



# **KAKATIYA GOVERNMENT COLLEGE**

**HANUMAKONDA, TELANGANA STATE – 506001**

**(Affiliated to Kakatiya University, Warangal)**

**(e-mail:warangal.jkc@gmail.com, website: <https://gdcts.cgg.gov.in/hanamkonda.edu>)**





## **Criterion - I**

### **Metric: 1.1.2**

#### **University Affiliation & CBCS Pattern**

**PROCEEDINGS OF THE REGISTRAR, KAKATIYA UNIVERSITY, WARANGAL  
REGARDING THE IMPLEMENTATION OF CHOICE BASED CREDIT SYSTEM  
FOR THE ACADEMIC YEAR 2016 - 2017**

<b>PROF. KHAJA ALTHAF HUSSAIN</b> <b>REGISTRAR</b>		<b>OFFICE OF THE REGISTRAR</b> <b>KAKATIYA UNIVERSITY</b> <b>WARANGAL - 506 009</b>
No. 199 /B2//KU/2016		Date: 2-02-2016
To		
The Principals of University & Affiliated Colleges Offering U.G. (Professional & Non-Professional) courses KAKATIYA UNIVERSITY		
Sub:- Implementation of Choice Based Credit System in U.G. (Professional & Non-Professional) courses from the academic year 2016-2017 - Regarding.		
Sir/Madam,		
<p>The Higher Education Department, Government of Telangana on the directions of M.H.R.D. deliberated at various levels and took a decision making the implementation of Choice Based Credit System mandatory at UG-level for all Colleges.</p> <p>In view of this, it is to inform you in advance that the implementation of CBCS is mandatory in all U.G. courses (Professional &amp; Non-Professional) in all Colleges under the jurisdiction of Kakatiya University from the academic year 2016-2017.</p> <p>Therefore, it is to bring it to the notice of the Managements and Principals to bring awareness among all the stake holders by downloading the relevant material from UGC website and also Kakatiya University website.</p> <p>In this connection, a meeting of Principals of all the Under-Graduate (Non-Professional) colleges is convened on 14<sup>th</sup> March, 2016 at 10.30 a.m. in the Senate Hall of Administrative Building on the University campus to discuss (i) Implementation of Choice Based Credit System (ii) Uploading of D.C.F.-II form of All India Survey on Higher Education (AISCHE) portal.</p> <p>The out-station members shall paid TA &amp; DA as per norms from the provision of "20% Registration Fee" kept at the disposal of the respective colleges for academic activities.</p> <p>Kindly make it convenient to attend the meeting without fail.</p>		
Yours faithfully,  REGISTRAR		

**BA PROGRAMME COURSE PATTERN UNDER CBCS W.E.F. 2019-20****KAKATIYA UNIVERSITY WARANGAL 506 009**

Scheme under Choice Based Credit System  
With Effect from the Academic Year 2019-2020  
**B.A. PROGRAMME**

**FIRST YEAR****SEMESTER - I**

Code	Course category	Title of the Paper *	No. of Credits	HPW	Max. Marks		Total Marks
					IA	End Exam	
B A 101	AECC-1	Basic Computer Skills	2	2	10	40	50
B A 102	FL-1 A	ENGLISH	4	4	20	80	100
B A 103	SL-1 B	SECOND LANGUAGE	4	4	20	80	100
B A 104	DSC-1 A	OPTIONAL - I	5	5	20	80	100
B A 105	DSC-2 A	OPTIONAL - II	5	5	20	80	100
B A 106	DSC-3 A	OPTIONAL - III	5	5	20	80	100
		Summary of Credits	25	25	-	-	550

**SEMESTER - II**

Code	Course category	Title of the Paper *	No. of Credits	HPW	Max. Marks		Total Marks
					IA	End Exam	
B A 201	AECC-2	Environmental Studies	2	2	10	40	50
B A 202	FL-2 A	ENGLISH	4	4	20	80	100
B A 203	SL-2 B	SECOND LANGUAGE	4	4	20	80	100
B A 204	DSC-1B	OPTIONAL - I	5	5	20	80	100
B A 205	DSC-2B	OPTIONAL - II	5	5	20	80	100
B A 206	DSC-3B	OPTIONAL - III	5	5	20	80	100
		Summary of Credits	25	25	-	-	550

\* If a particular optional is having practical lab, the No. of credits may be considered as 4 = 1 (Theory + Lab Practical)

**KAKATIYA UNIVERSITY WARANGAL 506 009**  
**Scheme under Choice Based Credit System**  
**With Effect from the Academic Year 2020-2021**  
**B.A. PROGRAMME**

**SECOND YEAR**

**SEMESTER - III**

Code	Course category	Title of the Paper *	No. of Credits	HPW	Max. Marks		Total Marks
					IA	End Exam	
BA 301	SEC-1	Project Planning and Report Writing	2	2	10	40	50
BA 302	SEC-2	Entrepreneurship and Development	2	2	10	40	50
BA 303	FL-3 A	ENGLISH	3	3	15	60	75
BA 304	SL-3 B	SECOND LANGUAGE	3	3	15	60	75
BA 305	DSC-1 C	OPTIONAL - I	5	5	20	80	100
BA 306	DSC-2 C	OPTIONAL – II	5	5	20	80	100
BA 307	DSC-3 C	OPTIONAL – III	5	5	20	80	100
Summary of Credits			25	25	110	440	550

**SEMESTER - IV**

Code	Course category	Title of the Paper *	No. of Credits	HPW	Max. Marks		Total Marks
					IA	End Exam	
BA 401	SEC-3	Forms of Journalistic Writing	2	2	10	40	50
BA 402	SEC-4	Rural Politics and Leadership	2	2	10	40	50
BA 403	FL- 4 A	ENGLISH	3	3	15	60	75
BA 404	SL- 4 B	SECOND LANGUAGE	3	3	15	60	75
BA 405	DSC-1 D	OPTIONAL - I	5	5	20	80	100
BA 406	DSC-2 D	OPTIONAL – II	5	5	20	80	100
BA 407	DSC-3 D	OPTIONAL – III	5	5	20	80	100
Summary of Credits			25	25	110	440	550

- If a particular optional is having practical lab, the No. of credits may be considered as 4 = 1 (Theory + Lab Practical)

**KAKATIYA UNIVERSITY WARANGAL 506 009**  
**Scheme under Choice Based Credit System**  
**With Effect from the Academic Year 2021- 2022**  
**B.A. PROGRAMME**  
**FINAL YEAR**

**SEMESTER - V**

Code	Course category	Title of the Paper *	No. of Credits	HPW	Max. Marks		Total Marks
					IA	End Exam	
BA 501	FL-5 A	ENGLISH	3	3	15	60	75
BA 502	SL-5 B	SECOND LANGUAGE	3	3	15	60	75
BA 503	GE	Good Governance	4	4	20	80	100
BA 504	DSE-1 E	OPTIONAL – I	5	5	20	80	100
BA 505	DSE-2 E	OPTIONAL – II	5	5	20	80	100
BA 506	DSE-3 E	OPTIONAL – III	5	5	20	80	100
Summary of Credits			<b>25</b>	<b>25</b>	<b>110</b>	<b>440</b>	<b>550</b>

**SEMESTER - VI**

Code	Course category	Title of the Paper *	No. of Credits	HPW	Max. Marks		Total Marks
					IA	End Exam	
BA 601	FL-6 A	ENGLISH	3	3	15	60	75
BA 602	SL-6 B	SECOND LANGUAGE	3	3	15	60	75
BA 603	PW - / Optional	Cultural Tourism In India	4	4	20	80	100
BA 606	DSE-1 F	OPTIONAL – I	5	5	20	80	100
BA 607	DSE-2 F	OPTIONAL – II	5	5	20	80	100
BA 608	DSE-3 F	OPTIONAL – III	5	5	20	80	100
Summary of Credits			<b>25</b>	<b>25</b>	<b>110</b>	<b>440</b>	<b>550</b>

NSS/NCC/ Sports/Extra Curricular	Credits under Non – CGPA 6	Up to 6 (2 in each Year)	Up to 6 (2 in each Year)	Up to 6 (2 in each Year)
Summer internship	4	Up to 4 (2 in each, after I & II years)	Up to 4 (2 in each, after I & II years)	Up to 4 (2 in each, after I & II years)

FL-: First Language;  
 SL-: Second Language;  
 AECC: Ability Enhancement Compulsory Course;  
 SEC: Skill Enhancement Course;  
 DSC: Discipline Specific Course;  
 DSE: Discipline Specific Elective;  
 GE: Generic Elective;  
 PW: Project Work;

**B.Com. PROGRAMME COURSE PATTERN UNDER CBCS W.E.F. 2019-20**

*Faculty of Commerce & Business Management, Kakatiya University, Warangal.*

**B.Com.**  
**(GENERAL)**  
**(CBCS)**



**FACULTY OF COMMERCE & BUSINESS MANAGEMENT**  
**KAKATIYA UNIVERSITY**  
**Vidyaranyaपुरi, Warangal**

*2019-2020*

**B.COM (GENERAL)**  
**CBCS COURSE STRUCTURE**

Sl.No.	Code	Course Title	HPW	Credits	Exam Hrs	Marks
(1)	(2)	(3)	(5)	(6)	(7)	(8)
<b>I Year I Semester</b>						
1.	ELS1	English (First Language)	4	4		
2.	SLS1	Second Language	4	4		
3.	AECC1	Environmental Science/ Basic Computer Skills	2	2		
4.	DSC101	Financial Accounting-I	5	5	3 hrs	80U+20I
5.	DSC102	Business Organization and Management	5	5	3 hrs	80U+20I
6.	DSC103	Foreign Trade	5	5	3 hrs	80U+20I
<b>Total</b>			<b>25</b>	<b>25</b>		
<b>I Year II Semester</b>						
7.	ELS2	English (First Language)	4	4		
8.	SLS2	Second Language	4	4		
9.	AECC2	Basic Computer Skills/ Environmental Science	2	2		
10.	DSC201	Financial Accounting-II	5	5	3 hrs	80U+20I
11.	DSC202	Business Laws	5	5	3 hrs	80U+20I
12.	DSC203	Banking and Financial Services	5	5	3 hrs	80U+20I
<b>Total</b>			<b>25</b>	<b>25</b>		
<b>II Year I Semester</b>						
13.	ELS3	English (First Language)	3	3		
14.	SLS3	Second Language	3	3		
15.	SEC1	Principles of Insurance/ Foundation of Digital Marketing/ Fundamentals of Business Analytics	2	2	1 ½ hrs	40U+10I
16.	SEC2	Practice of Life Insurance/ Web Design & Analytics/ Application of Business Analytics	2	2	1 ½ hrs	40U+10I
17.	DSC301	Advanced Accounting	5	5	3 hrs	80U+20I
18.	DSC302	Business Statistics-I	5	5	3 hrs	80U+20I
19.	DSC303	Financial Institutions and Markets	5	5	3 hrs	80U+20I
<b>Total</b>			<b>25</b>	<b>25</b>		

*Faculty of Commerce & Business Management, Kakatiya University, Warangal.*

SL.No.	Code	Course Title	HPW	Credits	Exam Hrs	Marks
(1)	(2)	(3)	(5)	(6)	(7)	(8)
<b>II Year II Semester</b>						
20.	ELS4	English (First Language)	3	3		
21.	SLS4	Second Language	3	3		
22.	SEC3	Practice of General Insurance/ Social Media Marketing Business Intelligence	2	2	1 ½ hrs	40U+10I
23.	SEC4	a)Regulation of Insurance Business/ b)Search Engine Optimization & Online Advertising c)Data Visualisation&Storytelling	2	2	1 ½ hrs	40U+10I
24.	DSC401	Income Tax/Excel Foundation	5	5	3 hrs	80U+20I
25.	DSC402	Business Statistics-II	5	5	3 hrs	80U+20I
26.	DSC403	Corporate Accounting	5	5	3 hrs	80U+20I
		<b>Total</b>	<b>25</b>	<b>25</b>		
		1				
<b>III Year I Semester</b>						
27.	ELS5	English (First Language)	3	3		
28.	SLS5	Second Language	3	3		
29.	GE	Business Economics	4	4	3 hrs	80U+20I
30.	DSE501	Cost Accounting/ Financial Planning & Performance/ Financial Reporting-I	5	5	3 hrs	80U+20I
31.	DSE502	Computerized Accounting/ Financial Decision Making-I/ International Tax& Regulation	3T+4P/5	5	3 hrs	50T+35P + 15I/ 80U+20I
32.	DSE503	Auditing/ AdvancedCorporate Accounting/ Financial Management	5	5	3 hrs	80U+20I
		<b>Total</b>	<b>27/25</b>	<b>25</b>		
<b>III Year II Semester</b>						
33.	ELS6	English (First Language)	3	3		
34.	SLS6	Second Language	3	3		
35.	PR	Research Methodology and Project Report	2T+4R	4	1 ½ hrs	40U+10I +15V V
36.	DSE601	a) Cost Control and Management Accounting/ Financial control/ Financial Reporting-II	5	5	3 hrs	80U+20I
37.	DSE602	Theory and Practice of GST/ Financial Decision Making-II / InternationalAuditing	3T+4P/5	5	3 hrs	50T+35P + 15I/ 80U+20I
38.	DSE603	Accounting Standards/ Corporate Governance/ Investment management	5	5	3 hrs	80U+20I
		<b>Total</b>	<b>29/27</b>	<b>25</b>		
		<b>GRAND TOTAL</b>	<b>156/152</b>	<b>150</b>		



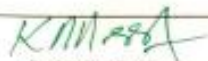



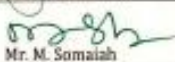


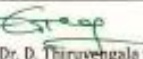

**Faculty of Commerce & Business Management, Kakatiya University, Warangal**

**ELS:** English Language Skill; **SLS:** Second Language Skill; **AEC:** Ability Enhancement Compulsory Course; **SEC:** Skill Enhancement Course; **DSC:** Discipline Specific Course; **DSE:** Discipline Specific Elective; **GE:** Generic Elective; **T:** Theory; **P:** Practical; **I:** Internal Exam **U:** University Exam; **PR:** Project Report; **VV:** Viva- Voce Examination.

