1.	First Language	English	100	25	75	4	3
2.	Second Language	(Tel/Hindi/Urdu/Sans)	100	25	75	4	3
3.	Foundation Course -3	ICT-1 (Information & communication Technology)	50		50	2	2
4.	Foundation Course-4	Communication & Soft Skills-1	50		50	2	2
5.	DSC 1 B	Fundamentals of Accounting-II	100	25	75	5	4
6.	DSC 2 B	Business Environment	100	25	75	5	4
7.	DSC 3 B	Business Economics-II	100	25	75	5	4
Total			600	125	475	27	22

B.Com - Semester - II

SI. No.	Course	Name of the subject	Total Marks	Mid. Sem. Exam	Sem. End Exam	Teaching Hours**	Credits
1.	First Language	English	100	25	75	4	3
2.	Second Language	(Tel/Hindi/Urdu/Sans)	100	25	75	4	3
3.	Foundation Course- 5	ICT-2 (Information & communication Technology)	50		50	2	2
4.	Foundation Course- 6	Communication & Soft Skills-2	50		50	2	2
5.	DSC 1 C	Corporate Accounting	100	25	75	5	4
6.	DSC 2 C	Business Statistics	100	25	75	5	4
7.	DSC 3 C	Banking Theory & Practice	100	25	75	5	4
Total			600	125	475	27	22

**B.Com- Semester – III** 

B.Com -Semester – IV							
SI. No.	Course	Name of the subject	Total Marks	Mid. Sem. Exam	Sem. End Exam	Teaching Hours**	Credits
1.	Foundation Course- 7	Communication & Soft Skills-3	50		50	2	2
2.	Foundation Course- 8	Analytical Skills*	50		50	2	2
3.	Foundation Course- 9	Entrepreneurship	50		50	2	2
4.	Foundation Course- 10	Leadership Education**	50		50	2	2
5.	DSC 1 D	Accounting for Service organizations	100	25	75	5	4
6.	DSC 2 D	Business Laws	100	25	75	5	4
7.	DSC 3 D	Income Tax	100	25	75	5	4
Total			500	75	425	23	20

\* To be taught by Maths/Statistics Teachers (and partly by English teachers) \*\* To be taught by Telugu Teachers

#### Table-5: B.Com -Semester – V (w.e.f 2018-19)

1       DSC 1 E       5.2 Cost Accounting       100       25       75       5         2.       DSC 2 E       5.3 Goods and Services Tax Fundamentals       100       25       75       5         3.       DSC 3 E       5.4 Commercial Geography       100       25       75       5         4.       Elective-DSC 1F/Inter-disp.       Cluster Electives -1       100       25       75       5         5.       Elective-DSC 2F /Inter-disp.       I. E-Commerce       100       25       75       5         6.       Elective-DSC 3F/Inter-disp.       5.6 Business Networks       100       25       75       5         7.       Project Work: Working with Organizations on e-Commerce activities, viz., Amazon.com., Flipkart, etc. /Online Operations in Banks       100       25       75       5         2.       Retailing       2.       Retailing       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100	Credits
2.DSC 2 E5.3 Goods and Services Tax Fundamentals100257553.DSC 3 E5.4 Commercial Geography100257554.Elective-DSC 1F/Inter-disp. <b>Cluster Electives -1</b> 100257555.Elective-DSC 2F /Inter-disp. <b>I. E-Commerce</b> 5.5 e-Commerce100257556.Elective-DSC 3F/Inter-disp. <b>I. E-Commerce</b> 5.6Business Networks100257556.Elective-DSC 3F/Inter-disp. <b>5.7 Project Work:</b> Working with Organizations on e-Commerce activities, viz., Amazon.com., Flipkart, etc. /Online Operations in Banks10025755 <b>2. Retailing2. Retailing2. Retailing</b> 10025755	4
3.DSC 3 E5.4 Commercial Geography100257554.Elective-DSC 1F/Inter-disp.Cluster Electives -1100257555.Elective-DSC 2F /Inter-disp.1. E-Commerce 5.5 e-Commerce100257556.Elective-DSC 3F/Inter-disp.5.6Business Networks100257556.Elective-DSC 3F/Inter-disp.5.6Business Networks100257557.Project Work: Working with Organizations on e-Commerce activities, viz., Amazon.com., Flipkart, etc. /Online Operations in Banks100257552.Retailing2.Retailing100100100100	4
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5.       Elective-DSC 2F /Inter-disp.       1. E-Commerce       100       25       75       5         6.       Elective-DSC 3F/Inter-disp.       5.6 Business Networks       100       25       75       5         0.       Elective-DSC 3F/Inter-disp.       5.7 Project Work: Working with Organizations on e-Commerce activities, viz., Amazon.com., Flipkart, etc. /Online Operations in Banks       100       25       75       5         2.       Retailing       2.       Retailing       100       100       100       100       100	4
2F /Inter-disp.5.5 e-Commerce100257556.Elective-DSC 3F/Inter-disp.5.6 Business Networks 5.7 Project Work: Working with Organizations on e-Commerce activities, viz., Amazon.com., Flipkart, etc. /Online Operations in Banks1002575510025755	
6.       Elective-DSC 3F/Inter-disp.       5.6Business Networks 5.7 Project Work: Working with Organizations on e-Commerce activities, viz., Amazon.com., Flipkart, etc. /Online Operations in Banks       100       25       75       5         2. Retailing       2. Retailing       2. Retailing       100       25       100       25       100	4
3F/Inter-disp.       5.7 Project Work: Working with Organizations on e-Commerce activities, viz., Amazon.com., Flipkart, etc. /Online Operations in Banks       100       25       75       5         2. Retailing       2. Retailing       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100 <td< td=""><td></td></td<>	
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Operations in Banks 2. Retailing	
2. Retailing	
2. Retailing	
0	
5.5 Purchase Management	
5.6 Stores Management	
5.7 Project Work: Survey on Rural	
Producers/Retailing_Practices (Kirana)	
3. Corporate Accounting	
5.5 Accounting & Auditing Standards	
5.6 Accounting for Government Entities	
5.7 Project Work: Application of Accounting	
& Auditing Standards in Companies	
Internship in Govt. Depts. (Treasury, Local	
Bodies, Public Utilities, Govt, Corporations,	
etc.)	
4. Security Market Operations	
5.5 Financial Markets	
5.6 Stock Market Operations	
5.7 Project Work: Survey on Investment	
behaviour/Working with on Stock issues	
Share transfers. Documentation Commodity	
trading Derivatives etc	
5. Banking & Financial Services	
5.5 Central Banking	
5.6 Rural and Farm Credit	
5.7 Project Work: Rural Credit	
survey/Banking operations/Credit Appraisal	
6. Taxation	
5.5Assessment of Tax: Individual HUF and	
Partnership	
5.6 Corporate Taxation	
5.7 Project Working on Tax Filing	
Procedures & Documentation with IT	
Dept/Auditor/Tax Consultant	
7. Insurance	
5.5 Life Insurance	
5.6 Non- Life Insurance	

Total	<ul> <li>5.7 Project Work: Working with Insurance Companies/Development Officers/Agents on Policies &amp; Documentation.</li> <li>8. Logistics &amp; Supply Chain Management</li> <li>5. Logistics Management - Surface</li> <li>5. GLogistics Management - Air and Sea</li> <li>5. 7Project Work: Internship in Transport Organizations/ Railways/Ports /Tour Operators (on Goods, Parcel and Courier Services)</li> <li>9. Advertising and Sales Promotion</li> <li>5.5 Advertising and Media Planning</li> <li>5.6 Brand Management</li> <li>5.7 Project Work: Working with Advertising Agencies/ Survey in Business units</li> <li>10. Computer Applications</li> <li>5.5 Database Management &amp; Report Generator</li> <li>5.6 Management Information system</li> <li>5.7 Project Work: Working on Debase Applications &amp; Report generations and Documentation / Designing MIS Systems in different types of business units.</li> </ul>	600			30	24
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#### Table-6: B.Com- Semester – VI

SI. No.	Course	Name of the subject	Total Marks	Mid. Sem. Exam	Sem. End Exam	Teaching Hours**	Credits
1.	DSC 1 G	6.2 Marketing	100	25	75	5	4
2.	DSC 2 G	6.3 Auditing	100	25	75	5	4
3.	DSC 3 G	6.4 Management Accounting	100	25	75	5	4
4.	Elective-DSC 1 H/Inter- disp./Gen. Elec.	Cluster Electives -2 <i>IA. e-Commerce</i> 6.5 e-Payments System 6.6 Social Media and e-Marketing	100	25	75	5	4
5.	Elective-DSC 2H/Inter- disp./Gen. Elec.	6.7 <b>Project Work:</b> Working with Organizations on Tele-marketing /e- Shopping Activities	100	25	75	5	4
6.	Elec. Elective-DSC 3H/Inter- disp./Gen. Elec.	<ul> <li>2A. Retailing <ul> <li>6.5 Agricultural &amp; Rural Marketing</li> <li>6.6 Warehouse Management</li> <li>6.7 Project Work: Survey on Hawkers/ Working with Warehouses</li> </ul> </li> <li>3A. Corporate Accounting <ul> <li>6.5 Financial Reporting</li> <li>6.6 Emerging Areas in Accounting</li> <li>6.7 Project Work: Financial Reporting practices in Companies/ Survey on Human Resource/ Environmental Accounting.</li> </ul> </li> <li>4A. Security Market Operations <ul> <li>6.5 Derivatives Trading</li> <li>6.6 Stock Market Regulatory Framework</li> <li>6.7 Project Work: Internship in Stock</li> </ul> </li> <li>Exchanges/ Mutual Funds /Working with Stock Brokers </li> <li>5A. Banking &amp; Financial Services <ul> <li>6.6 Marketing of Financial Services</li> <li>6.7 Project Work: Working with Financial Services Firms on Documentation for Sanction of Loans and financial Services</li> </ul> </li> <li>6A. Taxation <ul> <li>6.5 Goods &amp; Service Tax and Customs Act</li> <li>6.6 Tax Planning and Management</li> <li>6.7 Project Work: Internship on Tax Planning Practices in Business Units</li> </ul> </li> <li>7A. Insurance <ul> <li>6.5 Marketing of Insurance Services</li> <li>6.6 Insurance Regulatory Framework</li> <li>6.7 Project Work: Survey on Settlement of Claims and Customer Care</li> </ul> </li> </ul>	100	25	75	5	4
		Management					

	<ul> <li>5.5 Supply Chain Management - Products</li> <li>5.6 Supply Chain Management - Services</li> <li>5.7 Project Work: Internship with Freight</li> <li>Operators/ Supply Chain Management</li> <li>Practices in Business Units</li> <li>9A. Advertising and Sales Promotion</li> <li>6.5 Sales Promotion</li> <li>5.6 Direct Marketing</li> <li>5.7 Project work: Survey with Customers/Sales Force/Middlemen</li> <li>10A. Computer Applications</li> <li>6.6 Enterprise Resource Planning</li> <li>6.7 Project Work: Working on the applications of ERP packages in Companies / Internship/Projects in e-Commerce</li> <li>Companies on the Design and Creation of websites.</li> </ul>				
Total		600		30	24
Grand Total				164	134

Note:

1. Titles of a few Electives Streams are given for DSC- F(1F, 2F & 3F combined) at V Semester and the same titles are repeated for DSC – H(1H, 2H & 3H combined). Each Elective Stream consists of two theory papers and one project work for each semester. The total for V & VI semesters will be four theory papers and two project works under each stream. A student has to select **One Stream of Elective consisting of four theory papers and two projects** (together for V & VI semesters). That means, the student will continue the same elective in the VI semester also.

2. The colleges have to **implement original project work** which may consist of field survey/internship/case study/practical training also for the third respective elective papers in V & VI semester.

