

**GOVERNMENT DEGREE COLLEGE FOR WOMEN  
BEGUMPET, HYDERABAD  
AUTONOMOUS**

**Reaccredited with "B" Grade by NAAC  
CHOICE BASED CREDIT SYSTEM (CBCS)**

**DEPARTMENT OF MATHEMATICS**

**SYLLABUS, MODEL PAPERS**

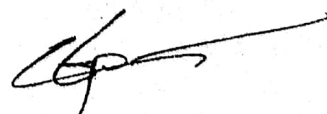
**AND**

**BOARD OF STUDIES MINUTES**

**2018-2019**

## AGENDA FOR THE BOARD OF STUDIES MEETING

1. Approval of the syllabus for <sup>I & II</sup> V & VI semesters of B.Sc. <sup>I</sup> III year <sup>as per</sup> according to CBCS (Choice based credit system).
2. Re-Approval of the syllabus for I,II,III,IV semesters of B.Sc. I & II year <sup>as per</sup> according to CBCS (Choice based credit system).
3. Approval of Skill Enhancement course for III, IV.V, VI semesters.
4. Approval of Generic Elective I and II (GE-I&GE-II) for V and VI semesters.( Inter disciplinary)
5. Approval of Scheme of evaluation-Examination pattern to be followed for all semesters.
6. Approval of list of panel of examiners.
7. Any other matter with the permission of chair.

  
Associate Professor  
Dept of Maths O.U

**GOVERNMENT DEGREE COLLEGE FOR WOMEN (A) BEGUMPET**

**DEPARTMENT OF MATHEMATICS**

**Composition of the Board of Studies:**

1.	Head of the Department Concerned (Chairman)	Smt. M. Prabhavathi Incharge of Mathematics Chairman Board of Studies GCW, Begumpet, Hyd.	
2.	The Entire Faculty of each specialization	<ul style="list-style-type: none"> <li>• G. kavitha Lecturer in Mathematics GDCW, Hyd</li> <li>• M. Sravanthi Lecturer in Mathematics GDCW, Hyd</li> <li>• M. Karishma Lecturer in Mathematics GDCW, Hyd</li> <li>• Juveriya Naaz Lecturer in Mathematics GDCW, Hyd</li> <li>• Faimeena Yasmeen Lecturer in Mathematics GDCW, Hyd</li> </ul>	
3.	Two subject experts from outside Parent University to be nominated by Academic Council	<ul style="list-style-type: none"> <li>• Dr. S. Upendar Associate Professor Dept. of Mathematics Nagarjuna Govt. Degree College, Nalgonda</li> <li>• V. Srinivas Reddy Lecturer in Mathematics GDC, Ramannapet</li> </ul>	
4.	One expert to be nominated by the Vice-Chancellor from a panel of six recommended by the principal	Dr. C. Goverdhan University nominee Osmania University Hyderabad.	
5.	One Postgraduate Meritorious alumnus to be nominated by the principal. The chairman, Board of studies, may with approval of the principal of the college, co-opt: (a) Experts from outside the college Whenever special courses of studies are formulated	M. Karishma BSc - MSc 2013-2016.	

MP2  
MS  
Kavitha  
Smt. M. Prabhavathi  
G. Kavitha  
M. Sravanthi  
M. Karishma  
Juveriya Naaz  
Faimeena Yasmeen  
Dr. S. Upendar  
V. Srinivas Reddy  
Dr. C. Goverdhan  
M. Karishma

**Term:** The term of the Nominated Members shall be three years.

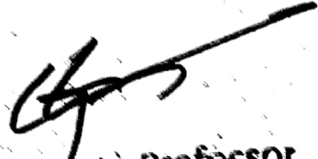
**Meetings:** The Board of studies shall meet at least twice a year.

**Functions:**

The Board of Studies of a Department in the college shall.

- (a) Prepare syllabi for various courses keeping in view the objectives of the college, interest of The stakeholders and national requirement for consideration and approval of the Academic Council.
- (b) Suggest methodologies for innovative teaching and evaluation techniques.
- (c) Suggest panel of names to the Academic council for appointment of examiners.
- (d) Coordinate research, teaching, extension and other academic activities in the department/ College.

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Associate Professor  
Dept of Maths O.U

## B.Sc. MATHEMATICS 1 & 2 YEAR CBCS Syllabus

Telangana state Council of Higher Education, Govt. of Telangana B.Sc., CBCS  
Common core syllabi for all universities in Telangana.