**Note:** If a student should opt for "a" in SEC in III semester, the student has to opt for "a" only in IV semester and so is the case with "b" and "c". In the case of DSE also the rule applies.

**SUMMARY OF CREDITS**

Sl. No.	Course Category	No. of Courses	Credits Per Course	Credits
1	English Language	6	4/3	20
2	Second Language	6	4/3	20
3	AECC	2	2	4
4	SEC	4	2	8
5	GE	1	4	4
6	Project Report	1	4	4
7	DSC	12	5	60
8	DSE	6	5	30
	<b>TOTAL</b>	<b>38</b>		<b>150</b>
	Commerce	24		106
<b>CREDITS UNDER NON-CGPA</b>		SS/NCC/Sports/Extra Curricular	Up to 6 (2 in each year)	
		Summer Internship	Up to 4 (2 in each after I & II years)	

 Prof. K. Raji Reddy	 Prof. T. Varalaxmi	 Dr. K. Rajender
 Dr. S. Narasimha Chary	 Mr. M. Somaiah	 Dr. S. Narayana Swamy
 Dr. Ramavath Ravi	 Dr. D. Thiruvengala Chary	 Dr. G. Shashidhar Rao

**Paper DSC 101: FINANCIAL ACCOUNTING - I**

*Objective: To acquire conceptual knowledge of basics of Accounting and preparation of final accounts of sole trader.*

**UNIT-I: ACCOUNTING PROCESS:**

Financial Accounting: Introduction - Definition - Evolution - Functions - Advantages and Limitations - Users of Accounting Information - Branches of Accounting - Accounting Principles: Concepts and Conventions - Accounting Standards - Meaning - Importance - List of Accounting Standards issued by ASB - Accounting System - Types of Accounts - Accounting Cycle - Journal - Ledger and Trial Balance (Including problems)

**UNIT-II: SUBSIDIARY BOOKS:**

Meaning -Types: Purchases Book - Purchases Returns Book - Sales Book - Sales Returns Book - Bills Receivable Book - Bills Payable Book - Cash Book: Single Column, Two Column, Three Column and Petty Cash Book - Journal Proper (Including problems)

**UNIT-III: BANK RECONCILIATION STATEMENT:**

Meaning - Need - Reasons for differences between cash book and pass book balances - Favourable and over draft balances - Ascertainment of correct cash book balance (Amended Cash Book) - Preparation of Bank Reconciliation Statement (Including problems)

**UNIT-IV: RECTIFICATION OF ERRORS AND DEPRECIATION:**

Capital and Revenue Expenditure - Capital and Revenue Receipts: Meaning and Differences - Differed Revenue Expenditure. Errors and their Rectification: Types of Errors - Suspense Account - Effect of Errors on Profit (Including problems)

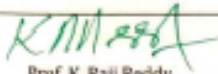
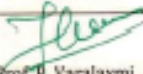


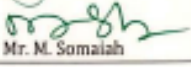


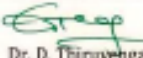

Depreciation (AS-6): Meaning - Causes - Difference between Depreciation, Amortization and Depletion - Objectives of providing for depreciation - Factors affecting depreciation - Accounting Treatment - Methods of depreciation: Straight Line Method - Diminishing Balance Method (Including problems)

**UNIT-V: FINAL ACCOUNTS:**

Final Accounts of Sole Trader: Meaning - Uses - Preparation of Manufacturing, Trading and Profit & Loss Account and Balance Sheet - Adjustments - Closing Entries (Including problems)

**SUGGESTED READINGS:**

1. Accountancy-I: Haneef and Mukherjee, Tata McGraw Hill Company.
2. Principles & Practice of Accounting: R.L.Gupta&V.K.Gupta, Sultan Chand.
3. Accountancy-I: S.P. Jain & K.L Narang, Kalyani Publishers.
4. Accountancy-I: Tulasian, Tata McGraw Hill Co.
5. Advanced Accountancy-I: S.N.Maheshwari& V.L.Maheswari, Vikas.
6. Financial Accounting: Jawahar Lal, Himalaya Publishing House.

 Prof. K. Raji Reddy	 Prof. P. Varalaxmi	 Dr. K. Rajender
 Dr. S. Narasimha Chary	 Mr. M. Somalah	 Dr. S. Narayana Swamy
 Dr. Ramavath Ravi	 Dr. D. Thiruvengala Chary	 Dr. G. Shashidhar Rao

**Faculty of Commerce & Business Management, Kakatiya University, Warangal.**

**Paper DSC 102: BUSINESS ORGANISATION AND MANAGEMENT**

**Objective:** To acquaint the students with the basics of Commerce and Business concepts and functions, forms of Business Organization and functions of Management.

**UNIT-I: INTRODUCTION AND FORMS OF BUSINESS ORGANISATIONS:**

Concepts of Business, Trade, Industry and Commerce - Objectives and Functions of Business - Social Responsibility of a Business - Forms of Business Organization - Meaning, Characteristics, Advantages and Disadvantages of Sole Proprietorship - Meaning, Characteristics, Advantages and Disadvantages of Partnership - Kinds of Partners - Partnership Deed - Concept of Limited Liability Partnership - Meaning, Characteristics, Advantages and Disadvantages of Hindu Undivided Family - Meaning, Advantages and Disadvantages of Co-Operative Organization

**UNIT-II: JOINT STOCK COMPANY:**

Joint Stock Company - Meaning - Definition - Characteristics - Advantages and Disadvantages - Kinds of Companies - Promotion - Stages of Promotion - Promoter - Characteristics - Kinds - Preparation of Important Documents - Memorandum of Association - Clauses - Articles of Association - Contents - Prospectus - Contents - Red herring Prospectus- Statement in lieu of Prospectus (As per Companies Act, 2013)

**UNIT-III: INTRODUCTION TO FUNCTIONS OF MANAGEMENT:**

Management - Meaning - Characteristics - Functions of Management - Levels of Management - Skills of Management- Scientific Management - Meaning - Definition - Objectives - Criticism - Fayol's 14 Principles of Management

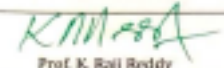
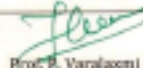







**UNIT-IV: PLANNING AND ORGANISING:** Meaning - Definition - Characteristics - Types of Plans - Advantages and Disadvantages - Approaches to Planning - Management by Objectives (MBO) - Steps in MBO - Benefits - Weaknesses - Definition of Organizing - Organization - Process of Organizing - Principles of Organization - Formal and Informal Organizations - Line, Staff Organizations - Line and Staff Conflicts - Functional Organization - Span of Management - Meaning - Determining Span - Factors influencing the Span of Supervision

**UNIT-V: AUTHORITY, COORDINATION AND CONTROL:**

Meaning of Authority, Power, responsibility and accountability - Delegation of Authority - Decentralization of Authority - Definition, importance, process, and principles of Coordination - techniques of Effective Coordination - Control - Meaning - Definition - Relationship between planning and control - Steps in Control - Types (post, current and pre-control) - Requirements for effective control

**SUGGESTED READINGS:**

1. Business Organization & Management: Sharma Shashi K. Gupta, Kalyani Publishers
2. Business Organisation & Management: Patrick Anthony, Himalaya Publishing House
3. Business Organization & Management: Dr. Manish Gupta, PBP.
4. Modern Business Organization: S.A. Sherlekar, V.S. Sherlekar, Himalaya Publishing House
5. Business Organization & Management: C.R. Basu, Tata McGraw Hill
6. Organizational Behaviour Text & Cases: V.S.P. Rao, Himalaya Publishing House
7. Business Organization & Management: Uma Shekaram, Tata McGraw Hill
8. Business Organization & Management: Niranjan Reddy & Surya Prakash, Vaagdevi publishers
9. Business Organisation and Management, Dr. NeeruVasith, Tax Mann Publications.

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Faculty of Commerce & Business Management, Kakatiya University, Warangal

### Paper DSC 103: FOREIGN TRADE

*Objective: To gain knowledge of India's foreign trade procedures policies, and international institutions.*

#### UNIT-I: INTRODUCTION:

Foreign Trade: Meaning and Definition - Types - Documents used - Commercial Invoice - Bills of Lading / Airway Bill - Marine Insurance Policy and Certificate - Bills of Exchange - Consumer Invoice - Customs Invoice - Certificate of Origin - Inspection Certificate - Packing List

#### UNIT-II: BALANCE OF TRADE AND BALANCE OF PAYMENTS:

Introduction - Meaning - Components of BOT & BOP - Concept of Disequilibrium - Causes - Remedies for Correcting Balance of Payments in International Trade

#### UNIT-III: INDIAN TRADE POLICY:

Importance and its Implementation - Current Export Policy and Import Policy.

#### UNIT-IV: FOREIGN TRADE AND TRADE BLOCS:





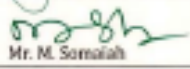


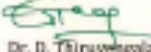

Growth - Significance of Foreign Trade - Merits - Demerits - Trade Blocs: Types - Preferential Trade Area, Free Trade Area, Customs Unions, Common Markets, Economic Unions, Monetary Unions, Customs and Monetary Unions, and Economic and Monetary Unions

#### UNIT-V: INTERNATIONAL ECONOMIC INSTITUTIONS:

IMF: Objectives - Functions - World Bank: Objectives - Functions - Subsidiaries of World Bank - IMF Vs. IBRD; New Development Bank (NDB) - Objective Functions - Features - Membership - Shareholding, Criticism, Asian Infrastructure Investment Bank (AIIB) - Objective Functions - Features - Membership - Shareholding, Criticism; Trans - Pacific Partnership (TPP) - Objective Functions - Features - Membership - Shareholding, Criticism; UNCTAD: Aims - Features; WTO - Aims - Features - Agreements

#### SUGGESTED READINGS:

1. International Marketing: Rathore & Jain, Himalaya Publishers.
2. International Marketing: Kushpat S. Jain & Rimi Mitra, Himalaya Publishers
3. Foreign Trade -Dr Srinivasa Narayana, Jyoti Mehra - PBP
4. International Economics: SSM Desai & Nirmal Bhalerao, Himalaya Publishers.
5. International Business Environment & Foreign Exchange Economies: Singh & S. Srivastava,
6. Foreign Trade and Foreign Exchange: O.P Agarwal & B.K.Chaudri, Himalaya Publishers
7. International Financial Markets & Foreign Exchange: Shashi K.Gupta & Praneet Rangi, Kalyani
8. International Economics: Theory & Practice: Paul R. Krugman, Pearson Publishers.