J. Wis PRINCIPAL Dr. V.S. Krishna Govt. Degree College (A VISAKHAPATNAM


NODAL RESOURCE CENTRE & AU CENTRE FOR RESEARCH Maddilapalem, Visakhapatnam - 530013, Andhra Pradesh. 0891-2553262, https://www.drvskrishnagdc.edu.in



### Andhra Pradesh State Council of Higher Education B.Sc. Chemistry Syllabus under CBCS

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YEAR	SEMESTER	PAPER	TITLE	MARKS	CREDITS
	Ι	Ι	Inorganic and Organic Chemistry	100	03
т			Practical – I	50	02
I	II	II	Physical and General Chemistry	100	03
			Practical – II	50	02
	III	III	Inorganic and organic Chemistry	100	03
т			Practical – III	50	02
11	IV	IV	Spectroscopy and Physical Chemistry	100	03
			Practical – IV	50	02
		V	Inorganic ,Organic and Physical Chemistry	100	03
	v		Practical – V	50	02
		VI	Inorganic ,Organic and Physical Chemistry	100	03
			Practical – VI	50	02
	* Any one	VII (A)*	Elective	100	03
	Paper from		Practical - VII A	50	02
Ш	VII A. B	VII (B)*	Elective	100	03
FFF	and C		Practical - VII B	50	02
2010		VII (C)*	Elective	100	03
2010-	**		Practical - VII C	50	02
19	Any one	VIII (A)**	Cluster Electives - I :	100	03
	cluster		VIII-A-1	100	03
	from VIII,		VIII-A-2	100	03
	A, B and C		VIII-A-2	50	02
			Practical VIII-A-1	50	02
			Practical VIII-A-2	50	02
			Project Work/Internship VIII-		
			A-2		

#### Structure of Chemistry Syllabus Under CBCS

VI	VIII (B)**	Cluster Electives - II :: VIII-B-1 VIII- B-2 VIII-B-3 Practical VIII-B-1 Practical VIII-B-2 Project work /Internship VIII- B-3	100 100 100 50 50 50	03 03 03 02 02 02 02
	VIII (C)**	Cluster Electives - III :: VIII-C-1 VIII-C-2 VIII-C-3 Practical VIII-C-1 Practical VIII-C-2 Project work /Internship VIII- C-3	100 100 100 50 50 50	03 03 03 02 02 02 02

g. vol 25 PRINCIPAL 5. Dr. V.S. Krishna Govt. Degree College (A) VISAKHAPATNAM



**Dr.V.S.KRISHNA GOVT. DEGREE COLLEGE** 

(AUTONOMOUS) NODAL RESOURCE CENTRE & AU CENTRE FOR RESEARCH Maddilapalem, Visakhapatnam - 530013, Andhra Pradesh. 0891-2553262, https://www.drvskrishnagdc.edu.in



#### AP STATE COUNCIL OF HIGHER EDUCATION ZOOLOGY COURSE STRUCTUREUNDERCBCS

YEAR	SEMESTER	PAPER	TITLE	MARKS	CREDITS
	I	I	Biology of Non-chordates	100	03
-	1	1	Practical - I	50	02
l	II	П	Biology of Chordates	100	03
	11		Practical - II	50	02
	Ш	Ш	Cell biology. Genetics and	100	03
		111	Evolution		
тт			Practical - III	50	02
11	IV	IV	Embryology, Physiology and	100	03
	<b>1</b> V		Ecology		
			Practical - IV	50	02
		V	Animal Biotechnology	100	03
	V		Practical - V	50	02
	v	VI	Animal Husbandry	100	03
			Practical - VI	50	02
	*Any one	VII (A)*	Immunology	100	03
	Paper from		Practical - VII (A)	50	02
	A B and C	VII (B)*	VII (B)* Cellular Metabolism and		03
			Molecular Biology		
	** Any one		Practical - VII (B)	50	02
	· · Any one	VII (C)*	Bioinformatics	100	03
	cluster		Practical - VII (C)	50	02
	from I, II		Cluster Electives –VIII-A :		
ш	and III	Cluster	Medical Diagnostics		
		VIII-A**	1. Clinical Biochemistry	100	03
(W.E.F			2. Haematology	100	03
2018-			3. Clinical Microbiology	100	03
19)			Practical – VIII: 1	50	02
			Project Work	50	02
	VI		Cluster Floctives VIII-B :	50	02
	V I	Cluster	A quaculture		
		VIII B**	1 Principles of Aquaculture	100	03
		VIII-D	2. Aquaculture Management	100	03
			3. Postharvest Technology	100	03
			Practical – VIII: 1	50	02
			Practical – VIII: 2	50	02
			Project Work	50	02
			Cluster Electives – VIII-C :		
		Cluster	Sericulture		
			1. Gen. Sericulture,	100	03

	VIII-C**	Mulberry cultivation and		
		Management		
		2. Biology of Mulberry	100	03
		Silkworm and Silkworm		
		rearing Technology	100	03
		3. Silk Technology, Silk		
		Marketing and Extension		
		Practical – VIII: 1	50	02
		Practical – VIII: 2	50	02
		Project Work	50	02

9. vil 25 10 PRINCIPAL 5 Dr. V.S. Krishna Govt. Degree College (A) VISAKHAPATNAM

				p,	_010)			
Year	Seme- ster	Paper	Subject	Hrs.	Credits	IA	EA	Total
1	I	Ι	Differential Equations & Differential Equations Problem Solving Sessions	6	5	25	75	100
	П	Π	Solid Geometry & Solid Geometry Problem Solving Sessions	6	5	25	75	100
2	III	III	Abstract Algebra & Abstract Algebra Problem Solving Sessions	6	5	25	75	100
	IV	IV	Real Analysis & Real Analysis Problem Solving Sessions	6	5	25	75	100
3	V	V	Ring Theory & Vector Calculus & Ring Theory & Vector Calculus Problem Solving Sessions	5	5	25	75	100
		VI	Linear Algebra & Linear Algebra Problem Solving Sessions	5	5	25	75	100
	VI	VII	Electives: (any one) VII-(A) Laplace Transforms VII-(B) Numerical Analysis VII-(C) Number Theory & Elective Problem Solving Sessions	5	5	25	75	100
			Cluster Electives: VIII-A-1: Integral Transforms	5	5	25	75	100
VIII			VIII-A-2: Advanced Numerical Analysis	5	5	25	75	100
		VIII	vIII-A-3. Project work or VIII-B-1: Principles of Mechanics VIII-B-2: Fluid Mechanics VIII-B-3: Project work	5	5	25	75	100
			or VIII-C-1: Graph Theory VIII-C-2: Applied Graph Theory VIII-C-3: Project work					

#### CBCS B.A./B.Sc. **Mathematics** Course Structure w.e.f. 2015-16 (Revised in April, 2016)

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#### 8<sup>th</sup> ACADEMIC COUNCIL

The Eighth Academic council meeting of Dr.V.S.Krishna Government Degree College (Autonomous) for all the programmes is held on 28-10-2022 at 3:00 PM at IQAC conference hall.

#### Moving resolutions for the approval of all the B.A,B.COM, B.SC, Major Subject Programmes ( B.A. Economics, B.Sc Physics & B.Sc. Chemistry), B.Voc and **BBA Logistics programmes**

#### Item-1: Welcome Address

I, Dr.I.Vijaya Babu, Principal, Dr V.S Krishna Government Degree College (A), and Chairman of Academic Council takes pleasure to welcome the honorable University nominees and other members to this 8th Academic Council meeting of Dr.V.S.Krishna Govt. Degree College(A), Visakhapatnam. It is a matter of recognition by the UGC that ours is the first Govt. College to have been given the status of Autonomy in the entire north costal Andhra Pradesh. This college was reaccredited by NAAC with "A" grade at 3.11 CGPA on 4 point scale. In 2018-19 UGC expert committee visited our college and granted autonomy (2<sup>nd</sup> cycle) for another period of 6 years (2017-2023). This College secured 80th rank in 2017, 162nd rank in 2018,111th rank in 2019 and 164th rank in 2020 in NIRF rankings at All India level.

1. Board of Studies meetings in various courses were conducted in the month of October 2022 with revised curricular framework and updated syllabus of UG Programmes. Approval of curriculum for sem-1,2,3,4,5&6 was taken for 2022-23 admitted batch. Approval of curriculum for Sem-3,4,5&6 was taken for 2021-22 admitted batch. Ratification was done for Skill Enhancement Courses(SECs) for 2020-21 admitted batch and semester 1 & 2 curriculum

for 2021-22 admitted batch.

- 2. Life Skill Courses: There will be 4 Life Skill Courses will be offered with 2 hours of teaching per week, 02 credits, 50 maximum marks and only external assessment. 10 courses are designed out of which the course in 'Environmental Education' is mandatory and in case of other LSCs, students can opt one out of three courses.
- 3. **Skill Development Courses:** A new set of 4 Skill Development Courses will be offered with 2 hours of teaching per week, 02 credits, 50 maximum marks and only external assessment. These courses are offered separately in Arts, Commerce and Science streams. A wider choice is given to students as they can choose one course from a total of six courses (two from each stream).
- 4. Core Courses: Three core courses of Domain subjects will be in the first three semesters, and the fourth and fifth courses will be in the fourth semester. Two domain SECs will be in the fifth semester. There will be uniformly five Core Courses in each Domain Subject in BA and BSc, and 12 in BCom, Major subject programmes(BA Economics, B.Sc Physics & B.Sc Chemistry), B.Voc and BBA.
- Skill Enhancement Courses: Two Skill Enhancement Courses will be offered for each domain subject, in Semester V. The two Skill Enhancement Courses of each domain subject will be linked for a wider basic and practical experience to students.
- 6. Table-1: Main Features of the Courses in the Revised Curricular Framework.

Subject/Course	Hours / Week Theory	Hours / Week Practicals	Total Hours	Credits	Max Marks Internal Assessment	Max Marks University Exam	Total
Life Skills Course	02	-	02	02	-0-	50	50
Skill Development Course	02	-	02	02	-0-	50	50
Language Subject	04	-	04	03	25	75	100

Domain	05	-	05	04	25	75	100
Arts/Commerce							
Subject							
Domain	04	02	05	05	25	75	100
Science Subject				(4+1)			
Mathematics	06	-	06	05	25	75	100

7. The four courses of LSCs, SDCs and three courses of Languages (as they exist now) will be offered in the first three semesters as shown in the table below. The detailed structure is shown in Tabel-2 below.

Courses of	Sem-I	Sem-II	Sem-III	Sem-IV	Sem-V
Life Skills	1 (02)	1 (02)	2 (04)		
Skill Development	1 (02)	2 (04)	1 (02)		
Language – 1	C-1 (04)	C-2 (04)	C-3 (04)		
Language – 2	C-1 (04)	C-2 (04)	C-3 (04)		
Domain Sub -1	C-1 (06)	C-2 (06)	C-3 (06)	C-4 (06)	SEC-1(06)
				C-5 (06)	SEC-2 (06)
Domain Sub -2	C-1 (06)	C-2 (06)	C-3 (06)	C-4 (06) C-5 (06)	SEC-1(06) SEC-2 (06)
Domain Sub -3	C-1 (06)	C-2 (06)	C-3 (06)	C-4 (06) C-5 (06)	SEC-1(06) SEC-2 (06)
Total Hours/Week	30	32	32	36	36

\* Figures in parenthesis are hours per week of Core Courses of Science. In respect of Arts and Commerce Courses, the hours per week for Core Courses will be 5.

\*\* SEC1 and SEC-2 in Sem-V are C-6 and C-7 respectively.

- 8. Co-curricular activities play an important role in promoting experiential selflearning and field-based learning among students, especially in learning higher order skills. The measurable pedagogical activities can be a small part of internal assessment.
- The Community Service Project (CSP) will be done after 2<sup>nd</sup> semester and Industrial training after 4<sup>th</sup> semester for a period of 2 months each to make the students employable.

- **10.** During the entire 6<sup>th</sup> Semester, the student shall undergo Apprenticeship / On the Job Training. This is to ensure that the students develop hands on technical skills which will be of great help in facing the world of work.
- Item-2: Introduction of all the Heads of the Department to the University nominees.
- Item-3: Moving resolutions for the approval of the New Syllabus along with allocation of credits for B.A., B.Sc., & B.Com. Major subject programmes (B.A. Economics, B.Sc. Physics & B.Sc. Chemistry), B.voc, BBA Logistics under Choice Based credit System from 2022-23 academic year onwards of I to IV Semesters.

The Principal places before the Academic Council, the Syllabi of all the subjects of B.A, B.Com and B.Sc. as recommended by the respective Boards of Studies of different subjects held in the College on different dates in the month of October 2022. He also places before the Academic Council the Minutes of BOS Meetings of all the subjects with revisions made by the Subject experts for their perusal and requests them to approval after incorporating their suggestions and modifications, if any.