### PROPOSED SCHEME FOR CHOICE BASED CREDIT SYSTEM IN B.Sc., MATHEMATICS.

#### FIRST YEAR

#### Semester-1

CODE	COURSE TITLE	COURSE TYPE	HPW	CREDITS
BS101	ENVIRONMENTAL STUDIES	AECC-I	2	2
BS102	ENGLISH	CC-1A	5	5
BS103	SECOND LANGUAGE	CC-2A	5	5
BS104	OPTIONAL-I DIFFERENTIAL & CALCULUS <small>Integral</small>	DSC-1A	$4T+2P=6$ $15+1=6$	<del>5</del> 5
BS105	OPTIONAL-II	DSC-2A	$4T+2P=6$	$4+1=5$
BS106	OPTIONAL-III	DSC-3A	$4T+2P=6$	$4+1=5$
			30	27

#### SEMESTER-II

CODE	COURSE TITLE	COURSE TYPE	HPW	CREDITS
BS201	GENDER SENSITIZATION	AECC-II	2	2
BS202	ENGLISH	CC-1B	5	5
BS203	SECOND LANGUAGE	CC-2B	5	5
BS204	OPTIONAL-I DIFFERENTIAL EQUATION	DSC-1B	$4T+2P=6$	$4+1=5$
BS205	OPTIONAL-II	DSC-2B	$4T+2P=6$	$4+1=5$
BS206	OPTIONAL-III	DSC-3B	$4T+2P=6$	$4+1=5$
			30	27

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SECOND YEAR

SEMESTER-III

<u>CODE</u>	<u>COURSE TITLE</u>	<u>COURSE TYPE</u>	<u>HPW</u>	<u>CREDITS</u>
<u>BS301</u>	<u>LOGIC &amp; SETS</u>	<u>SEC-1</u>	<u>2</u>	<u>2</u>
<u>BS302</u>	<u>ENGLISH</u>	<u>CC-1C</u>	<u>5</u>	<u>5</u>
<u>BS303</u>	<u>SECOND LANGUAGE</u>	<u>CC-2C</u>	<u>5</u>	<u>5</u>
<u>BS304</u>	<u>OPTIONAL-I REAL ANALYSIS</u>	<u>DSC-1C</u>	<u>4T+2P=6</u>	<u>4+1=5</u>
<u>BS305</u>	<u>OPTIONAL-II</u>	<u>DSC-2C</u>	<u>4T+2P=6</u>	<u>4+1=5</u>
<u>BS306</u>	<u>OPTIONAL-III</u>	<u>DSC-3C</u>	<u>4T+2P=6</u>	<u>4+1=5</u>
			<u>30</u>	<u>27</u>

SEMESTER-IV

<u>CODE</u>	<u>COURSE TITLE</u>	<u>COURSE TYPE</u>	<u>HPW</u>	<u>CREDITS</u>
<u>BS401</u>	<u>TRANSPORTATION &amp; GAME THEORY</u>	<u>SEC-2</u>	<u>2</u>	<u>2</u>
<u>BS402</u>	<u>ENGLISH</u>	<u>CC-1D</u>	<u>5</u>	<u>5</u>
<u>BS403</u>	<u>SECOND LANGUAGE</u>	<u>CC-2D</u>	<u>5</u>	<u>5</u>
<u>BS404</u>	<u>OPTIONAL-I ALGEBRA</u>	<u>DSC-1D</u>	<u>4T+2P=6</u>	<u>4+1=5</u>
<u>BS405</u>	<u>OPTIONAL-II</u>	<u>DSC-2D</u>	<u>4T+2P=6</u>	<u>4+1=5</u>
<u>BS406</u>	<u>OPTIONAL-III</u>	<u>DSC-3D</u>	<u>4T+2P=6</u>	<u>4+1=5</u>
			<u>30</u>	<u>27</u>

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*Kanilla*  
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*[Signature]*  
Associate Professor  
Dept of Maths O.U

B.Sc. MATHEMATICS 3 YEAR CBCS Syllabus

Telangana state Council of Higher Education, Govt. of Telangana B.Sc., CBCS  
Common core syllabi for all universities in Telangana.