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**B.Sc. PROGRAMME COURSE PATTERN UNDER CBCS W.E.F. 2019-20**

**KAKATIYA UNIVERSITY, WARANGAL - 506 009**  
**B.Sc. PROGRAMME**  
**Under CBCS System**  
**Scheme wef A.Y: 2019-20**

**FIRST YEAR**

**SEMESTER - I**

Code	Course category	Title of the Paper	No. of Credits	Hrs PW	Max. Marks			Total Marks
					Internal Exam	End Exam	Lab	
BS101	AECC-1	Environmental Science	2	2	10	40	-	50
BS102	FL-1A	English	4	4	20	80	-	100
BS103	SL-1A	Second Language	4	4	20	80	-	100
BS104	DSC-1A	Optional - I	4	4	20	80	25	125
		Optional - I Lab	1	3				
BS105	DSC-2A	Optional - II	4	4	20	80	25	125
		Optional - II LAB	1	3				
BS106	DSC-3A	Optional - III	4	4	20	80	25	125
		Optional - III LAB	1	3				
<b>TOTAL:</b>			<b>25</b>	<b>-</b>	<b>110</b>	<b>440</b>	<b>75</b>	<b>625</b>

**SEMESTER - II**

Code	Course category	Title of the Paper	No. of Credits	Hrs PW	Max. Marks			Total Marks
					Internal Exam	End Exam	Lab	
BS201	AECC-2	Basic Computer Skills (Taught by: Computer Science)	2	2	10	40	-	50
BS202	FL-2B	English	4	4	20	80	-	100
BS203	SL-2B	Second Language	4	4	20	80	-	100
BS204	DSC-1B	Optional - I	4	4	20	80	25	125
		Optional - I Lab	1	3				
BS205	DSC-2B	Optional - II	4	4	20	80	25	125
		Optional - II Lab	1	3				
BS206	DSC-3B	Optional - III	4	4	20	80	25	125
		Optional - III LAB	1	3				
<b>TOTAL :</b>			<b>25</b>	<b>-</b>	<b>110</b>	<b>440</b>	<b>75</b>	<b>625</b>

**KAKATIYA UNIVERSITY, WARANGAL - 506 009**  
**B.Sc. PROGRAMME**  
**Under CBCS System**  
**Scheme wef A.Y: 2020-21**

**SECOND YEAR**

**SEMESTER - III**

Code	Course category	Title of the Paper	No. of Credits	Hrs PW	Max. Marks			Total Marks
					Internals Exam	End Exam	Lab	
BS 301	SEC-1	Fundamentals of Nano Technology (Taught by : Physics)	2	2	10	40	-	50
BS 302	SEC-2	Bio Statistics (Taught by : Statistics)	2	2	10	40	-	50
BS 303	FL-3 A	English	3	3	15	60	-	75
BS 304	SL-3 B	Second Language	3	3	15	60	-	75
BS 305	DSC-1C	Optional - I	4	4	20	80	25	125
		Optional - I Lab	1	3				
BS 306	DSC-2C	Optional - II	4	4	20	80	25	125
		Optional - II Lab	1	3				
BS 307	DSC-3C	Optional - III	4	4	20	80	25	125
		Optional - III Lab	1	3				
<b>TOTAL:</b>			<b>25</b>	<b>-</b>	<b>110</b>	<b>440</b>	<b>75</b>	<b>625</b>

**SEMESTER - IV**

Code	Course category	Title of the Paper	No. of Credits	Hrs PW	Max. Marks			Total Marks
					Internals Exam	End Exam	Lab	
BS401	SEC-3	Fundamentals of Python (Taught by: Computer Science)	2	2	10	40	-	50
BS402	SEC-4	Remedial Methods of Pollution - Drinking Water & Soil Fertility (Taught by: Chemistry)	2	2	10	40	-	50
BS403	FL-4 A	English	3	3	15	60	-	75
BS404	SL-4 B	Second Language	3	3	15	60	-	75
BS405	DSC-1D	Optional - I	4	4	20	80	25	125
		Optional - I Lab	1	3				
BS406	DSC-2D	Optional - II	4	4	20	80	25	125
		Optional - II Lab	1	3				
BS407	DSC-3D	Optional - III	4	4	20	80	25	125
		Optional - III Lab	1	3				
<b>TOTAL :</b>			<b>25</b>	<b>-</b>	<b>110</b>	<b>440</b>	<b>75</b>	<b>625</b>

**KAKATIYA UNIVERSITY, WARANGAL - 506 009**  
**B.Sc. PROGRAMME**  
**Under CBCS System**  
**Scheme wef A.Y: 2021-2022**

**THIRD YEAR**

**SEMESTER - V**

Code	Course Type	Title of the Paper	No. of Credits	Hrs PW	Max. Marks			Total Marks
					Internal Exam	End Exam	Lab	
BS 501	FL-5 A	English	3	3	15	60	-	75
BS 502	SL-5 B	Second Language	3	3	15	60	-	75
BS 503	G.E.	Water Resource Management (Taught by: Env Science Dept.)	4	4	20	80	-	100
BS 504	DSE-1E	Optional - I	4	4	20	80	25	125
		Optional - I Lab	1	3				
BS 505	DSE-2E	Optional - II	4	4	20	80	25	125
		Optional - II Lab	1	3				
BS 506	DSE-3E	Optional - III	4	4	20	80	25	125
		Optional - III Lab	1	3				
<b>TOTAL:</b>			<b>25</b>	<b>-</b>	<b>110</b>	<b>440</b>	<b>75</b>	<b>625</b>

**SEMESTER - VI**

Code	Course Type	Title of the Paper	No. of Credits	Hrs PW	Max. Marks			Total Marks
					Internal Exam	End Exam	Lab	
BS 601	FL-6A	English	3	3	15	60	-	75
BS 602	SL-6 B	Second Language	3	3	15	60	-	75
BS 603	P.W / Optional	Optional: Public Health & Hygiene (Taught by: Zoology / Botany / Biotechnology / Micro Biology)	4	4	20	80	-	100
BS 604	DSE-1F	Optional - I	4	4	20	80	25	125
		Optional - I Lab	1	3				
BS 605	DSE-2F	Optional - II	4	4	20	80	25	125
		Optional - II Lab	1	3				
BS 606	DSE-3F	Optional - III	4	4	20	80	25	125
		Optional - III Lab	1	3				
<b>TOTAL:</b>			<b>25</b>	<b>-</b>	<b>110</b>	<b>440</b>	<b>75</b>	<b>625</b>

NSS/NCC/Sports/Extra Curricular	Credits under Non – CGPA 6	Up to 6 (2 in each Year)	Up to 6 (2 in each Year)	Up to 6 (2 in each Year)
Summer internship	4	Up to 4 ( 2 in each, after I & II years	Up to 4 ( 2 in each, after I & II years	Up to 4 ( 2 in each, after I & II years

- F.L : First Language;  
 S.L : Second Language;  
 A.E.C.C: Ability Enhancement Compulsory Course;  
 S.E.C : Skill Enhancement Course;  
 D.S.C : Discipline Specific Course;  
 D.S.E : Discipline Specific Effective;  
 G.E : Generic Elective;  
 P.W : Project Work;



## B.Sc. PROGRAMME COURSE PATTERN UNDER CBCS W.E.F. 2019-20



**KAKATIYA UNIVERSITY, WARANGAL - 506 009**  
**B.Sc. PROGRAMME Under CBCS System**  
**Scheme w.e.f. A.Y: 2020-23**  
**B.Sc. DATA SCIENCE**

Year	Semester	Theory / Practical	Paper Title	Work Load (Hrs/Week)	# Credits	Marks
I	FIRST	Paper - I (DSC - A)	Fundamentals of Information Technology	4	4	100
		<i>Practical - 1</i>	Fundamentals of Information Technology (Lab)	3	1	25
	SECOND	Paper - II (DSC - B)	Problem solving and Python Programming	4	4	100
		<i>Practical - 2</i>	Problem solving and Python Programming (Lab)	3	1	25
II	THIRD	SEC - 1	University Specified	2	2	50
		SEC - 2	Mini Project	2	2	50
		Paper - III (DSC - C)	Data Engineering with Python	4	4	100
		<i>Practical - 3</i>	Data Engineering with Python (Lab)	3	1	25
	FOURTH	SEC - 3	University Specified	2	2	50
		SEC - 4	Mini Project	2	2	50
		Paper - IV (DSC - D)	Machine Learning	4	4	100
		<i>Practical - 4</i>	Machine Learning (Lab)	3	1	25
III	FIFTH	Paper - V (A) (DSE - A)	Natural Language Processing	4	4	100
		Paper - V (B) (DSE - A)	No SQL Data Bases	4	4	100
		<i>Practical - 5(A)</i>	Natural Language Processing (Lab)	3	1	25
		<i>Practical - 5(B)</i>	No SQL Data Bases (Lab)	3	1	25
		<i>Paper VI - GE</i>	<i>Data Structures and Algorithms</i>	4	4	100
	SIXTH	Paper - VII(A) (DSE - B)	Big Data	4	4	100
		Paper - VII (B) (DSE - B)	Deep Learning	4	4	100
		<i>Practical - 7(A)</i>	Big Data (Lab)	3	1	25
		<i>Practical - 7(B)</i>	Deep Learning (Lab)	3	1	25
		<i>Paper VIII (Project)</i>	<i>Major Project</i>	4	4	100

## BA PROGRAMME COURSE PATTERN UNDER CBCS WEF 2016-17

**KAKATIYA UNIVERSITY WARANGAL 506 009**

**Scheme for under Choice Based Credit System**

**With Effect from the Academic Year 2016-2019**

**BA PROGRAMME**

<b>FIRST YEAR - SEMESTER - I</b>							
Code	Course category	Title of the Paper	No. of credits	HPW	Max. Marks		Total Marks
					I A	End Exam	
B A 101	AECC-1	Environmental Studies	2	2	10	40	50
B A 102	CC-1A	ENGLISH	5	5	20	80	100
B A 103	CC-2A	SECOND LANGUAGE	5	5	20	80	100
B A 104	DSC-1A	OPTIONAL - I	5	5	20	80	100
B A 105	DSC-2A	OPTIONAL - II	5	5	20	80	100
B A 106	DSC-3A	OPTIONAL - III	5	5	20	80	100
Summary of Credits			27	27	110	440	550
<b>FIRST YEAR - SEMESTER - II</b>							
Code	Course category	Title of the Paper	No. of credits	HPW	Max. Marks		Total Marks
					I A	End Exam	
B A 201	AECC-2	GENDER SENSITISATION	2	2	10	40	50
B A 202	CC-1B	ENGLISH	5	5	20	80	100
B A 203	CC-2B	SECOND LANGUAGE	5	5	20	80	100
B A 204	DSC-1B	OPTIONAL - I	5	5	20	80	100
B A 205	DSC-2B	OPTIONAL - II	5	5	20	80	100
B A 206	DSC-3B	OPTIONAL - III	5	5	20	80	100
Summary of Credits			27	27	110	440	550
<b>SECOND YEAR - SEMESTER - III</b>							
Code	Course category	Title of the Paper	No. of credits	HPW	Max. Marks		Total Marks
					I A	End Exam	
B A 301	SCC-1	Communication Skills in English	2	2	10	40	50
B A 302	CC-1C	ENGLISH	5	5	20	80	100
B A 303	CC-2C	SECOND LANGUAGE	5	5	20	80	100
B A 304	DSC-1C	OPTIONAL - I	5	5	20	80	100
B A 305	DSC-2C	OPTIONAL - II	5	5	20	80	100
B A 306	DSC-3C	OPTIONAL - III	5	5	20	80	100
Summary of Credits			27	27	110	440	550
<b>SECOND YEAR - SEMESTER - IV</b>							
Code	Course category	Title of the Paper	No. of credits	HPW	Max. Marks		Total Marks
					I A	End Exam	
B A 401	SEC-2	Banking & Insurance	2	2	10	40	50
B A 402	CC-1D	ENGLISH	5	5	20	80	100
B A 403	CC-2D	SECOND LANGUAGE	5	5	20	80	100
B A 404	DSC-1D	OPTIONAL - I	5	5	20	80	100
B A 405	DSC-2D	OPTIONAL - II	5	5	20	80	100
B A 406	DSC-3D	OPTIONAL - III	5	5	20	80	100
Summary of Credits			27	27	110	440	550
AECC: Ability Enhancement Compulsory Course			SEC: Skill Enhancement Course;				
DSC: Discipline Specific Course			DSE: Discipline Specific Elective;				
GE: Generic Elective							