- 3.1: Dr. V.Sudheer, Chairman, Board of Studies of English will move the resolution for consideration and approval of the syllabus of I, II and III Semesters for B.A, B.Com, B.Sc. Degree Major subject programmes (B.A. Economics, B.Sc. Physics & B.Sc. Chemistry), B.Voc, BBA Logistics as recommended by the Board of Studies meeting, for the students of admitted batch of 2022-23 academic year onwards.
- 3.2: Dr. V.Sudheer, Chairman, Board of Studies of English, will move the resolution for consideration and approval of the syllabus for Special English of the syllabus for English of I and II Semesters (I Year), III and IV Semesters (II Year) and V/VI semesters(III year) for B.A programmes as recommended by the Board of Studies meeting, for the students of admitted batch of 2022-23 academic year onwards.
- 3.3: Dr. R.Kusuma Kumari, Chairman, Board of Studies of Telugu, will move the resolution for consideration and approval of the syllabus for Telugu of I, II and III Semesters for B.A, B.Com, and B.Sc Degree Courses as recommended by the Board of Studies meeting, for the students of admitted batch of 2022-23 academic year onwards.

- 3.4: Dr.S. Suryavathi, Chairman, Board of Studies of Hindi, will move the resolution for consideration and approval of the syllabus for Hindi of I, II and III Semesters for B.A, B.Com, and B.Sc Degree Courses as recommended by the Board of Studies meeting, for the students of admitted batch of 2022-23 academic year onwards.
- 3.5: Dr.P.UmamaheswaraRao, Chairman, Board of Studies of Sanskrit, will move the resolution for consideration and approval of the syllabus for Sanskrit of I, II and III Semesters for B.A, B.Com, and B.Sc Degree Courses as recommended by the Board of Studies meeting, for the students of admitted batch of 2022-23 academic year onwards.
- 3.6: Dr.A.L.Rupavani, Chairman, Board of Studies of History, will move the resolution for consideration and approval of the syllabus for History of I and II Semesters (I Year), III and IV Semesters (II Year) and V/VI semesters(III year) for B.A Degree Courses as recommended by the Board of Studies meeting, for the students of admitted batch of 2022-23 academic year onwards.
- 3.7: Smt.Ch.Lakshmi, Chairman, Board of Studies of Economics(in combinations) and Economics (major) will move the resolution for consideration and approval of the syllabus for Economics of of I and II Semesters (I Year), III and IV Semesters (II Year) and V/VI semesters(III year) for B.A Degree Courses as recommended by the Board of Studies, for the students of admitted batch of 2022-23.
  - 3.8: Smt.P.Dhana Lakshmi, Chairman, Board of Studies of Political Science, will move the resolution for consideration and approval of the syllabus for Political Science of I and II Semesters (I Year), III and IV Semesters (II Year) and V/VI semesters(III year) for B.A Degree Courses as recommended by the Board of Studies, for the students of admitted batch of 2022-23 academic year onwards.
  - 3.9: Dr.Ch.Vishnu Murthy, Chairman, Board of Studies of Commerce, will move the resolution for consideration and approval of the syllabus for B.Com general, Accounting & taxation and Computer applications of I and II Semesters (I Year), III and IV Semesters (II Year) and V/VI semesters(III year) for B.Com Degree Course as recommended by the

Board of Studies meeting, for the students of admitted batch of 2022-23 academic year onwards.

- 3.10: Dr.K.Ravi Babu, Chairman, Board of Studies of Mathematics, will move the resolution for consideration and approval of the syllabus for Mathematics of of I and II Semesters (I Year), III and IV Semesters (II Year) and V/VI semesters(III year) for B.Sc. Degree Courses as recommended by the Board of Studies, for the students of admitted batch of 2022-23 academic year onwards.
- 3.12: Dr.C.V.S.S.Sastry, Chairperson, Board of Studies of Physics, will move the resolution for consideration and approval of the syllabus for Physics of I and II Semesters (I Year), III and IV Semesters (II Year) and V/VI semesters(III year) for B.Sc. in combination and Physics(Major) Degree Courses as recommended by the Board of Studies, for the students of admitted batch of 2022-23 academic year onwards.
- 3.13: Dr.A.V.Ramesh, Chairman, Board of Studies of Chemistry, will move the resolution for consideration and approval of the syllabus for Chemistry of I and II Semesters (I Year), III and IV Semesters (II Year) and V/VI semesters(III year) for B.Sc. in combination and Chemistry (Major) Degree Courses as recommended by the Board of Studies, for the students of admitted batch of 2022-23 academic year onwards.
- 3.14: Dr.P.Sreevani, Chairperson, Board of Studies of Botany, will move the resolution for consideration and approval of the syllabus for Botany of I and II Semesters, (I Year), III and IV Semesters (II Year) for B.Sc. Degree Courses as recommended by the Board of Studies, for the students of admitted batch of 2022-23 academic year onwards.
- 3.15: Dr. P.Jaya, Chairperson, Board of Studies of Zoology, will move the resolution for consideration and approval of the syllabus for Zoology of I and II Semesters, (I Year), III and IV Semesters (II Year)) for B.Sc. Degree Courses as recommended by the Board of Studies, for the students of admitted batch of 2022-23 academic year onwards.

## Item-4: Moving resolutions for the approval and ratification of

#### Syllabi for Restructured Courses.

The Principal places before the Academic Council for the approval of syllabus of Four restructured courses offered by this college to the B.Sc, Students. These are **Computer Science, Biochemistry, Microbiology, Biotechnology, Industrial chemistry,** and **Aquaculture** with the following combination.

- 4.1: Sri D.Raghava Swamy, Chairperson, Board of Studies in Computer Science will move the resolution for consideration and approval of the syllabus for Computer Science Restructured Course offered to the 4 semesters of B.Sc. Degree Course as recommended by the Board of Studies for the ' students of admitted batch of 2022-23.
- 4.2: Dr.K.Ravi Babu, Chairman, Board of Studies of Statistics, will move the resolution for consideration and approval of the syllabus for Statistics of of I and II Semesters (I Year), III and IV Semesters (II Year) and V/VI semesters(III year) for B.Sc. Degree Courses as recommended by the Board of Studies, for the students of admitted batch of 2022-23 academic year onwards.
- 4.3: Dr.K.Rekha, Chairperson, Board of Studies in Biotechnology will move the resolution for consideration and approval of the syllabus for Biotechnology Restructured Course offered to the 4 semesters of B.Sc. Degree Course as recommended by the Board of Studies, for the students of admitted batch of 2022-23.
- 4.4: Dr.Ch.Lalitha, Chairperson, Board of Studies in Microbiology will move the resolution for consideration and approval of the syllabus for Microbiology Restructured Course offered to the 4 semesters of B.Sc. Degree Course as recommended by the Board of Studies, for the students of admitted batch of 2022-23.
- 4.5: Dr.Ch.Lalitha, Chairperson, Board of Studies in Biochemistry will move the resolution for consideration and approval of the syllabus for Biochemistry Restructured Course offered to the 4 semesters of B.Sc. Degree Course as recommended by the Board of Studies, for the students of admitted batch of 2022-23.
- 4.6: Dr.A.V.Ramesh, Chairperson, Board of Studies in Industrial Chemistry will move the resolution for consideration and approval of the syllabus for Industrial Chemistry Restructured Course offered to the 4 semesters of B.Sc.

Degree Course as recommended by the Board of Studies, for the students of admitted batch of 2022-23.

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4.7: Dr.P.Jaya, Chairperson, Board of Studies in B.Voc aquaculture will move the resolution for consideration and approval of the syllabus for aquaculture (UGC NSQF Restructured vocational Course )offered to the 4 semesters of B.Sc. Degree Course as recommended by the Board of Studies, for the students of admitted batch of 2022-23.

### <u>Item-5:</u> Moving resolutions for the approval of Syllabi for Life skill courses and Skill Development courses

The Principal places before the Academic Council, the Syllabi of the following Common Subjects of B.A, B.Com and B.Sc. as recommended by the respective Boards of Studies held in the College on different dates in the month of January 2021. He also places before the Academic Council the Minutes of BOS Meetings of all the subjects with revisions made by the Subject experts for their perusal and requested them to ratify after incorporating their suggestions and modifications, if any.

Name of the course	Chairperson
Personality Development and	Dr.V.Sudheer
Leadership	
Human Values and Professional Ethics	Dr.A.L.Rupavani
Performing Arts	Dr.R.Kusuma Kumari
Entrepreneurship	Dr.Ch.Vishnu Murthy
Environmental education	Dr.P.Sreevani
Computer Applications	Sri.D.Raghava Swamy
Information and Communication	Sri.D.Raghava Swamy
Technology	J and S and the second s
Indian Culture and Science	Dr.A.L.Rupavani
Elementary statistics	Dr.K.Ravi Babu
Analytical skills	Dr.K.Ravi Babu
	Name of the coursePersonalityDevelopmentandLeadershipIteadershipHuman Values and Professional EthicsPerforming ArtsEntrepreneurshipEnvironmental educationComputer ApplicationsInformationandCommunicationTechnologyIndian Culture and ScienceElementary statisticsAnalytical skills

#### Life skill courses

## Skill development courses

S.NO.	Name of the course	Chairperson
1	Business communication	Dr.Ch.Vishnu Murthy
2	Journalistic Reporting	Dr.V.Sudheer
3	Disaster Management	Dr.V.Sudheer
4	Secretaryship	Dr.Ch.Vishnu Murthy
5	Insurance promotion	Dr.Ch.Vishnu Murthy
6	Agricultural marketing	Dr.Ch.Vishnu Murthy
7	Advertising	Dr.Ch.Vishnu Murthy
8	Logistics & supply chain	Dr.Ch.Vishnu Murthy
9	Online Business	Dr.Ch.Vishnu Murthy
10	Retailing	Dr.Ch.Vishnu Murthy
11	Plant Nursery	Dr.P.Sreevani
12	Fruit & vegetable preservation	Dr.P.Sreevani
13	Tourism Guidance	Dr.A.L.Rupavani
14	Public Relations	Smt.P.Dhana Lakshmi
15	Social work methods	Smt.P.Dhana Lakshmi
16	Survey and Reporting	Smt.Ch.Lakshmi
17	Financial markets	Smt.Ch.Lakshmi
18	Food Adulteration	Dr.A.V.Ramesh
19	Environment audit	Dr.A.V.Ramesh
20	Electrical Appliances	Dr.C.V.S.S.Sastry
21	Solar Energy	Dr.C.V.S.S.Sastry
22	Dairy techniques	Dr.P.Jaya
23	Poultry farming	Dr.P.Jaya

### LIST OF LIFE SKILL COURSES

Semester	No. of Courses	Choices	Preferred Teaching Dept.	
1 01		Computer Applications	Computers	
		Human Values and Professional Ethics	English/Telugu/Any Dept	
		Entrepreneurship	Commerce	
II 01		Information and Communication Technology	Computers	
		Indian Culture and Science	History/Telugu	
		Elementary Statistics	Statistics/Maths/Economics/ Commerce	
111	02	Health and Hygiene	Zoology/Botany	
		Personality Development and Leadership	English/ Any Dept	
		Analytical Skills	Maths/Statistics	
		Environmental Education	Botany/Zoology/Environmental Sciences/Any Dept.	

List of Skill Development Courses along with their Semester-wise allotment with choices. Preferred Teaching Departments are given in the parenthesis.

Ser	n No. of Courses	Stream – A (Arts)	Stream – B (Commerce)	Stream – C (Science)
I	01	Tourism Guidance (History)	Secretaryship	Electrical Appliances (Physics)
		Public Relations (Pol Sci /English)	Insurance Promotion	Plant Nursery (Botany)
11	02	Journalistic Reporting (English)	Agricultural Marketing	Solar Energy (Physics)
		Survey & Reporting (Economics/History)	Business Communication (English)	Fruit & Vegetable Preservation (Botany)
		Social Work Methods (Pol Sci)	Advertising	Dairy Techniques (Zoology)
		Performing Arts (Telugu)	Logistics & Supply Chain	Food Adulteration (Chemistry)
11	01	Financial Markets (Economics)	Online Business	Environment Audit (Chemistry)
		Disaster Management (English /Telugu)	Retailing	Poultry Farming (Zoology)

#### Item 6: Examination Reforms based on NEP-2020

The Principal places before the Academic Council the examination reforms of the Three Year (Six Semester) Degree Examinations implemented in this college following the existing practices of Choice Based Credit System informed by the UGC. Total number of credits for B.A & B.com are 146 and for B.Sc 166 for the programs offered from 2020-21 onwards.

- 6.1: Dr.C.V.S.S.Sastry, Controller of Examinations will place before the Academic Council the credits, continuous internal assessment system and external evaluation implemented in this college from 2020-21 admitted batch. The system is designed on in tune with the new education Policy – 2020. In the internal assessment system we are following the online examination as well as offline examination methods.
- Internal evaluation system carries 25% weightage whereas the external evaluation carries the remaining 75% weightage.