PROPOSED SCHEME FOR  
CHOICE BASED CREDIT SYSTEM IN B.Sc., MATHEMATICS

SEMESTER-V

<u>CODE</u>	<u>COURSE TITLE</u>	<u>COURSE TYPE</u>	<u>HPW</u>	<u>CREDITS</u>
<u>BS501</u>	<u>MATHEMATICAL MODELLING</u>	<u>SEC-3</u>	<u>2</u>	<u>2</u>
<u>BS502</u>	<u>QUANTITATIVE APTITUDE</u>	<u>GE-1</u>	<u>2T</u>	<u>2</u>
<u>BS503</u>	<u>OPTIONAL-1 LINEAR ALGEBRA</u>	<u>DSC-1E</u>	<u>3T+2P=5</u>	<u>3+1=4</u>
<u>BS504</u>	<u>OPTIONAL-II</u>	<u>DSC-2E</u>	<u>3T+2P=5</u>	<u>3+1=4</u>
<u>BS505</u>	<u>OPTIONAL-III</u>	<u>DSC-3E</u>	<u>3T+2P=5</u>	<u>3+1=4</u>
<u>BS506</u>	<u>OPTIONAL-I A/B/C SOLID GEOMETRY/INTEGRAL CALCULUS</u>	<u>DSE-1E</u>	<u>3T+2P=5</u>	<u>3+1=4</u>
<u>BS507</u>	<u>OPTIONAL-II A/B/C</u>	<u>DSE-2E</u>	<u>3T+2P=5</u>	<u>3+1=4</u>
<u>BS508</u>	<u>OPTIONAL-III A/B/C</u>	<u>DSE-3E</u>	<u>3T+2P=5</u>	<u>3+1=4</u>
			<u>34</u>	<u>28</u>

SEMESTER-VI

<u>CODE</u>	<u>COURSE TITLE</u>	<u>COURSE TYPE</u>	<u>HPW</u>	<u>CREDITS</u>
<u>BS601</u>	<u>GRAPH THEORY</u>	<u>SEC-4</u>	<u>2</u>	
<u>BS602</u>	<u>LOGICAL REASONING</u>	<u>GE-2</u>	<u>2T</u>	
<u>BS603</u>	<u>OPTIONAL-I NUMERICAL ANALYSIS</u>	<u>DSC-1F</u>	<u>3T+2P=5</u>	<u>3+1=4</u>
<u>BS604</u>	<u>OPTIONAL-II</u>	<u>DSC-2F</u>	<u>3T+2P=5</u>	<u>3+1=4</u>
<u>BS605</u>	<u>OPTIONAL-III</u>	<u>DSC-3F</u>	<u>3T+2P=5</u>	<u>3+1=4</u>

  
Associate Professor  
Dept of Mathematics

<u>BS606</u>	<u>OPTIONAL-I A/B/C COMPLEX ANALYSIS/VECTOR CALCULLUS</u>	<u>DSE-1F</u>	3T+2P=5	3+1=4
<u>BS607</u>	<u>OPTIONAL-II A/B/C</u>	<u>DSE-2F</u>	3T+2P=5	3+1=4
<u>BS608</u>	<u>OPTIONAL-III A/B/C</u>	<u>DSE-3F</u>	3T+2P=5	3+1=4
			34	28
	<u>TOTAL CREDITS</u>			<u>164</u>

AECC: Ability Enhancement Compulsory course ,


SEC: Skill Enhancement Course,

GE: Generic Elective,

DSC: Discipline Specific course,

DSE: Discipline specific Elective.


  
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 Associate Professor  
 Dept of Maths O.U.



Department of Mathematics

Courses Offered: B.Sc (M.S.Cs, M.C.Ic.M.P.C, M.P.Cs)

Mathematics-Semester I, II, III, IV, V, VI

Scheme of Evaluation

Module:

A. Theory: Max.Marks:100

Split:

End Semester Exam: 75

Internal Assessment: 25

Internal Assessment test: 15

(Average of two tests)

Assignments: 04 05

Seminar: 04 05

~~Attendance: 02~~

B. Practicals:Max.Marks:50

Per Semester Number of Credits: 01


Split:

End Semester Exam: 32

Viva Voice: 10

Record: 08


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Associate Professor  
Dept of Math. Q.B


### MINUTES OF MEETING

#### THE FOLLOWING RESOLUTIONS ARE TAKEN IN THE MEETING

1. The syllabus for V and VI semester of B.Sc . III year as per CBCS(Choice based credit system) has been approved.
2. The syllabus of I,II,III,IV semesters of B.Sc. I&II year as per CBCS(Choice based credit system) has been re-approved.
3. Skill Enhancement Course for III,IV,V,VI semesters has been approved with slight changes.
4. Generic Elective I&II (GE-1& GE-2) for V,VI semesters has been approved.
5. Scheme of evaluation-examination pattern to be followed for all semesters has been approved.
6. List of panel examiners has been approved.
7. Any other matter with permission of chair.

  
 University Nominee  
 Associate Professor  
 BOS, Dept of Maths O.U.,  
 Dept of Mathematics

  
 Subject Expert  
 Dept of Mathematics

  
 Subject Expert  
 Dept of Mathematics