FINAL YEAR - SEMESTER – V							
Code	Course category	Title of the Paper	No. of credits	HPW	Max. Marks		Total Marks
					I A	End Exam	
B A 501	SEC-3	Telangana Heritage and Culture	2	2	10	40	50
B A 502	GE-1	Water Resource Management	2	2	10	40	50
B A 503	DSC-1E	OPTIONAL - I	4	4	20	80	100
B A 504	DSC-2E	OPTIONAL - II	4	4	20	80	100
B A 505	DSC-3E	OPTIONAL - III	4	4	20	80	100
B A 506	DSC-4E	OPTIONAL – I A	4	4	20	80	100
B A 507	DSC-5E	OPTIONAL – II B	4	4	20	80	100
B A 508	DSC-6E	OPTIONAL – III C	4	4	20	80	100
Summary of Credits			28	28	140	560	700
FINAL YEAR - SEMESTER - VI							
Code	Course category	Title of the Paper	No. of credits	HPW	Max. Marks		Total Marks
					I A	End Exam	
B A 501	SEC-4	Personality Development and Soft Skills	2	2	10	40	50
B A 502	GE-2	Public Health and Hygiene	2	2	10	40	50
B A 503	DSC-1F	OPTIONAL - I	4	4	20	80	100
B A 504	DSC-2F	OPTIONAL - II	4	4	20	80	100
B A 505	DSC-3F	OPTIONAL - III	4	4	20	80	100
B A 506	DSC-4F	OPTIONAL – I A	4	4	20	80	100
B A 507	DSC-5F	OPTIONAL – II B	4	4	20	80	100
B A 508	DSC-6F	OPTIONAL – III C	4	4	20	80	100
Summary of Credits			27	27	140	560	700
AECC: Ability Enhancement Compulsory Course			SEC: Skill Enhancement Course;				
DSC: Discipline Specific Course			DSE: Discipline Specific Elective;				
GE: Generic Elective:			2.Solid Waste Management				
<b>SEMESTER- I (B.Sc/B.A./B.Com) CBCS</b> <b><u>AECC-I. Environmental Studies</u></b>  <b>UNIT - I: Ecosystem, Biodiversity &amp; Natural Resources</b> 1. Definition, Scope & Importance of Environmental Studies. 2. Structure of Ecosystem – Abiotic & Biotic components Producers, Consumers, Decomposers, Food chains, Food webs, Ecological pyramids) 3. Function of an Ecosystem :Energy flow in the Ecosystem ( Single channel energy flow model ) 4. Definition of Biodiversity , Genetic, Species & Ecosystem diversity , Hot-spots of Biodiversity, Threats to Biodiversity, Conservation of Biodiversity (Insitu & Exsitu) 5. Renewable & Non-renewable resources, Brief account of Forest , Mineral & Energy (Solar Energy & Geothermal Energy) resources 6. Water Conservation, Rain water harvesting & Watershed management. <b>UNIT – II: Environmental Pollution, Global Issues &amp; Legislation</b> 1. Causes, Effects & Control measures of Air Pollution, Water Pollution			3. Global Warming & Ozone layer depletion				
			4. Ill – effects of Fire- works				
			5. Disaster management – floods, earthquakes & cyclones				
			6.Environmental legislation :- (a) Wild life Protection Act (b) Forest Act (c) Water Act (d) Air Act				
			7.Human Rights				
			8.Women and Child welfare				
			9.Role of Information technology in environment and human health				
			❖ <b>Field Study:</b> 1.Pond Eco system. 2.Forest Ecosystem				
			<b>REFERENCES:</b>				
			<ul style="list-style-type: none"> <li>• Environmental Studies - from crisis to cure –by R. Rajagopalan (Third edition) Oxford University Press.</li> <li>• Text book of Environmental Studies for undergraduate courses (second edition) by Erach Bharucha</li> <li>• A text book of Environmental Studies by Dr.D.K.Asthana and Dr. Meera Asthana</li> </ul>				

Department of Commerce & Business Management, Kakatiya University, Warangal - 506009  
**B.Com Common Core Syllabi under CBCS (wef 2016-17)**  
 STRUCTURE OF B.Com- DEGREE COURSE under CBCS for ALL STREAMS  
 (B.Com. B.Com (Computer Applications), B.Com (Taxation), B.Com (Tax Procedures & Practices), B.Com (Corporate Secretary ship),  
 B.Com (Advertising and Sales Management) and B.Com (Insurance))  
 w.e.f. ACADEMIC YEAR 2016-17

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FIRST YEAR -SEMESTER-I							
Code	Title of the Paper	Course Type	HPW	Credits	Exam Duration	Max. Marks	
BC101-Common to all	Communication	AEC-1	2	2			
BC102-Common to all	English	CC-1A	5	5			
BC103-Common to all	Second Language	CC-2A	5	5			
BC104-Common to all	Financial Accounting - I	DSC-1A	5L+1T+6	6			
BC105-Common to all	Business Economics	DSC-2A	6	6			
BC106-Common to all	Business Organization	DSC-3A	4	4			
BC107-Common to all	Information Technology	DSC-4A	4	4			
	Total			32			

FIRST YEAR -SEMESTER-II							
Code	Title of the Paper	Course Type	HPW	Credits	Exam Duration	Max. Marks	
BC201-Common to all	Environmental Science	AEC-2	2	2			
BC202-Common to all	English	CC-1B	5	5			
BC203-Common to all	Second Language	CC-2B	5	5			
BC204-Common to all	Financial Accounting - II	DSC-1B	5L+1T+6	6			
BC205-Common to all	Managerial Economics	DSC-2B	5L+1T+6	6			
BC206-Common to all	Principles of Management	DSC-3B	4	4			
BC207-Common to all	Foreign Trade	DSC-4B	4	4			
	Total			32			

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SECOND YEAR -SEMESTER-III							
Code	Title of the Paper	Course Type	HPW	Credits	Exam Duration	Max. Marks	
BC301-Common to all	A	SEC-1	2	2			
		OR					
BC301-Common to all	B	SEC-1	2	2			
BC302-Common to all	English	CC-1C	5	5			
BC303-Common to all	Second Language	CC-2C	5	5			
BC304-Common to all	Advanced Accounting	DSC-1C	5L+1T+6	6			
BC305-Common to all	Business Statistics-I	DSC-2C	6	6			
BC306-Common to all	Income Tax-I	DSC-3C	4	4			
BC307-Common to all except B.Com (CA)	Entrepreneurial Development & Business Ethics	DSC-4C	4	4			
	OR						
BC307- B.Com(CA)only	Programming with C	DSC-4C	4	4			
	Total			32			

SECOND YEAR -SEMESTER-IV							
Code	Title of the Paper	Course Type	HPW	Credits	Exam Duration	Max. Marks	
BC401-Common to all	C	SEC-2	2	2			
		OR					
BC401-Common to all	D	SEC-2	2	2			
BC402-Common to all	English	CC-1D	5	5			
BC403-Common to all	Second Language	CC-2D	5	5			
BC404-Common to all	Corporate Accounting	DSC-1D	5L+1T+6	6			
BC405-Common to all	Business Statistics-II	DSC-2D	6	6			
BC406-Common to all	Income Tax-II	DSC-3D	4	4			
BC407-Common to all	Auditing	DSC-4D	4	4			
	Total			32			

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THIRD YEAR -SEMESTER-V							
Code	Title of the Paper	Course	HPW	Credits	Exam	Max.	
BC501-Common to	E	SEC-3	2	2			
		OR					
BC501-Common to	F	SEC-3	4	2	2		
BC502-Common to		GE-1	5L+1T+6	6			
BC503-Common to	Cost Accounting	DSC-1E	6	6			
BC504-Common to	Business Law	DSC-2E	5	5			
BC505-Common to	Banking Theory & Practice	DSC-3E	4	4			
BC506-Common to	Computerized Accounting	DSC-4E	5	5			
		Elective-1					
BC507	Elective Group - A General	Financial Management	DSE-1A	4L+1T+5	5		
	Elective Group - B Finance	Financial Management	DSE-1A	4L+1T+5	5		
	Elective Group - C Accounting	Financial Statement Analysis	DSE-1A	4L+1T+5	5		
	B.Com (Computer Applications)	E-Commerce	DSE-1A	4L+1T+5	5		
	B.Com (Taxation)	Direct Tax - I	DSE-1A	4L+1T+5	5		
	B.Com (Tax Procedures & Practices)	Income Tax	DSE-1A	4L+1T+5	5		
	B.Com (Corporate Secretary ship)	Business Environment	DSE-1A	4L+1T+5	5		
	B.Com (Advertising and Sales Management)	Marketing Management	DSE-1A	4L+1T+5	5		
	B.Com (Insurance)	Principles and Practices of	DSE-1A	4L+1T+5	5		
		Elective-2					
	Elective Group - A General	Principles of Marketing	DSE-2A	4L+1T+5	5		
	Elective Group - B Finance	Financial Services	DSE-2A	4L+1T+5	5		
	Elective Group - C Accounting	Indian Accounting Standards	DSE-2A	4L+1T+5	5		
	B.Com (Computer Applications)	Objective Oriented Programming with C++	DSE-2A	4L+1T+5	5		
	B.Com (Taxation)	Indirect Taxes	DSE-2A	4L+1T+5	5		
	B.Com (Tax Procedures & Practices)	Income Tax Procedures and	DSE-2A	4L+1T+5	5		
	B.Com (Corporate Secretary ship)	Corporate Law & Practice - I	DSE-2A	4L+1T+5	5		
	B.Com (Advertising and Sales Management)	Advertising - I	DSE-2A	4L+1T+5	5		
	B.Com (Insurance)	Legal and managerial aspects of	DSE-2A	4L+1T+5	5		
	Total						

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## B.COM. PROGRAMME COURSE PATTERN UNDER CBCS WEF 2016-17

Department of Commerce & Business Management, Kakatiya University, Warangal - 506009

*B.Com Common Core Syllabi under CBCS (wef 2016-17)*

STRUCTURE OF B.Com- DECREE COURSE under CBCS for ALL STREAMS

[B.Com, B.Com (Computer Applications), B.Com (Taxation), B.Com (Tax Procedures & Practices), B.Com (Corporate Secretary ship),  
B.Com (Advertising and Sales Management) and B.Com (Insurance)]

w.e.f. ACADEMIC YEAR 2016-17

<b>FIRST YEAR - SEMESTER-I</b>								
Code	Title of the Paper	Course Type	HPW	Credits	Exam Duration	Internal Marks	External Marks	Max. Marks
BC101- Common to all	Environmental Science	AECC-1	2	2	3 Hrs	10	40	50
BC102- Common to all	English	CC-1A	5	5	3 Hrs	20	80	100
BC103- Common to all	Second Language	CC-2A	5	5	3 Hrs	20	80	100
BC104- Common to all	Financial Accounting - I	DSC-1A	5L+1T=6	6	3 Hrs	20	80	100
BC105- Common to all	Business Economics	DSC-2A	6	6	3 Hrs	20	80	100
BC106- Common to all	Business Organization	DSC-3A	4	4	3 Hrs	20	80	100
BC107- Common to all	Information Technology	DSC-4A	4	4	3 Hrs	20	50- 20 (Lab) Practical	100
Total				32				650
<b>FIRST YEAR - SEMESTER-II</b>								
Code	Title of the Paper	Course Type	HPW	Credits	Exam Duration	Internal Marks	External Marks	Max. Marks
BC201- Common to all	Gender Sensitization or Culture & Heritage	AECC-2	2	2	3 Hrs	10	40	50
BC202- Common to all	English	CC-1B	5	5	3 Hrs	20	80	100
BC203- Common to all	Second Language	CC-2B	5	5	3 Hrs	20	80	100
BC204- Common to all	Financial Accounting - II	DSC-1B	5L+1T=6	6	3 Hrs	20	80	100
BC205- Common to all	Managerial Economics	DSC-2B	5L+1T=6	6	3 Hrs	20	80	100
BC206- Common to all	Principles of Management	DSC-3B	4	4	3 Hrs	20	80	100
BC207- Common to all	Foreign Trade	DSC-4B	4	4	3 Hrs	20	80	100
Total				32				650

**SECOND YEAR - SEMESTER- III**

Code	Title of the Paper	Course Type	HPW	Credits	Exam Duration	Internal Marks	External Marks	Max. Marks
BC301-Common to all	A-Communication	SEC-1	2	2	3 Hrs	10	40	50
OR								
BC301-Common to all	B-Open Elective:	SEC-1	2	2	3 Hrs	10	40	50
BC302-Common to all	English	CC-1C	5	5	3 Hrs	20	80	100
BC303-Common to all	Second Language	CC-2C	5	5	3 Hrs	20	80	100
BC304-Common to all	Advanced Accounting	DSC-1C	5L+1T=6	6	3 Hrs	20	80	100
BC305-Common to all	Business Statistics-I	DSC-2C	6	6	3 Hrs	20	80	100
BC306-Common to all	Income Tax-I	DSC-3C	4	4	3 Hrs	20	80	100
BC307-Common to all except B.Com (CA)	Entrepreneurial Development & Business Ethics	DSC-4C	4	4	3 Hrs	20	80	100
OR								
BC307 B.Com(CA)only	Programming with C	DSC-4C	4	4	3 Hrs	20	60+ 20 Lab practical	100
	Total			32				650