S.NO.	Type of assessment	Marks
1	Assignments	10
2	Project work /seminar/ group discussions/ role play / quiz / presentations	10
3	Attendance, clean & green, NCC, NSS	10
4	Mid term examinations	20
	Total	50

# CIA has been divided into four categories of inventory tasks and activities as detailed below:

## Bloom's Taxonomy is followed for the evaluation system especially in design of question papers.

The questions in the internal assessment will range from the lowest level of the learning to the highest i.e., from the Lower Order Thinking Skills (LOTS) to the Higher Order Thinking Skills (HOTS).

REMEMBERING  $\rightarrow$  UNDERSTANDING  $\rightarrow$  CREATING  $\rightarrow$  APPLYING  $\rightarrow$  EVALUATING  $\rightarrow$  ANALYZING

Item 7: Introduction of Value added courses(Add-on courses) and career Oriented programmes.

The Principal places before the Academic Council that the college has been offering 22 job-oriented value-added courses from the 2022-23 academic year onwards.

7.1: Dr.A.L.Rupavani, Coordinator for 22 value added courses will move the resolutions for implementation of Career-oriented add-on courses as in the list during I and II Year students from 2022-23

S.No.	Name of the Add on Course	Name of the coordinator					
1	English shill s						
1	English skills for Employment	Dr.V.Sudheer					
2	Food, Nutrition and Health Education	Dr.Ch.Lalitha					
3	Clinical Lab Technology	Dr.A.V.Ramesh					
4	Mushroom Culture	Dr.K.Rekha					
5	Horticulture techniques	Dr.P.Sreevani					
6	Certificate Course in Bhasha Swaroopa swabhavalu	Dr.R.Kusuma Kumari					
7	Certificate Course in Music	Dr.Y.Shanthi Prabha					
8	Certificate Course in Self Defense for Girls (Martial Arts)	Dr.P.R.Vani					
9	Certificate course in Yoga and meditation	Dr.A.V.Ramesh					
10	Digital Marketing	Dr.Ch.Vishnu Murthy					
11	Tally GRP9 with GST	Dr.Ch.Vishnu Murthy					
12	Advertising & Marketing management	Dr.Ch.Vishnu Murthy					
13	Ginancial Management	Dr.Ch.Vishnu Murthy					
14	Indian Public Finance	Smt.Ch.Lakshmi					
15	Basic statistics for Data Analysis	Dr.K.Ravi Babu					
16	Classical Dance	Dr.S.Suryavathi					

17	Indian National Movement	
		Dr.A.L.Rupavani
18	Ornamental Fisheries	
		Dr.P.Jaya
19	Fundamentals of Nanotast	
12	of Hanolechnology	Dr.A.V.Ramesh
20	Constitution of India	
20	of mala	Smt.P.Dhanalakshmi
21	Physics for novel dia	
21	therapeutics	Dr.C.V.S.S.Sastry
- 00	Arta & Crafta	
22	Aits & Claits	Dr.Ch.Lalitha

Item 8: Adapting of SWAYAM (Study Webs of Active Learning for Young Aspiring Minds) Courses Content as for Certificate/Addon/Value Added Courses as per the requirement

# Heads of the Departments and Chairpersons of Boards of Studies

<b>S</b> 1.	Subject	Name of the Locture	<b>Q</b> :
No.		ol	Signature
-	Fnglish	Charge	
1.	Eligiish	Dr.V.Sudheer	g fort
2.	Telugu	Dr.R.Kusuma Kumari	
3.	Hindi	Dr.S.Suryavathi	andus .
4.	Sanskrit	Dr.P.Uma Maheswara Rao	120
5.	History	Dr.A.LRupavani	A-9-9-P-
6.	Economics	Smt.Ch.Lakshmi	ch i and in
7.	Political Science	Smt.P.Dhana Lakshmi	P. Marcul:
8.	Commerce	Dr.Ch.Vishnu Murthy	G. Renno
9.	Mathematics	Dr.K.Ravi Babu	Q. Jan 11
10.	Physics	Dr.C.V.S.S.Sastry	B. Maperiora la Naco
11.	Chemistry	Dr.A.V.Ramesh	A.V. Pamer
12.	Industrial Chemistry	Dr.A.V.Ramesh	A. v. Ramert
13.	Computer Science	Sri D.Raghava Swamy	2 6
14.	Botany	Dr.P.Sreevani	Lot
15.	Zoology	Dr.P.Jaya	Au
16.	Microbiology	Dr.Ch.Lalitha	Japille
17.	Biochemistry	Dr.Ch.Lalitha	Jabiline
18.	Biotechnology	Dr.K.Rekha	Kekha
19.	Add on Courses	Dr.A.L. Rupavani	A.6.9p .

## Members Approval:

## I.University nominees:

S.NO.	Name and designation of the members	Signature
1.	<b>Prof.K.Venkata Rao,</b> Dept. of Computer Science & System Engg, A.U.College of Engineering, Visakhapatnam.	K.W.to
2.	<b>Prof. P.Venkateswarulu,</b> Department of Commerce, A.U. College of Arts & Commerce Visakhapatnam.	Pello
3.	<b>Dr.V.Siddaiah,</b> Dept. of Chemistry, College of Science & Technology, Andhra University Visakhapatnam.	V. Sdain

## II. Experts/academicians from outside the College :

S.NO.	Name and designation of the members	Signature
4.	Prof.P.K.Ratna Kumar ,	
	Dept. of Botany ,	, 1
	Andhra University, Visakhapatnam	
	<ul> <li>Member from the field of Education</li> </ul>	
5.	Dr.N.Ram Babu, Lead auditor and Technical	
	auditor to National Accreditation Board for	Aur
	Calibration and Testing Services(NABL),	, v
	Quality Council of India, Ministry of Commerce	Mu
	- Member from the field of Industry	
6.	Dr.B.Madhusudhana Rao, Principal	m
•••	Scientist, CIFT, Visakhapatnam	
	- Member from the field of Science	
7.	Dr.P.Venkata Ramana, Associate Professor,	P. Danner
	Andhra Medical College, Visakhapatnam	f ver
	Member from the field of Medicine	
	- Weinber nem men	

## III. Sr. Lecturers as Academic Council Members :

S NO	Name and designation and	
5.110.	hame and designation of the members	Signature
8.	DT-K- Rave Baby Lectures in Man	_
	Dr.V.S.Krishna Govt. Degree	Lag.
	College, Visakhapatnam	C. Curr
9.	<b>Dr.A.L.Rupavani,</b> Lecturer in History, Dr.V.S.Krishna Govt. Degree College, Visakhapatnam	Al. Jp
10.	<b>Dr.Ch.Vishnu Murthy</b> , Lecturer in Commerce, Dr.V.S.Krishna Govt. Degree College, Visakhapatnam	Giero
11.	<b>Dr.P.Jaya</b> , Lecturer in Zoology Dr.V.S.Krishna Govt. Degree College, Visakhapatnam	Au

12. Dr.Ch.Lalitha, Lecturer in Microbiology Dr.V.S.Krishna Govt. Degree College, Visakhapatnam & Coordinator IQAC. Signature:

13. Dr.P.Latha, Reader in Physics, Dr.V.S.Krishna Govt. Degree College, Visakhapatnam & Member Secretary, Academic Council. Signature : for for 28 10 200

14. Dr.I.Vijaya Babu, Principal, Dr.V.S.Krishna Govt. Degree College, Visakhapatnam & Chairman, Academic Council.

Signature : g. with 2810/202



## **Dr.V.S.KRISHNA GOVT. DEGREE COLLEGE**

(AUTONOMOUS)

NODAL RESOURCE CENTRE & AU CENTRE FOR RESEARCH Maddilapalem, Visakhapatnam - 530013, Andhra Pradesh. 0891-2553262, https://www.drvskrishnagdc.edu.in



I	ANNEXURE - I	III CBC	CS CUR	RICUL	AR FRA	AMEW	ORK (2	020 - 21	ONWA	ARDS) -	<b>B.Com</b>	., BBA,	BCA etc.		
Cubicat		SE	MI	SE	M II	SEN	A III	SEN	A IV	SE	M V	SE	EM VI	1	
Subject	.5	Hrs/W	Credits	Hrs/W	Credits	Hrs/W	Credits	Hrs/W	Credits	Hrs/W	Credits	Hrs/W	Credits	1	
Languag	es														
English		4	3	4	3	4	3								
Language (H/T/S)		4	3	4	3	4	3								
Life Skill Courses		2	2	2	2	2+2	2+2								
Skill Development Cours	es	2	2	2+2	2+2	2	2								
Core Cours	es***														
Core		5	4	5	4	5	4	5	4						
Core		5	4	5	4	5	4	5	4						
Core		5	4	5	4	5	4	5	4					FIRST	and SECOND
Core Core Core								5	4				THIRD PHASE of APPREN APPRENTICESHIP		S(2  spalls)  of
								5	4			THIRD			S (2 Spens) of
								5	4			APPREN			n 1st and 2nd
										5	4	- <mark>Entire</mark>	5th / 6th	voar and	botween 2nd
										5	4	Sen	nester	and 3	d year (two
(Domain Related)	Skill									5	4			summe	var year (two
Enhancement Cours	ses**** (SECs)									5	4			Summe	a vacationsj.
										5	4				
										5	4				
Hrs/W (Academic Cred	lits)	27	22	29	24	29	24	30	24	30	24	0	12	4	4
Project Work															
Extension Activities															
NCC/NSS/Sports/Extra (	Curricular								2						
Yoga							1		1						
Extra Credits															
Hrs/W (Total Credits)		27	22	29	24	29	25	30	27	30	24	0	12	4	4

J. Witzs PRINCIPAL 5. Dr. V.S. Krishna Govt. Degree College (A) VISAKHAPATNAM



	ANNEXURE - I	CBCS	CURRI	CULAF	R FRAM	IEWOF	RK (202	0 - 21 O	NWAR	<b>DS) - B</b>	ACHE	LOR O	F ARTS	5		
<b>6</b> 11	hiosta	SE	MI	SE	MII	SEN	4 III	SEI	ИIV	SE	MV	SE	M VI			
Su	bjects	Hrs/W	Credits	Hrs/W	Credits	Hrs/W	Credits	Hrs/W	Credits	Hrs/W	Credits	Hrs/W	Credits			
Lan	iguages															
English		4	3	4	3	4	3									
Language (H/T/S)		4	3	4	3	4	3									
Life Skill Courses		2	2	2	2	2+2	2+2									
Skill Development	Courses	2	2	2+2	2+2	2	2									
Core Papers																
Major 1	Core 1,2,3,& 4	5	4	5	4	5	4	5	4							
Major 2	Core 1,2,3,& 4	5	4	5	4	5	4	5	4							
Major 3	Core 1,2,3,& 4	5	4	5	4	5	4	5	4					FIDCT	and SECOND	
Major 1	Core -5							5	4					FIKSI	and SECOND	
Major 2	Core -5							5	4			THIRD	<b>PHASE of</b>	PHASE	ADDDDDDDDDDDDDDD	
Maior 1	Skill Enhancement Core Courses 6 & 7									5	4	APPREN	TICESHIP	betwee	en 1st and 2nd	
										5	4	Entire	5th / 6th	year an	d between 2nd	
Major 2	Skill Enhancement									5	4	Semester	and 3	rd year (two		
	Core Courses 6 & 7									5	4			summ	er vacations).	
Major 2	Skill Enhancement									5	4					
	Core Courses 6 & 7									5	4					
Hrs/W (Academic	Credits)	27	22	29	24	29	24	30	24	30	24	0	12	4	4	
Project Work																
Extension Activitie	es (Non Academic Cre	dits)														
NCC/NSS/Sports/E	xtra Curricular								2							
Yoga							1		1							
Extra Credits																
Hrs/W (Total Cred	lits)	27	22	29	24	29	25	30	27	30	24	0	12	4	4	

g. vol 25 PRINCIPAL Dr. V.S. Krishna Govt. Degree College (A) VISAKHAPATNAM



	ANNEXURE - II	<b>CBCS</b> (	CURRI	CULAR	FRAM	EWOR	K (2020	) - 21 O	NWARI	DS) - <mark>B</mark> A	CHEL	OR OF	<b>SCIENC</b>	ES	
<b>6</b> -1	le i e e te	SE	MI	SE	MII	SEN	<b>4 III</b>	SEN	A IV	SE	MV	SE	M VI		
Su	ibjects	Hrs/W	Credits	Hrs/W	Credits	Hrs/W	Credits	Hrs/W	Credits	Hrs/W	Credits	Hrs/W	Credits		
Languages															
English		4	3	4	3	4	3								
Language (H/T/S)		4	3	4	3	4	3								
Life Skill Courses		2	2	2	2	2+2	2+2								
Skill Development (	Courses	2	2	2+2	2+2	2	2								
Major 1	Core 1,2,3,& 4	4+2	4 + 1	4+2	4 + 1	4+2	4 + 1	4+2	4 + 1						
Major 2	Core 1,2,3,& 4	4+2	4 + 1	4+2	4 + 1	4+2	4 + 1	4+2	4 + 1						
Major 3	Core 1,2,3,& 4	4+2	4 + 1	4+2	4 + 1	4+2	4 + 1	4+2	4 + 1					FIDET	and SECOND
Major 1	Core -5							4+2	4 + 1					FIRST	and SECOND $(2 - 1) = 1$
Major 2	Core -5							4+2	4 + 1			THIRD	PHASE of	PHASE	S (2 spells) of
Major 3	Core -5							4+2	4 + 1			APPREN	TICESHIP	APPR	ENTICESHIP
Maian 1	Skill Enhancement									4+2	4 + 1	Entire	5th / 6th	betwee	n 1st and 2nd
Major I	Courses (6 & 7)									4+2	4 + 1	Sem	nester	year and	i between 2nd
Majan D	Skill Enhancement									4+2	4 + 1			and 3	ra year (two
Major Z	Courses (6 & 7)									4+2	4 + 1			summe	er vacations).
Maine 2	Skill Enhancement									4+2	4 + 1				
Major 3	Courses (6 & 7)									4+2	4 + 1				
Hrs/W (Academic	Credits)	30	25	32	27	32	27	36	30	36	30		12	4	4
Project Work															
Extension Activities	s (Non														
NCC/NSS/Sports/E	xtra Curricular								2						
Yoga							1		1						
Extra Credits															
Hrs/W (Total Cred	dits)	30	25	32	27	32	28	36	33	36	30		12	4	4