**SECOND YEAR - SEMESTER- IV**

Code	Title of the Paper	Course Type	HPW	Credits	Exam Duration	Internal Marks	External Marks	Max. Marks
BC401-Common to all	C-Soft Skills	SEC-2	2	2	3 Hrs	10	40	50
OR								
BC401-Common to all	D-Open Elective:	SEC-2	2	2	3 Hrs	10	40	50
BC402-Common to all	English	CC-1D	5	5	3 Hrs	20	80	100
BC403-Common to all	Second Language	CC-2D	5	5	3 Hrs	20	80	100
BC404-Common to all	Corporate Accounting	DSC-1D	5L+1T=6	6	3 Hrs	20	80	100
BC405-Common to all	Business Statistics-II	DSC-2D	6	6	3 Hrs	20	80	100
BC406-Common to all	Income Tax-II	DSC-3D	4	4	3 Hrs	20	80	100
BC407-Common to all	Auditing	DSC-4D	4	4	3 Hrs	20	80	100

Total				32			650		
<b>THIRD YEAR - SEMESTER- V</b>									
Code	Title of the Paper	Course Type	HPW	Credits	Exam Duration	Internal Marks	External Marks	Max. Marks	
BC501-Common to all	E-Open Elective	SEC-3	2	2	3 Hrs	10	40	50	
OR									
BC501-Common to all	E-Open Elective	SEC-3	2	2	3 Hrs	10	40	50	
BC502- Common to all		OS-1	10+1=6	6	3 Hrs	20	80	100	
BC503- Common to all	Cost Accounting	DSC-1B	6	6	3 Hrs	20	80	100	
BC504- Common to all	Business Law	DSC-2E	5	5	3 Hrs	20	80	100	
BC505- Common to all	Banking Theory & Practice	DSC-3E	4	4	3 Hrs	20	80	100	
BC506- Common to all	Computerized Accounting	DSC-4E	5	5	3 Hrs	20	80	100	
<b>Elective - 1</b>									
BC507	Elective Group - A General	Financial Management	DSE-1A	4L+1T=5	5	3 Hrs	20	80	100
	Elective Group - B Finance	Financial Management	DSE-1A	4L+1T=5	5	3 Hrs	20	80	100
	Elective Group - C Accounting	Financial Statement Analysis	DSE-1A	4L+1T=5	5	3 Hrs	20	80	100
	B.Com (Computer Applications)	E-Commerce	DSE-1A	4L+1T=5	5	3 Hrs	20	60 + 20L	100
	B.Com (Taxation)	Direct Tax - I	DSE-1A	4L+1T=5	5	3 Hrs	20	80	100
	B.Com (Tax Procedures & Practices)	Income Tax	DSE-1A	4L+1T=5	5	3 Hrs	20	80	100
	B.Com (Corporate Securitization)	Business Environment	DSE-1A	4L+1T=5	5	3 Hrs			
	B.Com (Advertising and Sales Management)	Marketing Management	DSE-1A	4L+1T=5	5	3 Hrs	20	80	100
B.Com (Insurance)	Principles and Practices of Insurance	DSE-1A	4L+1T=5	5	3 Hrs	20	80	100	
<b>Elective - 2</b>									
BC508	Elective Group - A General	Principles of Marketing	DSE-2A	4L+1T=5	5	3 Hrs	20	80	100
	Elective Group - B Finance	Financial Services	DSE-2A	4L+1T=5	5	3 Hrs	20	80	100
	Elective Group - C Accounting	Indian Accounting Standards	DSE-2A	4L+1T=5	5	3 Hrs	20	80	100
	B.Com (Computer Applications)	Objective Oriented Programming with C++	DSE-2A	4L+1T=5	5	3 Hrs	20	60 + 20L	100
	B.Com (Taxation)	Indirect Taxes	DSE-2A	4L+1T=5	5	3 Hrs	20	80	100
	B.Com (Tax Procedures & Practices)	Income Tax Procedures and Practices - I	DSE-2A	4L+1T=5	5	3 Hrs	20	80	100
	B.Com (Corporate Securitization)	Corporate Law & Practice - I	DSE-2A	4L+1T=5	5	3 Hrs			
	B.Com (Advertising and Sales Management)	Advertising - I	DSE-2A	4L+1T=5	5	3 Hrs	20	80	100
B.Com (Insurance)	Legal and managerial aspects of Insurance	DSE-2A	4L+1T=5	5	3 Hrs	20	80	100	
<b>Total</b>								750	

**THIRD YEAR - SEMESTER- VI**

Code	Title of the Paper	Course Type	HPW	Credits	Exam Duration	Internal Marks	External Marks	Max. Marks	
BC600- Common to all	C	SPC-4	2	2	3 Hrs	10	40	50	
<b>OR</b>									
BC601- Common to all	B	SpC-4	2	2	3 Hrs	10	40	50	
BC602- Common to all		GE-2	5L+1T=6	6	3 Hrs	20	80	100	
BC603- Common to all	Managerial Accounting	DSC-1F	5L+1T=6	6	3 Hrs	20	80	100	
BC604- Common to all	Company Law	DSC-2F	5	5	3 Hrs	20	80	100	
BC605- Common to all	Financial Institutions & Markets	DSC-3F	5	5	3 Hrs	20	80	100	
BC606- Common to all	E-commerce Lab	DSC-4F	4	4	3 Hrs	20	80+20L	100	
<b>Elective - 3</b>									
<b>BC607</b>	Elective Group – A General	Human Resource Management	DSE-1A	4L+1T=5	5	3 Hrs	20	80	100
	Elective Group – B Finance	Investment Management	DSE-1B	4L+1T=5	5	3 Hrs	20	80	100
	Elective Group – C Accounting	Advanced Managerial Accounting	DSE-1B	4L+1T=5	5	3 Hrs	20	80	100
	B.Com (Computer Applications)	Web Technologies	DSE-1B	4L+1T=5	5	3 Hrs	20	80+20L	100
	B.Com (Taxation)	Direct Tax – 2	DSE-1B	4L+1T=5	5	3 Hrs	20	80	100
	B.Com (Tax Procedures & Practices)	Income Tax Procedures & Practices - 1	DSE-1B	4L+1T=5	5	3 Hrs	20	80	100
	B.Com (Corporate Secretaryship)	Securities Practice	DSE-1B	4L+1T=5	5	3 Hrs	20	80	100
	B.Com (Advertising and Sales Management)	Sales Promotion and Sales Management	DSE-1B	4L+1T=5	5	3 Hrs	20	80	100
B.Com (Insurance)	Fire and Marine Insurance	DSE-1B	4L+1T=5	5	3 Hrs	20	80	100	
<b>Elective - 4</b>									
<b>BC608</b>	Elective Group – A General	Tax Planning and Management	DSE-2A	4L+1T=5	5	3 Hrs	20	80	100
	Elective Group – B Finance	International Finance	DSE-2B	4L+1T=5	5	3 Hrs	20	80	100
	Elective Group – C Accounting	Advanced Corporate Accounting	DSE-2B	4L+1T=5	5	3 Hrs	20	80	100
	B.Com (Computer Applications)	Relational Data Base Management	DSE-2B	4L+1T=5	5	3 Hrs	20	80+20L	100
	B.Com (Taxation)	Tax Planning and Management	DSE-2B	4L+1T=5	5	3 Hrs	20	80	100
	B.Com (Tax Procedures & Practices)	Other Taxes	DSE-2B	4L+1T=5	5	3 Hrs	20	80	100
	B.Com (Corporate Secretaryship)	Corporate Law and Practice - 2	DSE-2B	4L+1T=5	5	3 Hrs	20	80	100
	B.Com (Advertising and Sales Management)	Advertising – 2	DSE-2B	4L+1T=5	5	3 Hrs	20	80	100
B.Com (Insurance)	Property and Liability Insurance	DSE-2B	4L+1T=5	5	3 Hrs	20	80	100	
<b>Total</b>								750	



## B.Sc. PROGRAMME COURSE PATTERN UNDER CBCS WEF 2016-17

**KAKATIYA UNIVERSITY WARANGAL 506 009**

**Scheme for under Choice Based Credit System**

**With Effect from the Academic Year 2016-2019**

**B.Sc. PROGRAMME**

### FIRST YEAR

#### SEMESTER - I

Code	Course category	Title of the Paper	No. of Credits	HPW	Max. Marks			Total Marks
					I.A	End Exam	Lab Practical	
BS101	AECC-1	ENVIRONMENTAL STUDIES	2	2	10	40	-	50
BS102	CC-1A	ENGLISH	5	5	20	80	-	100
BS103	CC-2A	SECOND LANGUAGE	5	5	20	80	-	100
BS104	DSC-1A	OPTIONAL - I	4	4	20	80	25	125
		OPTIONAL – I LAB	1	2				
BS105	DSC-2A	OPTIONAL – II	4	4	20	80	25	125
		OPTIONAL – II LAB	1	2				
BS106	DSC-3A	OPTIONAL – III	4	4	20	80	25	125
		OPTIONAL – III LAB	1	2				
Summary of Credits			27	-	-	-	-	625

#### SEMESTER - II

Code	Course category	Title of the Paper	No. of Credits	HPW	Max. Marks			Total Marks
					I.A	End Exam	Lab Practical	
BS201	AECC-2	GENDER SENSITISATION	2	2	10	40	-	50
BS202	CC-1B	ENGLISH	5	5	20	80	-	100
BS203	CC-2B	SECOND LANGUAGE	5	5	20	80	-	100
BS204	DSC-1B	OPTIONAL - I	4	4	20	80	25	125
		OPTIONAL – I LAB	1	2				
BS205	DSC-2B	OPTIONAL – II	4	4	20	80	25	125
		OPTIONAL – II LAB	1	2				
BS206	DSC-3B	OPTIONAL – III	4	4	20	80	25	125
		OPTIONAL – III LAB	1	2				
Summary of Credits			27	-	-	-	-	625

**AECC:** Ability Enhancement Compulsory Course;

**SEC:** Skill Enhancement Course;

**DSC:** Discipline Specific Course;

**DSE:** Discipline Specific Effective;

**GE:** Generic Elective;

**KAKATIYA UNIVERSITY WARANGAL 506 009**

**Scheme for under Choice Based Credit System**

**With Effect from the Academic Year 2016-2019**

**B.S.C. PROGRAMME**

**SECOND YEAR**

**SEMESTER - III**

Code	Course category	Title of the Paper	No. of Credits	HPW	Max. Marks			Total Marks
					I.A	End Exam	Lab Practical	
BS 301	SEC-1	Computer Basics and Automation	2	2	10	40	-	50
BS 302	CC-1C	ENGLISH	5	5	20	80	-	100
BS 303	CC-2C	SECOND LANGUAGE	5	5	20	80	-	100
BS 304	DSC-1C	OPTIONAL - I	4	4	20	80	25	125
		OPTIONAL - I LAB	1	2				
BS 305	DSC-2C	OPTIONAL - II	4	4	20	80	25	125
		OPTIONAL - II LAB	1	2				
BS 306	DSC-3C	OPTIONAL - III	4	4	20	80	25	125
		OPTIONAL - III LAB	1	2				
Summary of Credits			27	-	-	-	-	625

**SEMESTER - IV**

Code	Course category	Title of the Paper	No. of Credits	HPW	Max. Marks			Total Marks
					I.A	End Exam	Lab Practical	
BS401	SEC-2	Multimedia Application	2	2	10	40	-	50
BS402	CC-1D	ENGLISH	5	5	20	80	-	100
BS403	CC-2D	SECOND LANGUAGE	5	5	20	80	-	100
BS404	DSC-1D	OPTIONAL - I	4	4	20	80	25	125
		OPTIONAL - I LAB	1	2				
BS405	DSC-2D	OPTIONAL - II	4	4	20	80	25	125
		OPTIONAL - II LAB	1	2				
BS406	DSC-3D	OPTIONAL - III	4	4	20	80	25	125
		OPTIONAL - III LAB	1	2				
Summary of Credits			27	-	-	-	-	625

**AECC:** Ability Enhancement Compulsory Course;

**SEC:** Skill Enhancement Course;

**DSC:** Discipline Specific Course;

**DSE:** Discipline Specific Effective;

**GE:** Generic Elective;

**KAKATIYA UNIVERSITY WARANGAL 506 009**

**Scheme for under Choice Based Credit System**

**With Effect from the Academic Year 2016-2019**

**B.S.C. PROGRAMME**

**FINAL YEAR**

**SEMESTER - V**

Code	Course Type	Title of the Paper	No. of Credits	HPW	Max. Marks			Total Marks
					I.A	End Exam	Total	
BS 501	SEC-3	Verbal Reasoning for Aptitude Test (Interdisciplinary to be offered to all Science departments.)	2	2	10	40	50	50
BS 502	GE-I	Public Health and Hygiene (Interdisciplinary to be offered to all Science departments.)	2	2	10	40	50	50
BS 503	DSC-1E	OPTIONAL – I	3	3	20	80	100	125
		OPTIONAL – I LAB	1	2	-	25	25	
BS 504	DSC-2E	OPTIONAL – II	3	3	20	80	100	125
		OPTIONAL – II LAB	1	2	-	25	25	
BS505	DSC-3E	OPTIONAL – III	3	3	20	80	100	125
		OPTIONAL – III LAB	1	2	-	25	25	
BS506	DSE-1E	OPTIONAL – I Elective (A/B/C)	3	3	20	80	100	125
		OPTIONAL – I Elective (A/B/C) LAB	1	2	-	25	25	
BS507	DSE-2E	OPTIONAL – II Elective (A/B/C)	3	3	20	80	100	125
		OPTIONAL – II Elective (A/B/C) LAB	1	2	-	25	25	
BS508	DSE-3E	OPTIONAL – III Elective (A/B/C)	3	3	20	80	100	125
		OPTIONAL – III Elective (A/B/C) LAB	1	2	-	25	25	
Summary of Credits			28	34	-	-	-	850

\*DSC: Discipline Specific Course (Core)

\*SEC: Skill Enhancement Courses

\*DSE: Discipline Specific Elective (Elective).

**KAKATIYA UNIVERSITY WARANGAL 506 009**

**Scheme for under Choice Based Credit System**

~~With Effect from the Academic Year 2016-2019~~

**B.S.C. PROGRAMME**

**FINAL YEAR**

**SEMESTER - VI**

Code	Course Type	Title of the Paper	No. of Credits	HPW	Max. Marks			Total Marks
					I.A	End Exam	Total	
BS 601	SEC-4	<b>Quantitative Aptitude Test</b> (Interdisciplinary to be offered to all Science departments.)	2	2	10	40	50	50
BS 602	GE-II	<b>Water Resources Management</b> (Interdisciplinary to be offered to all Science departments.)	2	2	10	40	50	50
BS 603	DSC-1F	<b>OPTIONAL - I</b>	3	3	20	80	100	125
		<b>OPTIONAL - I LAB</b>	1	2	-	25	25	
BS 604	DSC-2F	<b>OPTIONAL - II</b>	3	4	20	80	100	125
		<b>OPTIONAL - II LAB</b>	1	2	-	25	25	
BS 605	DSC-3F	<b>OPTIONAL - III</b>	3	3	20	80	100	125
		<b>OPTIONAL - III LAB</b>	1	2	-	25	25	
BS 606	DSE-1F	<b>OPTIONAL - I Elective (A/B/C)</b>	3	3	20	80	100	125
		<b>OPTIONAL - I Elective (A/B/C) LAB</b>	1	2	-	25	25	
BS 607	DSE-2F	<b>OPTIONAL - II Elective (A/B/C)</b>	3	3	20	80	100	125
		<b>OPTIONAL - II Elective (A/B/C) LAB</b>	1	2	-	25	25	
BS 608	DSE-3F	<b>OPTIONAL - III Elective (A/B/C)</b>	3	3	20	80	100	125
		<b>OPTIONAL - III Elective (A/B/C) LAB</b>	1	2	-	25	25	
		<b>Summary of Credits</b>	<b>28</b>	<b>34</b>	-	-	-	<b>850</b>

\*DSC: Discipline Specific Course (Core)

\*SEC: Skill Enhancement Courses

\*DSE: Discipline Specific Elective (Elective).

**Course Structure of B.Sc (Botany) Programme under CBCS pattern  
w.e.f. Academic Year 2016-17**

PROPOSED SCHEME FOR B.Sc PROGRAMME UNDER CHOICE BASED CREDIT SYSTEM				
<i>FIRST YEAR SEMESTER-I</i>				
Code	Course Title	Course Type	HPW	Credits
BS 104	Optional-I	D.Sc-I	4T 2P=6	4+1=5
Paper-I Microbial Diversity of Lower Plants				
<i>SEMESTER-II</i>				
Code	Course Title	Course Type	HPW	Credits
BS 201	Environmental Studies	A.ECC-2	2	2
BS204	Optional-I	DSC-1B	4T+2P=6	4+1=5
Paper-II Bryophytes Pteridophytes, Gymnosperms and Palaeobotany				
<i>SECOND YEAR SEMESTER-III</i>				
Code	Course Title	Course Type	HPW	Credits
BS304	Optional-I	DSC-1C	4T+2P=6	4+1=5
Paper-III Taxonomy of Angiosperms and Medicinal Botany				
<i>SEMESTER-IV</i>				
Code	Course Title	Course Type	HPW	Credits
BS404 ✓	Optional -I	DSC-1D	4T+2P=6	4+1=5
Plant Anatomy, Embryology and Palynology				
<i>THIRD YEAR SEMESTER-V</i>				
Code	Course Title	Course Type	HPW	Credits
BS 503	Optional-I	DSC -1E	3T+2P=5	3+1=4
Paper-V: Cell Biology and Genetics				
BS 506	Optional I A/B	DSE-III	3T+2P=5	3+1=4
Elective-I Ecology and Biodiversity / Elective II: Horticulture				
<i>SEMESTER-VI</i>				
Code	Course Title	Course Type	HPW	Credits
BS 603	Optional-I	DSC -1F	3T+2P=5	3+1=4
Paper-VIII : Plant Physiology				
BS 606	Optional A/B/	DSE -IV	3T+2P=5	3+1=4
Elective III Tissue Culture and Biotechnology / Elective-IV: Seed Technology				

A.ECC: Ability Enhancement Compulsory Course; DSC: Discipline Specific Course;  
DSE: Discipline Specific Elective.

**Scheme of Instruction, Credit Structure and Examination for  
B.Sc. Zoology from 2016-17**

Code	Semester	Course category	Title of the Paper	No. of Credits	HPW	Max. Marks			Total Marks
						I.A	End Exam	Total	
<b>FIRST YEAR</b>									
BS104	I	DSC-1A (Theory)	Animal Diversity- Invertebrates	4	4	20	80	100	150
		DSC-1A (Practical)		2	2	-	50	50	
BS204	II	DSC-1B (Theory)	Ecology, Zoogeography and Animal Behavior	4	4	20	80	100	150
		DSC-1B (Practical)		2	2	-	50	50	
<b>SECOND YEAR</b>									
BS304	III	DSC-1C (Theory)	Animal Diversity- Vertebrates and Developmental Biology	4	4	20	80	100	150
		DSC-1C (Practical)		2	2	-	50	50	
BS404	IV	DSC-1D (Theory)	Cell and Molecular Biology, Genetics and Evolution	4	4	20	80	100	150
		DSC-1D (Practical)		2	2	-	50	50	
<b>THIRD YEAR</b>									
BS503	V	DSC-1E (Theory)	Physiology and Biochemistry	3	3	15	60	75	100
		DSC-1E (Practical)		1	1	-	25	25	
BS506		DSC-1E (Theory)	Applied Zoology or Food and Nutrition or Bioinstrumentation	3	3	15	60	75	100
		DSC-1E (Practical)		1	1	-	25	25	
BS603	VI	DSC-1F (Theory)	Immunology and Animal Biotechnology	3	3	15	60	75	100
		DSC-1F (Practical)		1	1	-	25	25	
BS606		DSC-1F (Theory)	Public Health and Hygiene or Aquatic Biology or Sericulture	3	3	15	60	75	100
		DSC-1F (Practical)		1	1	-	25	25	
<b>Summary of Credits</b>				<b>50</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1000</b>

**Course Structure of B.Sc (Physics) Programme under CBCS pattern  
w.e.f. Academic Year 2016-17**

**B.Sc. (Physics) Syllabus, Kakatiya University, Warangal  
CBCS pattern in Semester System (w. e. from 2016-2017)**

**KAKATIYA UNIVERSITY, WARANGAL  
SCHEME FOR CHOICE BASED CREDIT SYSTEM  
B.Sc. (PHYSICS)  
SEMESTER PATTERN**

YEAR	SEM	COURSE (PAPER) TITLE WITH CODE	COURSE TYPE*	HRS/WEEK	CREDITS	MARKS	
						Internal Assessment	SEM End Exam
F I R S T	I	101: Mechanics	DSC-1	4	4	20	80
		101(P): Mechanics Lab (Pr)	DSC-1(P)	3	1	-	25
	II	201: Waves and Oscillations	DSC-2	4	4	20	80
		201(P): Waves and Oscillations Lab (Pr)	DSC-2(P)	3	1	-	25
S E C O N D	III	301: Thermal Physics	DSC-3	4	4	20	80
		301(P): Thermal Physics Lab (Pr)	DSC-3(P)	3	1	-	25
	IV	401: Optics	DSC-4	4	4	20	80
		401(P): Optics Lab (Pr)	DSC-4(P)	3	1	-	25
T H I R D	V	501: Electromagnetism	DSC-5	3	3	15	60
		501(P): Electromagnetism Lab (Pr)	DSC-5(P)	3	1	-	25
		502: Elective (Theory) – 1 (A/B/C) A. Solid state physics B. Modern Optics	DSE-1	3	3	15	60
		502(P): Elective (Practical) – 1 (A/B/C) A. Solid state physics Lab B. Modern Optics Lab	DSE-1(P)	3	1	-	25
	VI	601: Modern Physics	DSC-6	3	3	15	60
		601(P): Modern Physics Lab (Pr)	DSC-6(P)	3	1	-	25
		602: Elective (Theory) – 2 (A/B/C) A. Basic Electronics B. Physics of Semiconductor devices	DSE-2	3	3	15	60
		602(P): Elective (Practical) – 2 (A/B/C) A. Basic Electronics Lab B. Physics of Semiconductor devices Lab	DSE-2(P)	3	1	-	25
		<b>Total</b>			<b>36</b>	<b>140</b>	<b>760</b>
						<b>Grand Total : 900</b>	

\*DSC: Discipline Specific Course (Core)    DSE: Discipline Specific Elective (Elective)



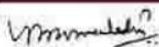
Dr. B. Venkatram Reddy  
Chairman, Board of Studies in Physics, KU, Wgl  
Date: 24<sup>th</sup> Aug, 2016 & 5<sup>th</sup> June, 2017

**Course Structure of B.Sc (Chemistry) Programme under CBCS pattern  
w.e.f. Academic Year 2016-17**


**Proposed Scheme for Choice Based Credit System in B.Sc. Chemistry**

Semester	Title	Course type	Hrs/week	No. of Credits	Main exam	Internal exam	Total
I	Chemistry-I (T)	DSC-I	4	4	80	20	100
	Chemistry -I (P)	DSC-1A	2	1	25	-----	25
II	Chemistry-II (T)	DSC-II	4	4	80	20	100
	Chemistry -II (P)	DSC-IIA	2	1	25	-----	25
III	Chemistry-III (T)	DSC- III	4	4	80	20	100
	Chemistry-III (P)	DSC-III A	2	1	25	-----	25
IV	Chemistry-IV (T)	DSC-IV	4	4	80	20	100
	Chemistry-IV (P)	DSC-IVA	2	1	25	-----	25
V	Chemistry-V (T)	DSC-V	3	3	60	15	75
	Chemistry -V (P)	DSC-VA	2	1	25	---	25
	Elective-I (T) A/B/C	DSE-I (T)	3	3	60	15	75
	Elective -I (P)	DSE-I (P)	2	1	25	--	25
VI	Chemistry-VI (T)	DSC-VI	3/3/3	3	60	15	75
	Chemistry -VI (P)	DSC-VI A	2/2/2	1	25	----	25
	Elective -II (T) A/B/C	DSE-II (T)	3/3/3	3	60	15	75
	Elective -II (P)	DSE-II (P)	2/2/2	1	25	-	25
<b>Total</b>			<b>64</b>	<b>36</b>			<b>900</b>

(T) = Theory; (P) = practical; DSC = Discipline specific course (Core subject); DSE = Discipline Specific Elective (Elective from core Discipline)



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Prof. Gade Dayakar, Chairperson, BOS in Chemistry, KU,

Page 2



**Course Structure of B.Sc (Computer Science) Programme under CBCS pattern  
w.e.f. Academic Year 2016-17**

**B.Sc (Computer Science)  
CBCS pattern in Semester System (w. e. from 2016-2017)**

Code	Semester	Course category	Title of the Paper	No. of Credits	HPW	Max. Marks			Total Marks
						I.A	End Exam	Total	
<b>FIRST YEAR</b>									
BS106	I	DSC-1A (Theory)	Object Oriented Programming with C++	4	4	20	80	100	125
		DSC-1A (Practical)		1	2	-	25	25	
BS206	II	DSC-1B (Theory)	Data Structures and File Processing	4	4	20	80	100	125
		DSC-1B (Practical)		1	2	-	25	25	
<b>SECOND YEAR</b>									
BS306	III	DSC-1C (Theory)	Database Management System	4	4	20	80	100	125
		DSC-1C (Practical)		1	2	-	25	25	
BS406	IV	DSC-1D (Theory)	Design and Analysis of Algorithms	4	4	20	80	100	125
		DSC-1D (Practical)		1	2	-	25	25	
<b>THRID YEAR</b>									
BS505	V	DSC-1E (Theory)	Web programming	3	3	15	60	75	100
		DSC-1E (Practical)		1	2	-	25	25	
BS508		DSC-1E (Theory)	Elective 1 (A/B/C) A) Operating Systems B) Data Mining C) Cryptography	3	3	15	60	75	100
		DSC-1E (Practical)		1	2	-	25	25	
BS605	VI	DSC-1F (Theory)	Visual Programming	3	3	15	60	75	100
		DSC-1F (Practical)		1	2	-	25	25	
BS608		DSC-1F (Theory)	Elective 2 (A/B/C) A) Multimedia Systems & Applications B) Computer Graphics C) Computer Networks	3	3	15	60	75	100
		DSC-1F (Practical)		1	2	-	25	25	
<b>Summary of Credits</b>				36	-	-	-	-	900