## ANDHRA UNIVERSITY DEPARTMENT OF ENGLISH



PROGRAM : M.A ENGLISH REGULATION AND SYLLABUS EFFECTIVE FROM 2021-2022 BATCH



#### ANDHRA UNIVERSITY M. A. ENGLISH

#### POST GRADUATION DEGREE PROGRAMME

#### C B C S P A T T E R N

#### (With effect from 2021-2022)

#### The course of Study and Scheme of Examinations

	CORE PAPERS	INTERNAL	EXTERNAL	TOTAL	HRS	CREDIT							
1	BRITISH POETRY – I	30	70	100	6	4							
2	BRITISH DRAMA – I	30	70	100	6	4							
3	BRITISH PROSE & FICTION – I	30	70	100	6	4							
	ELECTIVE PAPERS												
1	CULTURAL STUDIES – I	30	70	100	6	4							
2	ENGLISH LINGUISTICS	30	70	100	6	4							
3	FUNCTIONAL ENGLISH	30	70	100	6	4							
	SEMESTER – II												
	CORE PAPERS	INTERNAL	EXTERNAL	TOTAL	HRS	CREDIT							
1	BRITISH POETRY – II	30	70	100	6	4							
2	BRITISH DRAMA – II	30	70	100	6	4							
3	BRITISH PROSE & FICTION – II	30	70	100	6	4							
	ELECTIVE PAPERS												
1	CULTURAL STUDIES – II	30	70	100	6	4							
2	HISTORY AND GROWTH OF	30	70	100	6	4							
	ENGLISH LANGUAGE												

#### SEMESTER – I

#### **SEMESTER – III**

	CORE PAPERS	INTERNAL	EXTERNAL	TOTAL	HRS	CREDIT
1	LITERARY CRITICISM: THEORY AND PRACTICE – I	30	70	100	6	4
2	AMERICAN LITERATURE – I	30	70	100	6	4
3	INDIAN ENGLISH LITERATURE – I	30	70	100	6	4

	ELECTIVE PAPERS					
1	NEW LITERATURES (OTHER THAN INDIAN)	30	70	100	6	4
2	ENGLISH LANGUAGE TEACHING – I	30	70	100	6	4
3	COLONIAL ENCOUNTERS – I	30	70	100	6	4
	IPR					2
	MOOCS					2

SEMESTER – IV

	CORE PAPERS	INTERNAL	EXTERNAL	TOTAL	HRS	CREDIT
1	LITERARY CRITICISM: THEORY AND	30	70	100	6	4
	PRACTICE – II					
2	AMERICAN LITERATURE – II	30	70	100	6	4
3	INDIAN ENGLISH LITERATURE – II	30	70	100	6	4
	ELECTIVE PAPERS					
1	CLASSICS IN TRANSLATION	30	70	100	6	4
2	ENGLISH LANGUAGE TEACHING – II	30	70	100	6	4
3	COLONIAL ENCOUNTERS – II	30	70	100	6	4
	PROJECT WORK			100		4
	MOOCS					2

\*NOTE: The Student is allowed to choose two elective courses out of available three Elective courses for his study.

#### **DEPARTMENT OF ENGLISH**

#### **OBJECTIVES OF THE PROGRAM:**

- 1. To introduce students who have joined MA English literature to the structure and dynamics of English literature from the period of its inception to the present post modern stage.
- 2. To introduce the students to some of the great poets, dramatists, writers of English Literature.
- 3. To introduce the students to the beauties and subtleties of English Language as expressed by the poets of each age.
- 4. To conduct seminars and one day workshops for active participation and interaction of the students making it a participatory learning process.
- 5. To provide a consecutive understanding of the evolution and growth of English Literature and Language as both are interrelated.
- 6. To convey and train the students towards critical understanding by training them in critical analysis and modes of thinking.

#### PROGRAM OUTCOMES :

PO1: The students are thoroughly acquainted and familiar with broad framework of English Literature, with its growth and evaluation from Anglosaxon Period.

PO2: To know the most important and popular poets, dramatists and writers of the each age so as to identify their main contribution to literature.

PO3: To know the strength and merit of each writer of each age after studying the particular works prescribed in the syllabus.

PO4: To prepare the student for UGCNET exam based on the guidance given during their two study in M A English course.

#### PROGRAM SPECIFIC OUTCOMES:

PSO1: To generalize based on specific study so as to launch them into the their own studies.

PSO2: To have a clear consolidated understanding of the genres of English literature and their tenor and contribution.

PSO3: To internalize the subject in spite of its alien origin by a deep and system study for future employment as well as research purpose.

J. Vitzs PRINCIPAL Dr. V.S. Krishna Govt. Degree College (A) VISAKHAPATNAM

## ANDHRA UNIVERSITY DEPARTMENT OF COMMERCE AND MANAGEMENT STUDIES



## **Program - M.Com** Regulations and Syllabus Effective from 2020-2021 batch

	M.COM PROGRAM STRUCTURE					
Annexure-1	(UNDER DUAL SPECIALISATION)					
SEMESTER-I	wef from 2020-21 Admitted Batch	Intrl	Extrl	Total	Hrs/ Week	Crdits
OLMEOTEICI					Week	
Core Paper						
1	Management Theory & Practice	20	80	100	4	4
2	Business Environment (India & International)	20	80	100	4	4
3	Advanced Management Accounting	20	80	100	4	4
4	Business Economics	20	80	100	4	4
5	Business Communication	20	80	100	4	4
6	Soft Skills (Business & Spoken English)	20	80	100	4	4
SEMESTER-II						
Core Paper						
1	E- Business	20	80	100	4	4
2	Financial Management	20	80	100	4	4
3	Human Resource Management	20	80	100	4	4
4	Marketing Management	20	80	100	4	4
ELLECTIVE Choo	use any Two					
1	Quantitative Techniques for Business Decision	20	80	100	4	4
	Soft Skills (Personality Development & GD)	20	80	100	1	1
L		20	00	100		-
3	Entrepreneurship Development	20	80	100	4	4
4	Corporate Governance	20	80	100	4	4
SEMESTER-III						
Core Paper						
1	Insurance Products and Management	20	80	100	4	4
2	Intellectual Property Rights (IPR)					2
3	MOOCS					2
ELECTIVE: ACC	DUNTING Choose any Two	1	l			I
1	Corporate Accounting	20	80	100	4	4

2	International Accounting	20	80	100	4	4
3	Total Cost Management	20	80	100	4	4
4	Management and Cost Audit	20	80	100	4	4
ELECTIVE: FINA	NCE Choose any Two					
1	Strategic Financial Management	20	80	100	4	4
2	Financial Markets and Services	20	80	100	4	4
3	Management of Mutual Funds	20	80	100	4	4
4	Financing Foreign Trade	20	80	100	4	4
ELECTIVE: TAXA	TION Choose any Two		•			
1	Direct Taxes	20	80	100	4	4
2	Indirect Taxes	20	80	100	4	4
3	Customs Act	20	80	100	4	4
4	Public Finance	20	80	100	4	4
ELECTIVE: BAN	KING Choose any Two					
1	Advanced Banking	20	80	100	4	4
2	Bank Financial Management	20	80	100	4	4
3	NBFCs	20	80	100	4	4
4	Rural Banking	20	80	100	4	4

SEMESTER-IV						
Core Paper						
1	Computer Applications in Accounting	20	80	100	4	4
Audit Paper						
	Ethics and Moral Values					
ELECTIVE: ACCOUNT	NG Choose any Two					
1	Strategic Cost Management	20	80	100	4	4
2	Management Control Systems	20	80	100	4	4
3	Financial Statement Analysis	20	80	100	4	4
4	Accounting for Public Utilities	20	80	100	4	4
ELECTIVE: FINANCE (	Choose any Two					

	Security Analysis and Portfolio					_
1	management	20	80	100	4	4
2	Financial Derivatives	20	80	100	4	4
3	Treasury Management	20	80	100	4	4
4	International Financial Management	20	80	100	4	4
ELECTIVE: TAXA	TION Choose any Two	1	I	1		1
1	Vat and Service Tax	20	80	100	4	4
2	Tax Planning Management	20	80	100	4	4
3	Excise Duty	20	80	100	4	4
4	Fiscal Policy	20	80	100	4	4
ELECTIVE: BAN	KING Choose any Two	1	1			
1	Financial Institutions	20	80	100	4	4
2	Banking Technology	20	80	100	4	4
3	International Banking	20	80	100	4	4
4	Central Banking	20	80	100	4	4
5	Intellectual Property Rights (IPR)					2
6	MOOCS					2
	Project Report			100		6
	Comprehensive Viva Voce			100		4
				2400		

#### M.Com

#### **Program Outcomes**

PO1: To provide a systematic and rigorous learning and exposure to Banking and Finance related disciplines.

PO2: To train the student to develop conceptual, applied and research skills as well as competencies required for effective problem solving and right decision .

PO3: To acquaint a student with conventional as well as contemporary areas in the discipline of Commerce.

PO4: To facilitate the students for conducting business, accounting and auditing practices, role of regulatory bodies in corporate and financial sectors nature of various financial instruments. PO5: To provide in-depth understanding of all core areas

#### **Program Specific Outcomes**

PSO1: After Completing Masters in Commerce students are able to Develop an ability to apply knowledge acquired in problem solving.

PSO2: Ability to work in teams with enhanced interpersonal skills and communication.

PSO3: The students can work in different domains like Accounting, Taxation, HRM,

Banking and Administration.

PSO4: To develop team work, leadership and managerial and administrative skills.

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### REVISED CURRICULUM AND SYLLABI

(With effect for the 2021 – 2022 admitted batch onwards) Modified in the Annual Board of Studies meeting held on 11.08.2021

## M.Sc. Biotechnology



Department of Biotechnology College of Science and Technology Andhra University Visakhapatnam

#### Program Outcomes

PO1:Students acquire insight in to subjects like Microbiology, Molecular Biology and Genetic Engineering.

PO2:Well versed with biotechnological remedies for human health and environmental problems.

PO3:Trained in basic and advanced areas in Biotechnology to develop Biotechnological processes and products.

PO4:Multidisciplinary proficiency will be attained by utilizing MOOCS courses.

PO5:Awareness will be created regarding intellectual property rights.

PO6:Development of human capital for advanced scientific research and entrepreneurship.

#### Program Specific Outcomes

PSO1:Students acquire knowledge, critical thinking skills and experience in conducting cutting edge research.

PSO2: Achieve expertise in a chosen specialized area of Biotechnology based on the research experience gained by their project work.

PSO3:Develop practical skills which will empower to enroll in research institutions and industries. PSO4:Students will be well equipped to pursue higher studies.

PSO5:Able to produce innovative products, meeting the global demands in the field of applied Biotechnology.