Note:- Skill Enhancement Courses (SEC1, SEC2, SEC3 and SEC4) will be introduce later


**Course Structure of B.Sc (Bio-Technology) Programme under CBCS pattern  
w.e.f. Academic Year 2016-17**

<b>CURRICULUM FOR BIOTECHNOLOGY</b>									
<b>IN UNDER GRADUATE DEGREE PROGRAMME</b>									
<b>CBCS SYLLABUS SCHEDULE 2016 – 2017</b>									
Sl. No.	Semester	Course category	Title of the Paper	No. of Credits	HPW	Max. Marks			Total Marks
						LA	End Exam	Total	
<b>FIRST YEAR</b>									
BS104	I	DSC-1A (Theory)	Cell Biology & Genetics	4	4	20	80	100	125
		DSC-1A (Practical)		1	2	-	25	25	
BS204	II	DSC-1B (Theory)	Nucleic Acids- Biostatistics - Bioinformatics	4	4	20	80	100	125
		DSC-1B (Practical)		1	2	-	25	25	
<b>SECOND YEAR</b>									
BS304	III	DSC-1C (Theory)	Biological Chemistry	4	4	20	80	100	125
		DSC-1C (Practical)		1	2	-	25	25	
		SEC - I	Computer Basics and Automation	2	2	-	50	50	50
BS404	IV	DSC-1D (Theory)	Microbiology and Immunology	4	4	20	80	100	125
		DSC-1D (Practical)		1	2	-	25	25	
		SEC - II	Multimedia and Applications	2	2	-	50	50	50
<b>THIRD YEAR</b>									
BS502	V	GE-1 (Theory)	Public Health and Hygiene (Interdisciplinary)	4	4	-	100	100	150
		GE-1		-	-	50	-	50	
BS503	V	DSC-1E (Theory)	Molecular Biology & rDNA Technology	3	3	15	60	75	100
		DSC-1E (Practical)		1	2	-	25	25	
BS506	V	DSC-1F (Theory)	Subject Electives: A- Plant Biotechnology or B- Medical Biotechnology	3	3	15	60	75	100
		DSC-1F (Practical)		1	2	-	25	25	
		SEC - III	Verbal Reasoning For Aptitude Test	2	2	-	50	50	50
BS602	VI	GE-2 (Theory)	Water Resources Management (Interdisciplinary)	4	4	-	100	100	150
		GE-2		-	-	50	-	50	
BS603	VI	DSC-1G (Theory)	Microbial Biotechnology	3	3	15	60	75	100
		DSC-1G (Practical)		1	1	-	25	25	
BS606	VI	DSC-1H (Theory)	Subject Electives: A-Animal Biotechnology or B- Environmental Biotechnology	3	3	15	60	75	100
		DSC-1H (Practical)		1	1	-	25	25	
BS601	VI	SEC- IV	Quantitative Aptitude Test	2	2	-	50	50	50
Summary of Credits				56		-	-	-	1400

**Course Structure of B.Sc (Microbiology) Programme under CBCS pattern  
w.e.f. Academic Year 2016-17**

Faculty of Science				
B. Sc. MICROBIOLOGY				
<b>SEMESTER-WISE SYLLABUS IN CBCS PATTERN</b>				
(Medium of Instruction and Examination shall be only in English)				
Code	Course Title	Course Type	HPW	Credits
<b>FIRST YEAR SEMESTER -I</b>				
BS104	Introductory Microbiology	DSC-1A	4T + 2P = 6	4+1 = 5
<b>SEMESTER -II</b>				
BS204	Bacteriology	DSC-1B	4T + 2P = 6	4+1 = 5
<b>SECOND YEAR SEMESTER -III</b>				
BS304	Microbial Physiology	DSC-1C	4T + 2P = 6	4+1 = 5
<b>SEMESTER -IV</b>				
BS404	Microbial Genetics	DSC-1D	4T + 2P = 6	4+1 = 5
<b>THIRD YEAR SEMESTER -V</b>				
BS503	Basics of Immunology	DSC-1E	3T + 2P = 5	3+1 = 4
BS505	Instrumentation and Biotechniques	DSE-1E/A	3T + 2P = 5	3+1 = 4
BS506	Biosafety and Intellectual property rights (IPR)	DSE-1E/B	3T + 2P = 5	3+1 = 4
<b>SEMESTER -VI</b>				
BS603	Medical Microbiology	DSC-1F	3T + 2P = 5	3+1 = 4
BS605	Cell Biology	DSE-1F/A	3T + 2P = 5	3+1 = 4
BS606	Industrial Microbiology	DSE-1F/B	3T + 2P = 5	3+1 = 4

DSC: Discipline Specific Course (Core)      DSE: Discipline Specific Elective (Elective)



**Course Structure of B.Sc (Statistics) Programme under CBCS pattern  
w.e.f. Academic Year 2016-17**

**KAKATIYA UNIVERSITY, WARANGAL**

**B.Sc. (STATISTICS)  
Semester Pattern Syllabus (CBCS)  
w.e.f. Academic Year: 2016-17  
(With Mathematics Combination)**

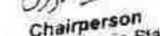
YEAR	SEMESTER	THEORY/ PRACTICAL	Paper Title	WORK LOAD (Hr/Week)	#CREDITS	MARKS
I	FIRST	Paper-I	Descriptive Statistics and probability	4	4	100
		Practical-1	Descriptive Statistics and probability	2	1	50
	SECOND	Paper-II	Probability distributions	4	4	100
		Practical-2	Probability distributions	2	1	50
II	THIRD	(*SEC-1)	Computation using MS-Excel	2	2	50
		Paper-III	Statistical Methods	4	4	100
		Practical-3	Statistical Methods	2	1	50
	FOURTH	(*SEC-2)	Statistical Computation Using C- Programming	2	2	50
		Paper-IV	Statistical Inference	4	4	100
		Practical-4	Statistical Inference	2	1	50
III	FIFTH	(*SEC-3)	Statistical Computation Using SPSS	2	2	50
		(**) GE-1	Basic Statistics-1	2	2	50
		Paper-V	Applied Statistics-1	3	3	75
		Practical-5	Applied Statistics-1	2	1	50
		Paper-VI	Elective-I(A): SQC and LPP Elective-I(B): Bio Statistics-1 Elective-I(C): Actuarial Statistics-1	3	3	75
		Practical-6	Practical of selected Elective-I (A/B/C)	2	1	50
	SIXTH	(*SEC-4)	Data Mining	2	2	50
		(**) GE-2	Basic Statistics-2	2	2	50
		Paper-VII	Applied Statistics-2	3	3	75
		Practical-7	Applied Statistics-2	2	1	50
	Paper-VIII	Elective-II(A): Operations Research Elective-II(B): Bio Statistics-2 Elective-II(C): Actuarial Statistics-2	3	3	75	
	Practical-8	Practical of selected Elective-II (A/B/C)	2	1	50	

	Sem-I	Sem-II	Sem-III	Sem-IV	Sem-V	Sem-VI	Total
No. of Credits:	4+1=5	4+1=5	4+1+2=7	4+1+2=7	2+3+1+3+1=10	2+3+1+3+1=10	44
Marks:	150	150	200	200	300	300	1300
	Total work load of (Sem-I, Sem-III, Sem-V):						26
	Total work load of (Sem-II, Sem-IV, Sem-VI):						26

(\*SEC-1,2,3,4: Skill Enhancement Courses for Statistics students (Theory exam only).

(\*\*) GE-1, GE-2: For other than Statistics Course students (Theory exam only)

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**Chairperson**  
 Board of Studies in Statistics  
 Kakatiya University  
 Warangal - 506 009

**Course Structure of B.A.(HRM) Programme under CBCS pattern  
w.e.f. Academic Year 2017-18**

Department of Public Administration & HRM  
Kakatiya University, Warangal  
Model Scheme of Instruction and Examination  
B.A HUMAN RESOURCE MANAGEMENT (Regular)  
Choice Based Credit System (CBCS) Syllabus - w.e.f. 2017-2018

Year	Semester	DSC/GE/ DSE/SEC	Paper	Title	Credits	Hours	Exam Duration	Internal Marks	External Marks	Max. Marks
I	I	DSC	Paper - I	Management	5	5	3 Hrs.	20	80	100
	II	DSC	Paper - II	Organizational Behaviour	5	5	3 Hrs.	20	80	100
II	III	DSC	Paper - III	Human Resource Management	5	5	3 Hrs.	20	80	100
	IV	SEC	Paper - I	Communication Skill in English	2	2	2 Hrs.	10	40	50
		DSC	Paper - IV	Compensation Management	5	5	3 Hrs.	20	80	100
		SEC	Paper-II	Banking & Insurance	2	2	2 Hrs.	10	40	50
		DSC	Paper - V	Industrial Relations	4	4	3 Hrs.	20	80	100
III	V	DSE	Paper - I A	Information Technology	4	4	3 Hrs.	20	80	100
		DSE	Paper - I B	Employee Welfare						
		DSE	Paper - I C	Entrepreneurship Development						
		GE	Paper - I	Fundamentals of Office Management						
	SEC	Paper-III	Telangana Heritage and Culture	2	2	2 Hrs.	10	40	50	
VI	VII	DSC	Paper - VI	Industrial Laws	4	4	3 Hrs.	20	80	100
		DSE	Paper - II A	Social Security Legislation	4	4	3 Hrs.	20	80	100
	DSE	Paper - II B	Human Resource Information Systems							
	DSE	Paper - II C	Financial Management							
	VIII	VIII	GE	Paper - II	Management	5-1	5	3 Hrs.	20	80
SEC			Paper - IV	Personality Development & Soft Skills	2	2	2 Hrs.	10	40	50

DSC- (Discipline Specific Course), SEC- (Skill Enhancement Course) & DSE - (Discipline Specific Elective) for Students of HRM.

GE- (Generic Elective) or Inter-Disciplinary Course for Students of Social Sciences other than History (5 Credits + 1 Tutorial).

Prof. Yashraj Rao

Chairman, BOS Dept of  
Public Administration & HRM

**Course Structure of B.A. (PUBLIC ADMINISTRATION) Programme under CBCS pattern  
w.e.f. Academic Year 2017-18**

Department of Public Administration & HRM  
Kakatiya University, Warangal  
**Model Scheme of Instruction and Examination**  
B.A PUBLIC ADMINISTRATION  
Choice Based Credit System (CBCS) Syllabus - w.e.f. 2017-2018

Year	Semester	DSC/GE/ DSE/SEC	Paper	Title	Credits	Hours	Exam Duration	Internal Marks	External Marks	Max. Marks
I	I	DSC	Paper - I	Basics of Public Administration	5	5	3 Hrs	20	80	100
	II	DSC	Paper - II	Development Dynamics and Emerging Trends	5	5	3 Hrs	20	80	100
II	III	DSC	Paper-III	Union Administration	5	5	3 Hrs	20	80	100
		SEC	Paper - I	<i>Communication Skills in English</i>	2	2	2 Hrs	10	40	50
	IV	DSC	Paper - IV	State Administration and Emerging Issues	5	5	3 Hrs	20	80	100
		SEC	Paper-II	<i>Banking &amp; Insurance</i>	2	2	2 Hrs	10	40	50
III	V	DSC	Paper - V	Human Resources Management	4	4	3 Hrs	20	80	100
		DSE	Paper - I A	Rural Local Governance	4	4	3 Hrs	20	80	100
		DSE	Paper - I B	Urban Local Governance						
		DSE	Paper - I C	Entrepreneurship Development						
	GE	Paper - I	Fundamentals of Office Management	5+1	6	3 Hrs	20	80	100	
	SEC	Paper-III	<i>Telangana Heritage and Culture</i>	2	2	2 Hrs	10	40	50	
	VI	DSC	Paper - VI	Financial and Material Resources Management	4	4	3 Hrs	20	80	100
		DSE	Paper - IIA	E-Governance: Concepts, Institutions and Methods	4	4	3 Hrs	20	80	100
		DSE	Paper - II B	Public Office Administration						
		DSE	Paper - II C	Financial Management						
GE		Paper - II	Management	5+1	6	3 Hrs	20	80	100	
SEC		Paper - IV	<i>Personality Development &amp; Soft Skills</i>	2	2	2 Hrs	10	40	50	

DSC- (Discipline Specific Course), SEC (Skill Enhancement Course) & DSE (Discipline Specific Elective) for Students of History.