PSO6:Students emerge with confidence by developing knowledge both in their subject and soft skills and will be ready to face the challenges in the society.

#### ANDHRA UNIVERSITY M.Sc. BIOTECHNOLOGY- SEMESTER SYSTEM (CBCS) (WITH EFFECT FOR THE 2021 – 2022 ADMITTED BATCH ONWARDS) SCHEME OF INSTRUCTIONS AND EXAMINATION

Paper No.	Title of the Paper	Periods/ Week	Duration of Exam (Hours)	Maximum Marks*	Credits
I Semester					
BT 1.1	Cell Biology & Evolution	4	3	100	4
BT 1.2	Biomolecules	4	3	100	4
r					
------------------------------------------------	----------------------------------------------------------------	----	---	-------	-----
BT 1.3	Microbial Physiology & Genetics	4	3	100	4
BT 1.4	Analytical Tools and Techniques in Biotechnology	4	3	100	4
Practical					
BT 1.5	Lab-I: Cell Biology and Microbiology	12	6	100	4
BT 1.6	Lab-II: Biochemical Analysis and Techniques	12	6	100	4
Total M	arks and Credits for I Semester			600	24
II Semester					
BT 2.1	Enzymology and Metabolism	4	3	100	4
BT 2.2	Molecular Biology	4	3	100	4
BT 2.3	Genetic Engineering	4	3	100	4
BT 2.4	Biology of Immune System	4	3	100	4
Practical			I		1
BT 2.5	Lab-III: Molecular Biology & Genetic Engineering	12	6	100	4
BT 2.6	Lab-IV: Enzymology and Immunology	12	6	100	4
Total M	arks and Credits for II Semester			600	24
III Semester				- I	
BT 3.1	Cell Culture Technology and Tissue Engineering	4	3	100	4
BT 3.2	Plant Biotechnology	4	3	100	4
BT 3.3	Animal Biotechnology	4	3	100	4
BT 3.4 Medical and Environmental Biotechnology		4	3	100	4
Practical				-	1
BT 3.5	Lab-V: Plant Tissue Culture Techniques	12	6	100	4
BT 3.6	Lab-VI: Animal Cell culture and Environmental Biotechnology	12	6	100	4
BT 3.7	MOOCs course I			100	4
BT 3.8	Intellectual Property Rights			50	2
Total M	larks and Credits for III Semester			700	28
IV Semester					
BT 4.1	Heterologous Expression and Down Stream Processing	4	3	100	4
BT 4.2	Bioinformatics and Biostatistics	4	3	100	4
Practical					-
BT 4.3	Lab-VII: Industrial Biotechnology and Bioinformatics	12	6	100	4
BT 4.4	MOOCs course II			100	4
BT 4.5	Value Added Course			50	2
BT 4.6	Project Work- Dissertation & Seminar			300	12
BT 4.7	Comprehensive Viva-voce			100	4
Total M	arks and Credits for IV Semester			800	32
Grand Total M	arks and Credits for 4 Semesters			2,700	108

Grand Total Marks and Credits for 4 Semesters

\* Theory marks include 20 marks for internal assessment

Marks and credits for BT 3.8 and BT 4.5 not included in the total marks and credits.

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## ANDHRA UNIVERSITY DEPARTMENT OF BOTANY M.Sc. BOTANY Course Structure (w.e.f. 2020-2021) (Modifications in BoS meeting held on 23-10-2020)

S. no.	Paper Code	Paper Name	Internal	Semester end	Total Marks	Credits
						L
		1 <sup>st</sup> Semester				
	Theory					
1.	101	Biology & Diversity of Algae and Bryophytes	20	80	100	4
2.	102	Biology & Diversity of Bacteria, Viruses & Fungi	20	80	100	4
3.	103	Cell Biology of Plants	20	80	100	4
4.	104	Ethnobotany, Medicinal & Aromatic Plants	20	80	100	4
	Practicals					 
	Practical -I	Biology & Diversity of Algae and Bryophytes & Biology & Diversity of Bacteria, Viruses &	20	80	100	3
		Fungi				1
	Practical -II	Cell Biology of Plants & Ethnobotany, Medicinal & Aromatic Plants	20	80	100	3
	Te	otal marks and credits for I semeste	er		600	22
		2 <sup>nd</sup> Semester				
	Theory					 
1.	201	Genetics	20	80	100	4
2.	202	Molecular Biology	20	80	100	4
3.	203	Biology & Diversity of Pteridophytes & Gymnosperms	20	80	100	4
4.	204	Plant Cell Tissue & Organ Culture	20	80	100	4
	Practicals					
	Practical -I	Genetics & Molecular Biology	20	80	100	3

	5
600	22
30 100	4
30 100	4
100	4
<u>30 100</u>	4
30 100	4
100	
30 100	3
30 100	3
	2*
	4*
600	22
30 100	4
30 100	4
30 100	4
30 100	4
100	2
100	3
	1
30 100	3
30 100	3
30 100	3 2*
30 100	3 2* 2*
	600           0         100           0         100           0         100           0         100           0         100           0         100           0         100           0         100           0         100           0         100           0         100           0         100           0         100           0         100           0         100           0         100           0         100           0         100           0         100

Total marks and credits for IV semester	600	22
Grand Total marks and credits for all 4 semesters (I,II,III, IV)	2400	88

\* Credits not included in CGPA

Each paper contains 4 theory hours Each practical

contains 12hours.



# ANDHRA UNIVERSITY DEPARTMENT OF CHEMISTRY



PROGRAM : M.SC ORGANIC CHEMISTRY REGULATION AND SYLLABUS EFFECTIVE FROM 2020-2021 BATCH

# ANDHRA UNIVERSITY SCHOOL OF CHEMISTRY DEPARTMENT OF ORGANIC CHEMISTRY& FDW Revised Syllabus for Organic Chemistry Specialization (With effect from the Admitted batch of 2021-2022 Academic Year)

#### **PROGRAM OBJECTIVES:**

- To provide students in the scientific skills and chemical knowledge essential to develop and apply the knowledge in chemical sciences related to analysis of food and drug chemistry.
- 2. To provide knowledge, application, skills in water analysis
- 3. To equip students with effective scientific communication skills
- 4. To encourage the pursuit of lifelong education
- 5. To develop each student into a committed individual with ethical and social responsibility

#### **PROGRAMME OUT COMES:**

The Students Who Completes M.Sc Organic Chemistry Programs

PO1: Have strong foundations in the basic concepts of Organic Chemistry

PO2: Have good employment opportunities in pharmaceutical labs

PO3: Will get Jobs in various Chemical industries related to Pharma companies, polymer companies, pollution control boards etc.

PO4: Have excellent opportunities to pursue research

PO5: Can build their careers as Entrepreneurs by establishing "Start ups".

PO6: Have an opportunity to pursue career teaching in chemistry at various levels.

## **PROGRAMME SPECIFIC OBJECTIVES:**

The students who complete the M.Sc. Chemistry (**Organic Chemistry Specialization**) course

shall:

PSO1: Have strong foundation in the fundamentals and applications of chemical knowledge and understanding

PSO2: Have the abilities to think critically, logically and analytically and solve problem in the area of chemical sciences, drug chemistry, medicinal chemistry and water pollution

PSO3: Have the abilities to carry out chemical experiments, record and analyze the results and design advanced models

PSO4: Have the abilities to use modern library and information retrieving tools to obtain information and assimilate to generate concepts and apply them in challenging situations

PSO5: Have the abilities to effectively communicate their knowledge and skills to other chemists and non-chemists in oral or written formats.

PSO6: Secure suitable employment in the areas of chemical industries like pharmaceutical (R&D, QA & QC), polymers, , environmental and pollution control, nanotechnology and composite materials, teaching and research, etc.

PSO7: Have the personal attributes and ethical sensibilities to enable them to function as effective scientists and citizens

#### REGULATIONS

- 1. The duration of the course is for two academic years with total four semesters. The nature of the course is full-time.
- 2. Candidates for the degree of Master of Science in Chemistry shall be required to have passed the B.Sc with Chemistry / Applied Chemistry / Industrial Chemistry as one the subject of this university or any other university recognized by the academic council as equivalent thereto.
- 3. The course and scope of instruction shall be as defined in the syllabus prescribed. (Annexure-III )
- 4. Candidate who takes instruction shall be required to take examinations at the end of each semester as specified in Annexure-I.
- 5. Each candidate has to undergo an internship for a duration of four weeks during the fourth semester in any chemical industry/ R&D / organization/ or at the department at their own expense and have to submit project report.
- 6. A candidate shall be declared to have passed in any course if he /she secures not less than "E" grade in theory and not less than "D" grade in the practical /Project, provided the result otherwise is withheld. There is no minimum pass marks for internal assessment marks both theory as well as practical.

A candidate shall be deemed to have satisfied the minimum requirement for the award of the degree of M.Sc. Chemistry.

i. If he / she is declared to have passed all the subjects included in the scheme of instruction and examination and

ii. if he /she secures 5.0 CGPA in each of the semesters by the end of the fourth semester.

Further, a candidate shall be permitted to choose any course(s) to appear for improvement in case the candidate fails to secure the minimum prescribed SGPA/CGPA to enable the candidate to pass at the end of any semester examinations. There shall not be any provision for the improvement of internal assessment marks in any theory or practical subjects in any year /semester of study. Grades and calculation of SGPA and CGPA are given in Annexure-II

7. The successful candidates in the M.Sc Chemistry degree examination shall be arranged in the order in which they are registered for the examination in the following classes on the basis of the CGPA. However, students who pass in any supplementary examination shall not be awarded Distinction even if they obtain a CGPA of 8.0 or above, they shall be considered as First Class only.

First Class with Distinction – CGPA 8.0 or more

First Class Second Class/Pass CGPA 7.0 or more but less than 8.0
CGPA 5.0 or more but less than 7.0

- 8. The Question course setting and valuation shall be as per the University regulations at the end of each semester.
- 9. The practical examinations shall be conducted and valued by both internal and external examiners at the end of each semester.
- 10. The viva- voce examination for Project Work shall be conducted both internal and external examiners at the end of the completion of project and after submission of the Project Report by each of the candidates.
- 11. The Minimum attendance required by a candidate will be 75% of the total number for the working days in that semester. Provided that in special cases and for sufficient cause shown, the Vice-chancellor may, on the recommendation of the Principal and the Head of the department concerned, condone the deficiency in the average attendance to an extent of 9% for reasons such as ill health, if the application for condonation is submitted at the time of actual illness and is supported a certificate of an authorized medical officer approved by the Principal. However, 100% attendance should be maintained for all practicals/ labs/ Internship>
- 12. Each of the student has to study two MOOC courses from NPTEL/SWAYAM etc. one in the third semester and the other in the fourth semester of the programme and the grade obtained should be submitted to the Department/ College/ University for incorporation in the marks list along with the Grade/ Course Completion Certificate. The Departmental Committee shall decide whether to accept or not the grade/score obtained by the student. The student has to complete each of these courses during the concerned semester period only.
- 13. Keeping in view of the objectives of NPE 2020 and the directives of the University, two value added courses have been included each in 3rd and 4th semesters of the course. Intellectual Property rights in 3rd semester and Research Methodology in the 4th semester under non-credit scheme. However, the students have to attend the examination and pass the examination similar to that of other subjects of the course.
- 14. The University may, from time to time, revise, amend or change the regulations, scheme of examination and syllabus. In the case of students already undergoing the course, the changes will take effect from the beginning of the following academic year after the change are introduced and shall cover the part of the course that remains to be completed.