GE- (Generic Elective) or Inter-Disciplinary Course for Students of Social Sciences other than B.A Public Administration (5 Credits + 1 Tutorial).

Prof.T.Yadagiri Rao

Chairperson, BoS Dept of Public Administration & HRM

**Course Structure of B.A. (JOURNALISM) Programme under CBCS pattern  
w.e.f. Academic Year 2016-17**

KAKATIYA UNIVERSITY								
B.A. (3Years) JOURNALISM COURSE, (STRUCTURE & SYLLABUS)								
Under choice Based Credit System (CBCS) Academic Year 2016-17								
Course Year	Semester	Paper Title	No of Teaching Periods	No of Credits	Internal Marks	Theory Marks	Total Marks	
First	I	Introduction to Mass Communication & Journalism (Core)	40	5	20	80	100	
	II	Reporting and Editing for Print Media(Core)	40	5	20	80	100	
Second	III	Development Communication (Core)	40	5	20	80	100	
	IV	Broadcast Journalism New Media (Core)	40	5	20	80	100	
Third	V	Paper-V: Reporting and Editing for Electronic Media	40	4	20	80	100	
		<b>Paper-VI: Elective (Any one from paper VI(A) and any Paper VI(B)(GE)</b>		40	4	20	80	100
		Paper-VI (A) Media and Development	Paper-VI (B) Media Laws and Ethics					
	VI	Paper-VII Public Relations & Advertising (Core)	40	4	20	80	100	
		<b>Paper-VIII: General Elective from any of the following</b>		40	4	20	80	100
		Paper-VIII(A): Specialized Reporting for Print Media (Field Work)						
		Paper-VIII(B): Specialized Reporting for Electronic Media(Field Work)						
<b>Total</b>			<b>320</b>	<b>36</b>	<b>160</b>	<b>640</b>	<b>800</b>	

**Course Structure of B.A. (HISTORY) Programme under CBCS pattern  
w.e.f. Academic Year 2017-18**

Model  
Scheme of Instruction and Examination  
B.A. History (Regular)  
Choice Based Credit System (CBCS) Syllabus - w.e.f. 2016-2017

Year	Semester	DSC/GE/ DSE/SEC	Paper	Title	Credits	Hours
I	I	DSC*	Paper - I	History of India (From Earliest Times to c.700 CE)	5	50 50 50 50 50 50
	II	DSC*	Paper - II	History of India (c.700 -1526 CE)	5	
II	III	SEC*	Paper - I	Historical and Cultural Tourism in India	2	
		DSC*	Paper - III	History of India (1526-1857 CE)	5	
	IV	SEC*	Paper - II	Archives and Museums	2	
		DSC*	Paper - IV	History of India (1858-1964 CE)	5	



## A Foundation

### Course In

#### Human Values & Professional Ethics

##### Syllabus for I Year Degree Course

#### Module 1: Course Introduction - Need, Basic Guidelines, Content and Process for Value Education

1. Understanding the need, basic guidelines, content and process for Value Education
2. Self Exploration—what is it? - its content and process; 'Natural Acceptance' and Experiential Validation- as the mechanism for self exploration
3. Continuous Happiness and Prosperity- A look at basic Human Aspirations
4. Right understanding, Relationship and Physical Facilities- the basic requirements for fulfillment of aspirations of every human being with their correct priority
5. Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario
6. Method to fulfill the above human aspirations: understanding and living in harmony at various levels

#### Module 2: Understanding Harmony in the Human Being - Harmony in Myself!

7. Understanding human being as a co-existence of the sentient 'I' and the material 'Body'
8. Understanding the needs of Self ('I') and 'Body' - Sukh and Suvidha
9. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer)
10. Understanding the characteristics and activities of 'I' and harmony in 'I'
11. Understanding the harmony of I with the Body: Sanyam and Swasthya; correct appraisal of Physical needs, meaning of Prosperity in detail
12. Programs to ensure Sanyam and Swasthya

**- Practice Exercises and Case Studies will be taken up in Practice Sessions.**

#### Module 3: Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship

13. Understanding harmony in the Family- the basic unit of human interaction
14. Understanding values in human-human relationship; meaning of Nyaya and program for its fulfillment to ensure Ubhay-tripti;  
**Trust (Vishwas) and Respect (Samman) as the foundational values of relationship**

## Text Book

R R Gaur, R Sangal, G P Bagaria, 2009, *A Foundation Course in Value Education.(English)*

Pradeep Kumar Ramancharla, 2013, *A Foundation Course in Value Education (Telugu)*

R R Gaur, R Sangal, G P Bagaria, 2009, *Teacher's Manual.(English)*

Pradeep Kumar Ramancharla, 2013, *Teacher's Manual.(Telugu)*

## Reference Books

1. Ivan Illich, 1974, *Energy & Equity*, The Trinity Press, Worcester, and HarperCollins, USA

2. E.F. Schumacher, 1973, *Small is Beautiful: a study of economics as if people mattered*,

**Blond & Briggs, Britain.**

3. A Nagraj, 1998, *Jeevan Vidya ek Parichay*, Divya Path Sansthan, Amarkantak.

4. R.Pradeep Kumar, 2013, *Jeevana Vidya to Na Prayanam*, Hyderabad

5. Sussan George, 1976, *How the Other Half Dies*, Penguin Press. Reprinted 1986, 1991

6. PL Dhar, RR Gaur, 1990, *Science and Humanism*, Commonwealth Purblishers.

7. A.N. Tripathy, 2003, *Human Values*, New Age International Publishers.

8. Subhas Palekar, 2000, *How to practice Natural Farming*, Pracheen(Vaidik) Krishi TantraShodh, Amravati.

9. Donella H. Meadows, Dennis L. Meadows, Jorgen Randers, William W. Behrens III, 1972, *Limits to Growth – Club of Rome's report*, Universe Books.

10. E G Seebauer & Robert L. Berry, 2000, *Fundamentals of Ethics for Scientists & Engineers* ,  
**Oxford University Press**

11. M Govindrajran, S Natrajan & V.S. Senthil Kumar, *Engineering Ethics (including HumanValues)*, Eastern Economy Edition, Prentice Hall of India Ltd.

12. B P Banerjee, 2005, *Foundations of Ethics and Management*, Excel Books.

13. B L Bajpai, 2004, *Indian Ethos and Modern Management*, New Royal Book Co.,Lucknow. Reprinted 2008.

## Relevant CDs, Movies, Documentaries & Other Literature:

1. Value Education website, <http://www.uptu.ac.in>

2. Story of Stuff, <http://www.storyofstuff.com>

3. Al Gore, *An Inconvenient Truth*, Paramount Classics, USA

4. Charlie Chaplin, *Modern Times*, United Artists, USA

5. IIT Delhi, *Modern Technology – the Untold Story*

**A Foundation  
Course In  
Human Values & Professional Ethics**

**Syllabus for II Year Degree Course**

**Module 3: Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship**

1. Understanding the meaning of Vishwas; Difference between intention and competence
2. Understanding the meaning of Samman, Difference between respect and differentiation; the other salient values in relationship
3. Understanding the harmony in the society (society being an extension of family): Samadhan, Samridhi, Abhay, Sah-astitva as comprehensive Human Goals
4. Visualizing a universal harmonious order in society- Undivided Society (Akhand Samaj), Universal Order (Sarvabhaum Vyawastha) - from family to world family!  
- Practice Exercises and Case Studies will be taken up in Practice Sessions.

**Module 4: Understanding Harmony in the Nature and Existence - Whole existence**

**as Co-existence**

5. Understanding the harmony in the Nature
6. Interconnectedness and mutual fulfillment among the four orders of nature-recyclability and self-regulation in nature
7. Understanding Existence as Co-existence (Sah-astitva) of mutually interacting units in all-pervasive space
8. Holistic perception of harmony at all levels of existence  
- Practice Exercises and Case Studies will be taken up in Practice Sessions.

**Module 5: Implications of the above Holistic Understanding of Harmony on**

**Professional Ethics**

9. Natural acceptance of human values
10. Definitiveness of Ethical Human Conduct
11. Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order
12. Competence in professional ethics:
  - a) Ability to utilize the professional competence for augmenting universal human order,
  - b) Ability to identify the scope and characteristics of people-friendly and co-friendly production systems,
  - c) Ability to identify and develop appropriate technologies and management patterns for above production systems.

13. Case studies of typical holistic technologies, management models and production systems
14. Strategy for transition from the present state to Universal Human Order:
  - a) At the level of individual: as socially and ecologically responsible engineers, technologists and managers
  - b) At the level of society: as mutually enriching institutions and organizations

### Text Book

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10. E G Seebauer & Robert L. Berry, 2000, *Fundamentals of Ethics for Scientists & Engineers*, **Oxford University Press**
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4. Charlie Chaplin, *Modern Times*, United Artists, USA
5. IIT Delhi, *Modern Technology – the Untold Story*

SYLLABUS  
GENDER SENSITISATION

**Unit – I (Theory) 1 credit – 1 hour of instruction per week.**

1. Gender: Definition, Nature and Evolution, Culture, Tradition, Historicity.
2. Gender Spectrum: Biological, Sociological, Psychological Conditioning.
3. Gender based division of labour – domestic work and use value.
4. Gender, Human Rights and Parity (parallel progress of both genders).

**Unit – II (Practical Activity) 1 credit – 2 hours of activity per week.**

Group discussion, Presentation, Role play, Survey, Case studies, Group project based on following issues:

- Respect and Co-Existence.
- Social, Biological, Psychological, Political, Economic, Cultural, Health issues.
- Domestic Violence, Eve-teasing, Sexual Harassment.
- Real Life Experiences of Gender Interaction.
- Print and Electronic Media and Gender Inequalities.
- Contemporary Challenges.

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**U.G Semester- I  
(B.Sc/B.A./B.Com) CBCS  
Environmental Studies**

**AECC-2 (2 hrs./week)**

**Credits – 2**

**(30 hours)**

**UNIT - I: Ecosystem, Biodiversity & Natural Resources**

**(15 hrs.)**

1. Definition, Scope & Importance of Environmental Studies.
2. Structure of Ecosystem – Abiotic & Biotic components Producers, Consumers, Decomposers, Food chains, Food webs, Ecological pyramids)
3. Function of an Ecosystem :Energy flow in the Ecosystem ( Single channel energy flow model )
4. Definition of Biodiversity , Genetic, Species & Ecosystem diversity , Hot-spots of Biodiversity, Threats to Biodiversity, Conservation of Biodiversity (Insitu & Exsitu)
5. Renewable & Non – renewable resources, Brief account of Forest , Mineral & Energy (Solar Energy & Geothermal Energy) resources
6. Water Conservation, Rain water harvesting & Watershed management.

**UNIT – II: Environmental Pollution, Global Issues & Legislation**

**(15 hrs.)**

1. Causes, Effects & Control measures of Air Pollution, Water Pollution
2. Solid Waste Management
3. Global Warming & Ozone layer depletion.
4. Ill – effects of Fire- works
5. Disaster management – floods, earthquakes & cyclones
6. Environmental legislation :-  
(a) Wild life Protection Act (b) Forest Act (c) Water Act (d) Air Act
7. Human Rights
8. Women and Child welfare
9. Role of Information technology in environment and human health

**❖ Field Study:**

**(5 hours)**

- Pond Ecosystem
- Forest Ecosystem

**REFERENCES:**

- Environmental Studies - from crisis to cure – by R. Rajagopalan (Third edition) Oxford University Press.
- Text book of Environmental Studies for undergraduate courses (second edition) by Erach Bharucha
- A text book of Environmental Studies by Dr.D.K.Asthana and Dr. Meera Asthana

U.G. Semester – I (B.Sc./B.A./B.Com) CBCS

AECC-2

ENVIRONMENTAL STUDIES

Credits – 2

THEORY MODEL PAPER

TIME: 1½ HOURS

MAX MARKS: 40

SECTION -A

Write the short notes on any Four of the following 4x4=16

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

SECTION- B

Answer the following essays:

2x12=24

1 (a) Define Environmental Studies & write an essay on scope & Importance of Environmental Studies

OR

(b) Write in details about Energy resources.

2 (a) Write the Causes, Effects & Control measures of Air Pollution

OR

(b) Describe the role of Information technology in environment and human health



  
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