Course code	Course Title	Course type (Theory/ Practical)	Instruction periods per week	Internal Marks	External Marks	Total Marks	Duration of Examination	Credits
SCS -117	General Chemistry-I	Theory	04	20	80	100	3 hrs	04
SCS -118	Inorganic Chemistry-I	Theory	04	20	80	100	3 hrs	04

#### M.SC. CHEMISTRY WITH SPECIALIZATION ORGANIC CHEMISTRY SCHEME OF INSTRUCTION AND EXAMINATION FOR I-SEMESTER

SCS -119	Organic Chemistry-I	Theory	04	20	80	100	3 hrs	04
SCS -120	Physical Chemistry- I	Theory	04	20	80	100	3 hrs	04
(PR-347)	Inorganic Chemistry Laboratory-1	Practical	06	15	60	75	3 hrs	03
(PR-348)	Physical Chemistry Laboratory-1	Practical	06	15	60	75	3 hrs	03
(PR-349)	Organic Chemistry Laboratory-1	Practical	06	15	60	75	3 hrs	03
		Total	34			625		25

# M.SC. CHEMISTRY WITH SPECIALIZATION ORGANIC CHEMISTRY SCHEME OF INSTRUCTION AND EXAMINATION FOR II-SEMESTER

Course code	Course Title	Course type (Theory/ Practical)	Instruction periods per week	Internal Marks	External Marks	Total Marks	Duration of Examination	Credits
SCS -215	General Chemistry-II	Theory	04	20	80	100	3 hrs	04
SCS -216	Inorganic Chemistry-II	Theory	04	20	80	100	3 hrs	04
SCS -217	Organic Chemistry-II	Theory	04	20	80	100	3 hrs	04
SCS -218	Physical Chemistry-II	Theory	04	20	80	100	3 hrs	04
(PR-350)	Inorganic Chemistry Laboratory-11	Practical	06	15	60	75	3 hrs	03
(PR-351)	Physical Chemistry Laboratory-I1	Practical	06	15	60	75	3 hrs	03
(PR-352)	Organic Chemistry Laboratory-11	Practical	06	15	60	75	3 hrs	03
		Total	34			625		25

#### M.SC. CHEMISTRY WITH SPECIALIZATION ORGANIC CHEMISTRY

#### SCHEME OF INSTRUCTION AND EXAMINATION FOR III-SEMESTER

Course code	Course Title	Course Type	Instruction Periods per week	External Marks	Internal Marks	Total Marks	Duration of External Examination	Credits
SCOS-310	Paper-I: Organic Reaction Mechanisms, Pericyclic Reactions and Photochemistry	Theory	4	80	20	100	3 hours	4
SCOS-311	Paper-II: Organic Spectroscopy	Theory	4	80	20	100	3 hours	4
SCOS-312	Paper-III: Organic Synthesis	Theory	4	80	20	100	3 hours	4
SCOS-313	Paper-IV: Chemistry of Natural Products	Theory	4	80	20	100	3 hours	4

(PR-819)	Practical - I: Multi Stage Organic Synthesis	Lab	3	80	20	100	6 hours	4
(PR-A 1060)	Practical - II: Chromatography & Viva-Voce	Lab	3	80	20	100	6 hours	4
	MOOCs Course		-	-	-	2		
		Total:				600		26

#### M.SC. CHEMISTRY WITH SPECIALIZATION ORGANIC CHEMISTRY SCHEME OF INSTRUCTION AND EXAMINATION FOR IV-SEMESTER

Course code	Course Title	Course Type	Instruction Periods per week	External Marks	Internal Marks	Total Marks	Duration of External Examination	Credits
SCOS -411	Paper-I: Modern Synthetic Methodology in Organic Chemistry	Theory	4	80	20	100	3 hours	4
SCOS -412	Paper-II: Organic Spectroscopy and Structure determination of Natural Products	Theory	4	80	20	100	3 hours	4
SCOS- 413	Paper-III: Designing Organic Synthesis and Synthetic Applications of Organo-Boranes and silanes	Theory	4	80	20	100	3 hours	4
SCOS- 414	Paper-IV: Drug Design and Drug Chemistry	Theory	4	80	20	100	3 hours	4
	Project Work	Lab	-	100	-	100	-	4
(PR-820)	Practical - I: Organic Mixture Analysis	Lab	3	80	20	100	6 hours	4
(PR-A 1050)	Practical - II: Estimations and Isolation	Lab	3	80	20	100	6 hours	4
(VV-673)	Viva-Voce	-	-	-		50	-	2
	MOOCs Course				-	-	2	
			Total	•		750		32

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Dr. V.S. Krishna Govt. Degree College (A) VISAKHAPATNAM 10

Master of Science in Zoology (M.Sc. Zoology) (Choice Based Credit System)

Program Structure & Syllabus for M.Sc. Zoology

Revised syllabus With effect from 2021-'22 Admitted batch



Department of Zoology College of Science and Technology Andhra University Visakhapatnam A N D H R A U N I V E R S I T Y



# M.Sc. DEGREE EXAMINATION IN ZOOLOGY - SYLLABUS (Effective from 2021- '22 academic year)

The Department of Zoology, College of Science and Technology, Andhra University has been offering M.Sc. Programs in Zoology since 1946. Over a period of time, the scope for subjects like Zoology has been widened due to over whelming knowledge and diversification of core subjects into many specialized areas. Thus, keeping in view the present need of the students, and to keep thrust on the emerging trends at national and international level, the present task of syllabus revision has been taken up. Besides, the syllabus also modified to promote students' performance at national level competitive examinations like UGC – CSIR NET, SLET, other tests offered by many state and central universities to gain entry into M. Phil /Ph. D programs and also for entry level tests concerned with many job opportunities.

#### **1. AFFILIATION**

The proposed programme shall be governed by the Department of Zoology, Andhra University, Visakhapatnam -530003.

#### 2. ELIGIBILITY

To have passed the qualifying examination of this University as detailed in AUCET (Andhra University Common Entrance Test) regulations or an examination of any other University recognized by the Academic Council as equivalent there to.

#### **3. PROGRAMME STRUCTURE**

The M.Sc. Zoology Programme in this University is a two year course, each academic year consisting of two semesters ordinarily consecutive, as given below:

First Year	- Semester – 1 & Semester – 2
Second Year	- Semester – 3 & Semester – 4

- A. Each semester would consist of four papers. Semesters I and II (1<sup>st</sup> Year), Semesters III and IV (2nd Year). It is mandatory for each student to complete a project, assigned at the end of 3<sup>rd</sup> Semester and goes on until 4th semester, to be submitted before the fourth semester examinations. The project work will be assigned by the concerned teacher.
- B. The syllabus for M. Sc Zoology (2 year program) is formulated on par with other Universities in the country and to be implemented from academic year 2021 22.
- C. The syllabus for practical course of the above programme was formulated based on the syllabus given for theory.
- D. In all the four semesters of M. Sc Zoology, four papers/courses in each semester are provided.
- E. Marks and credits are allotted to theory & practical papers in each semester. There will be 100 marks for each theory and 200 marks for 4 practical's each 50 marks.
- F. F. Seminars will be conducted for students at the end of I & III semesters for 50 marks.

A comprehensive viva-voce will be conducted for students at the end of II & IV semesters for 50 marks. Thus, the total marks for each semester  $650 \times 4$  semester 2600 marks.

- G. Examination pattern will be as follows:
- Each theory paper will be evaluated for 100 marks out of which 80% of marks will be for Semester End Examination (SEE) while the remaining 20% marks will be for Mid Semester Examination. There will be two such internal Mid Semester Examinations

and the average of the two will be considered. The candidate should at least attend one Mid Semester Examination.

Similarly, each practical will be evaluated for a total of 50 marks, out of which 80% of marks for Semester End Examination (40 Marks) and 20% (10 Marks) for Continuous Internal Assessment.

- H. The Semester End Examination question paper comprises of five units. Each unit consists of two questions from each unit of syllabus with sub questions of a & b.
- I. An external paper setter shall set the question paper. There shall be either single or double valuation as per the University guidelines.
- J. Similarly, there shall be semester-end examination of 2 3 hours duration for each practical course. Paper-setting and evaluation shall be done jointly by two examiners, one internal and one external.
- K. Performance Evaluation of the candidates with respect to each paper shall be carried out only at the semester end examination.
- L. A candidate appearing for the whole examination shall be declared to have passed the examination if he/she obtains not less than 50% of the total marks in all papers including practical's and records put together. And, also not less than 40% in each paper/practical at the semester end (40% marks for a maximum of 100 marks for each paper). All other candidates shall be deemed to have failed in the examination.
- M. Candidates who have completed the first semester course and have earned the necessary attendance and progress certificate shall be permitted to continue the second semester course irrespective of whether they have appeared or not at all the first semester examination papers. Such candidates may be permitted to appear for the examination of the earlier semester along with the examination of the later semester simultaneously.
- N. Candidates shall put in an attendance at the college for not less than 75% of the total number of working days. Condonation for shortage of attendance (only up to 66%) may be granted on the recommendation of the Principal of the College concerned, as per the University examination guidelines.
- O. No condonation shall be recommended in the case of candidates who have not put in the required attendance at the college as per the University examination guidelines (less than 55%).
- P. If a candidate represents the University officially at games, sports or other extracurricular activities organized officially, it will be deemed that he/she has attended the college on the days he/she is absent for the said purpose.
- Q. The names of successful candidates at the examination shall be arranged in order in which they were registered for the examination (as per the list), based on the total grades obtained by each candidate in I to IV Semester end examinations, put together.
- R. Only that candidate who appears and passes examination in all papers of all four semesters at first appearance is eligible to be placed in the first class with distinction. Candidate who has not passed all papers relating to any semester at the first appearance shall not be eligible for any medals, or prizes by the University or to receive certificates of rank.

#### VI. EXAMINATION SCHEDULE FOR EACH SEMESTER

**Semester Duration**: 4 months (Excluding holidays and time for Semester-end examination). **Theory:** Number of periods per theory paper: 4 to 5 hours per week. Each period of 50 minutes duration.

**Practical:** Students will be distributed into 2 to 3 batches with 20 students in each batch per practical. Each practical class shall be of 3 periods (3 x 50 minutes duration/batch).

M.Sc. Zoology Colleges 1. TSR & TBK P.G. and Degree College, Gajuwaka, Visakhapatnam

2. Chitanya Womens P.G and Degree College, Gajuwaka, Visakhapatnam.

#### HOW IS M.Sc. ZOOLOGY COURSE BENEFICIAL?

- Candidates after completing the course can enter any field of biological and biomedical research.
- They can become researchers, teachers and can be trained in any fields of biology within a short duration. If their past learning outcome in excellent they are fit for doing any job in biomedical field.
- They have also job scopes in the environmental and ecosystem management sector.
- They have also scopes of career in environmental consulting firms in private sector.

#### EXAMS ONE CAN ATTEMPT AFTER COMPLETING M.SC ZOOLOGY COURSE

- Indian Council of Agricultural Research (ICAR) ARS- NET Exam
- CSIR/UGC NET JRF exam in Life Sciences
- Indian Council of Medical Research (ICMR)
- GATE Life Sciences
- Entrance exams conducted by TIFR, NII, NIN, IISC. Etc.
- Indian Forest Service (IFS)
- Union public service commission and State public service commission

#### M.Sc. ZOOLOGY EMPLOYMENT AREAS

- Colleges & Universities
- Zoos & National Parks
- Veterinary Sector
- Biotechnology Companies
- Clinical pathology labs
- National scientific institutions like ZSI, FSI etc

#### JOB TYPES

- Zookeeper
- Wildlife Rehabilitator
- Zoology Teacher in colleges and Universities
- Wildlife Educator
- Biological Laboratory Technician
- Research Associate
- Research Scientist
- Wild life researcher

#### AFTER COMPLETING M.SC ZOOLOGY YOU CAN BECOME

- Zoology Faculty Member
- Zookeeper
- Animal rehabilitator

- Animal Caretakers
- Online tutor
- Zoo Curator
- Wildlife Biologists
- Research Associate
- Animal breeders
- Fishery consultant
- Aquaculture entrepreneur

#### ADVANCED DEGREES - RESEARCH Ph.D.

#### DEPARTMENT OF ZOOLOGY, ANDHRA UNIVERSITY COURSE STRUCTURE WITH EFFECT FROM THE ACADEMIC YEAR 2021-'22

	MSc Zoology - I Semester									
S. No	Paper Title	Maxi	mum Marks			Credits				
		Theory Semester end exam + Mid)	Practical Semester end	Total marks	Theory	Practical/ Viva Voce	Total			
Z / 101	Biosystematics, Biodiversity and Taxonomy	80 + 20	50	150	4	2	6			
Z / 102	Biostatistics and Bioinformatic	80 + 20	50	150	4	2	6			
Z / 103	Tools &Techniques for Biology	80 + 20	50	150	4	2	6			
Z / 104	Molecular Cell Biology	80 + 20	50	150	4	2	6			
Z/S	Seminars		50			2	2			
	Total Marks& Credits	400	250	650	16	10	26			
		MSc Zoology –I	I Semester							
S. No	Paper title	Maxi	mum Marks			Credits				
		Theory Semester end exam + Mid)	Practical Semester end	Total marks	Theory	Practical/ VivaVoce	Total			
Z / 105	Immunology	80 + 20	50	150	4	2	6			
Z / 106	General and Comparative	80 + 20	50	150	4	2	6			
	Physiology									
Z / 107	Molecular Biology	80 + 20	50	150	4	2	6			
Z / 108	Biomolecules	80 + 20	50	150	4	2	6			
Z/V	Viva – Voce		50			2	2			
	Total Marks	400	250	650	16	10	26			
		MSc Zoology -	-III Semester							
S. No	Paper Title	Maxi	mum Marks			Credits				
		Theory (Semester end exam + Mid)	Practical Semester end	Total marks	Theory	Practical/ Viva Voce	Total			
Z/109	Population Genetics &Evolution	80 + 20	50	150	4	2	6			
Z/110	Developmental Biology	80 + 20	50	150	4	2	6			
Z/111	Aquaculture	80 + 20	50	150	4	2	6			
Z /112	Principles of Ecology & Conservation	80 + 20	50	150	4	2	6			
	Online Course through Moocs /SWAYAM				4		4			
	Value added Course - IPR				2		2			
Z / S	Seminars		50			2	2			
	Total Marks	400	250	650	16	10	32			
		MSc Zoology –I'	V Semester							
S. No	Paper Title	Maxi	mum Marks			Credits				
		Theory Semester end exam + Mid)	Practical semester end	Total marks	Theory	Practical/ Viva Voce	Total			

Z /113	Endocrinology and Animal	80 + 20	50	150	4	2	6
	Behaviour						
Z /114	Parasitology	80 + 20	50	150	4	2	6
Z /115	Genetics and Molecular	80 + 20	50	150	4	2	6
	Cytogenetics						
Z / 116	Biotechnology and Applied	80 + 20		100	4	-	6
	Biology						
	Online Course through Moocs				4		4
	/SWAYAM						
	Value added Course- Research				2		2
	methodology						
Z/ P	Project work	-	50	50	-	2	2
Z/V	Viva voce		50			2	2
	Total Marks	400	250	650	16	10	32

Total number of Credits=116

9. vit 25 PRINCIPAL \$ ... Dr. V.S. Krishna Govt. Degree College (A) VISAKHAPATNAM - .

# ANDHRA UNIVERSITY DEPARTMENT OF CHEMISTRY



PROGRAM : M.SC ANALYTICAL CHEMISTRY REGULATION AND SYLLABUS EFFECTIVE FROM 2021-2022 BATCH

#### ANDHRA UNIVERSITY

#### SCHOOL OF CHEMISTRY

# Revised Syllabus for M.Sc. CHEMISTRY (PREVIOUS) With ANALYTCAL CHEMISTRY SPECIALIZATION

(With effect from the Admitted batch of 2021-2022 Academic Year) Programme Objectives

- 1. To mould a generation of youth which can apply the subject knowledge in their life and careers
- 2. To inculcate scientific attitude enriched with a multidisciplinary perspective in the students.
- 3. To demonstrate broad knowledge of descriptive Chemistry.
- 4. To impart the basic analytical and technical skills to work effectively in the various fields of chemistry.
- 5. To motivate critical thinking and analysis skills to solve complex chemical problems, e.g., analysis of data, synthetic logic, spectroscopy, structure and modeling, team-based problem solving, etc.
- 6. To demonstrate an ability to conduct experiments in the above sub-disciplines with mastery of appropriate techniques and proficiency using core chemical instrumentation and modeling methods.
- 7. To demonstrate the ability to perform accurate quantitative measurements with an understanding of the theory and use of contemporary chemical instrumentation, interpret experimental results, perform calculations on these results and draw reasonable, accurate conclusions.
- 8. To demonstrate the ability to synthesize, separate and characterize compounds using published reactions, protocols, standard laboratory equipment, and modern instrumentation.

Programme Outcomes

Students after completing M.Sc Analytical Chemistry course shall

PO1: Be able to demonstrate basic knowledge in the core areas of chemistry

(analytical, general, inorganic, organic, physical, applied chemistry etc).

PO2: Have firm foundations in the fundamentals and application of current chemical and scientific theories in Inorganic, Organic, Physical and Analytical Chemistry. PO3: Be versatile in classical laboratory techniques, use instrumental methods for analysis as well as synthesis and follow standardised procedures and regulations in handling and disposal of chemicals.

PO4: Become post graduates with the skills to critically assess and solve problems requiring the application of chemical principles.

PO5: Equip students with effective scientific communication skills

Programme Specific Outcomes of M.Sc Programme with Analytical Chemistry

PSO1:- Provide theoretical background and develop practical skills for analysing materials using modern analytical methods and instruments

PSO2:- Inculcate a problem solving approach by coordinating the different branches of chemistry

PSO3:- Becomes professionally skilled for higher studies in research institutions and to work in chemical industries.

PSO4:- In-depth knowledge helps to qualify in competitive exams. REGULATIONS

- 1. The duration of the course is for two academic years with total four semesters. The nature of the course is full-time.
- 2. Candidates for the degree of Master of Science in Chemistry shall be required to have passed the B.Sc. with Chemistry / Applied Chemistry / Industrial Chemistry as one the subject of this university or any other university recognized by the academic council as equivalent thereto.
- 3. The course and scope of instruction shall be as defined in the syllabus prescribed. (Annexure-III )
- 4. Candidate who takes instruction shall be required to take examinations at the end of each semester as specified in Annexure-I.
- 5. Each candidate has to undergo an internship for a duration of four weeks during the fourth semester in any chemical industry/ R&D / organization/ or at the department at their own expense and have to submit project report.
- 6. A candidate shall be declared to have passed in any course if he /she secures not less than "E" grade in theory and not less than "D" grade in the practical /Project, provided the result otherwise is withheld. There is no minimum pass marks for internal assessment marks both theory as well as practical.

A candidate shall be deemed to have satisfied the minimum requirement for the award of the degree of M.Sc. Chemistry.

- i. If he / she is declared to have passed all the subjects included in the scheme of instruction and examination and
- ii. if he /she secures 5.0 CGPA in each of the semesters by the end of the fourth semester.

Further, a candidate shall be permitted to choose any course(s) to appear for improvement in case the candidate fails to secure the minimum prescribed SGPA/CGPA to enable the candidate to pass at the end of any semester examinations. There shall not be any provision for the improvement of internal assessment marks in any theory or practical subjects in any year /semester of study. Grades and calculation of SGPA and CGPA are given in Annexure-II

7. The successful candidates in the M.Sc. Chemistry degree examination shall be arranged in the order in which they are registered for the examination in the following classes on the basis of the CGPA. However, students who pass in any supplementary examination shall not be awarded Distinction even if they obtain a CGPA of 8.0 or above, they shall be considered as First Class only.

First Class with Distinction	– CGPA 8.0 or more
First Class	– CGPA 7.0 or more but less than 8.0

Second Class/Pass

- CGPA 5.0 or more but less than 7.0
- 8. The Question course setting and valuation shall be as per the University regulations at the end of each semester.
- 9. The practical examinations shall be conducted and valued by both internal and external examiners at the end of each semester.
- 10. The viva- voce examination for Project Work shall be conducted both internal and external examiners at the end of the completion of project and after submission of the Project Report by each of the candidates.
- 11. The Minimum attendance required by a candidate will be 75% of the total number for

the working days in that semester. Provided that in special cases and for sufficient cause shown, the Vice-chancellor may, on the recommendation of the Principal and the Head of the department concerned, condone the deficiency in the average attendance to an extent of 9% for reasons such as ill health, if the application for condonation is submitted at the time of actual illness and is supported a certificate of an authorized medical officer approved by the Principal. However, 100% attendance should be maintained for all practicals/ labs/ Internship>

- 12. Each of the student has to study two MOOC courses from NPTEL/SWAYAM etc. one in the third semester and the other in the fourth semester of the programme and the grade obtained should be submitted to the Department/ College/ University for incorporation in the marks list along with the Grade/ Course Completion Certificate. The Departmental Committee shall decide whether to accept or not the grade/score obtained by the student. The student has to complete each of these courses during the concerned semester period only.
- 13. Keeping in view of the objectives of NPE 2020 and the directives of the University, two value added courses have been included each in 3rd and 4th semesters of the course. Intellectual Property rights in 3rd semester and Research

Methodology in the 4th semester under non-credit scheme. However, the students have to attend the examination and pass the examination similar to that of other subjects of the course.

14. The University may, from time to time, revise, amend or change the regulations, scheme of examination and syllabus. In the case of students already undergoing the course, the changes will take effect from the beginning of the following academic year after the change are introduced and shall cover the part of the course that remains to be completed.

# COURSE STRUCTURE OF M.Sc. ANALYTICAL CHEMISTRY SPECIALIZATION

Course code	Course Title	Course type (Theory/ Practical)	Instruction periods per week	Internal Marks	External Marks	Total Marks	Duration of Examination	Credits
SCS-117	General Chemistry-I	Theory	04	20	80	100	3 hrs	04
SCS-118	Inorganic Chemistry-I	Theory	04	20	80	100	3 hrs	04
SCS-119	Organic Chemistry-I	Theory	04	20	80	100	3 hrs	04
SCS-120	Physical Chemistry-I	Theory	04	20	80	100	3 hrs	04
PR-347	Inorganic Chemistry Laboratory-1	Practical	06	15	60	75	3 hrs	03
PR-348	Physical Chemistry Laboratory-1	Practical	06	15	60	75	3 hrs	03
PR-349	Organic Chemistry Laboratory-1	Practical	06	15	60	75	3 hrs	03
		Total	34					25

#### SEMESTER –I

## SEMESTER –II

Course code	Course Title	Course type (Theory/ Practical)	Instruction periods per week	Internal Marks	External Marks	Total Marks	Duration of Examination	Credits
SCS-215	General Chemistry-II	Theory	04	20	80	100	3 hrs	04
SCS-216	Inorganic Chemistry-II	Theory	04	20	80	100	3 hrs	04
SCS-217	Organic Chemistry-II	Theory	04	20	80	100	3 hrs	04
SCS-218	Physical Chemistry-II	Theory	04	20	80	100	3 hrs	04
PR-350	Inorganic Chemistry Laboratory-11	Practical	06	15	60	75	3 hrs	03
PR-351	Physical Chemistry Laboratory-I1	Practical	06	15	60	75	3 hrs	03
PR-352	Organic Chemistry Laboratory-11	Practical	06	15	60	75	3 hrs	03
		Total Number of credits						25

III SEMESTER

Course Code	Course Title	Course Type	Instruction Periods per week	Extern Marks	al Inter s Mar	nal ks 1	Total Marks	Duration Extern Examin n	n of 1al atio	Credits
SCAS313	Paper-I: Separation Methods-I	Theory	4	80	20	20		3 hours		4
SCAS309	Paper-II: Quality Control and Traditional Methods of Analysis-I	Theory	4	80	20	20 100		3 hou	rs	4
SCAS310	Paper-III: Applied Analysis-I	Theory	4	80	20	)	100	3 hours		4
SCAS311	Paper-IV: Instrumental Methods of Analysis-I	Theory	4	80	20	20 100		3 hou	rs	4
PR-353	Practical - I: Classical Methods of Analysis	Lab	3	80	20	20 100		6 hou	rs	4
PR-353	Practical - II: Instrumental Methods of Analysis	Lab	3	80	20	)	100	6 hours		4
			То	otal:			600			24
	Non Credit Courses:									
PR- A1328	MOOCs Course		-	-	-	-	-		2	
	Add-on Course on "Intellectual Property Rights"		-	-	-	-	-		2	
	SI	EMEST	ER-IV							
Course Code	Course Title	Course Type	Instruction Periods per week	External Marks	Internal Marks	Total Mark	Dur Ex S Exai	ation of ternal nination	Cre	dits
SCAS412	Paper-I: Separation Methods-II	Theory	4	80	20	100	3	hours	4	Ļ
SCAS408	Paper-II: Quality Control and Traditional Methods of Analysis-II	Theory	4	80	20	100 3 h		hours	4	ŀ
SCAS409	Paper-III: Applied Analysis-II	Theory	4	80	20	100	3	hours	4	ŀ
SCAS413	Paper-IV: Instrumental Methods of Analysis-II	Theory	4	80	20	100 3 h		hours	4	ŀ
PW-A83	Project Work	Lab	-	100	-	100		-	4	ŀ
PR-354	Practical - I: Classical Methods of Analysis	Lab	3	80	20	100	100 6 ho		4	ŀ
PR-354	Practical - II: Instrumental Methods of Analysis	Lab	3	80	20	100	100 6 hours		4	ŀ
VV-701	Viva-Voce		-	-	-	-		-	2	2
		Total:			700			3	0	
	Non Credit Courses:									
PR- A1328	MOOCs Course		-	-	-	-		-		2
	Add-on Course on "Research Methodology"		-	-	-	-		-		2

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