



GOVERNMENT DEGREE COLLEGE, THORRUR

MAHABUBABAD DISTRICT, TELANGANA STATE – 506163

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Website: <https://gdcts.cgg.gov.in/thorrur.edu>



Criterion 1 – Curricular Aspects

Key Indicator- 1.3 Curriculum Enrichment

Metric No.1.3.1

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum Our institution integrates various crosscutting issues in to the curriculum. Different courses are being offered to students through Choice Based Credit System (CBCS), Massive Open Online Courses (MOOC). The following Ability Enhancement Compulsory Courses (AECC) and Skill enhancement Courses (SEC) are being offered at institution for Under Graduate Students which integrates Professional Ethics, Gender, Human Values, Environment and Sustainability’

- Human Values & Professional Ethics
- Gender Sensitization
- Environmental Studies
- Remedial Methods of Pollution – Drinking Water & Soil Fertility

In addition to above class room courses, students are guided to take up project works. The students are being taken to field trips to various places. These Project works and Field Trips inculcate various human values in the students. The programmes like Swacha Bharath, Haritha Haram, which are being conducted in the institution, also bring awareness among students and concern about Environment.

Professional Ethics are being inculcated among the students by teaching the Foundation course. It is intended to improve the competence in professional ethics and ability to utilise the professional competence for augmenting universal human order.

Gender Sensitisation is useful towards a world of equals. It is done by teaching the subject Gender Sensitisation and various activities taken by Women Empowerment Cell. The knowledge through the Lens of Gender will be acquired by students in the areas of Socialisation, Housework, Sexual Harassment, Women's Work, domestic Violence and Just Relationship.

Human Values inculcated among the students by teaching a foundation course in Human Values. It is intended to make understand the harmony in the Human being and My-self, understanding the family and society, harmony in human relationship and the values of Nyaya (Justice), Viswas (Trust), Samman (Respect), Akhand Samaj (Undivided Society), Sarwabhauma Vyavastha (Universal Order), and Sah-astitva (Co-Existence) etc.

Environment and Sustainability awareness is also part of curriculum as Ability Enhancement Course. The students are made aware on Ecosystem, Biodiversity & Natural Resources, Environmental Pollution, Global Issues and Legislations. In addition, the Eco Club in the college conducts various programmes and field trips to infuse consciousness on Environment and Sustainability.

And, students are encouraged to participate in the cultural activities and festival celebrations conducted in the institution like Ugadi Festival, Bathukamma (Telangana Local festival), Eco friendly Ganesh Clay Idol making etc. These activities are intended to improve the Nationalism, Fraternity among the students and they will recognize the heritage and splendid culture of India.

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
					I.A	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
					I.A	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)



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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
					I.A	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

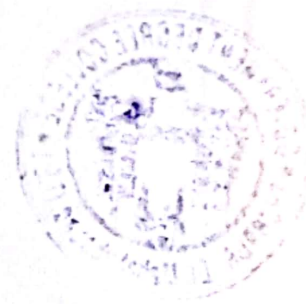
SEMESTER - IV

Code	Course category	Title of the Paper *	No. of Credits	HPW	Max. Marks		Total Marks
					I.A	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)



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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
					I.A	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			25	25	110	440	550

SEMESTER - VI

Code	Course category	Title of the Paper *	No. of Credits	HPW	Max. Marks		Total Marks
					I.A	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			25	25	110	440	550

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 Effective;
GE: Generic Elective
PW: Project Work



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B.COM (Computer Applications)

CBCS COURSE STRUCTURE

Sl.No.	Code	Course Title	HPW	Credits	Exam Hrs	Marks
(1)	(2)	(3)	(5)	(6)	(7)	(8)
I Year I Semester						
1.	ELS1	English (First Language)	4	4		
2.	SLS1	Second Language	4	4		
3.	AECC1	a)Environmental Science/ b)Basic Computer Skills	2	2	1 ½ hrs	40U+10I
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	Fundamentals of Information Technology	3T+4P	5	1 ½ hrs	50T+35P+15I
Total			27	25		
I Year II Semester						
7.	ELS2	English (First Language)	4	4		
8.	SLS2	Second Language	4	4		
9.	AECC2	a)Basic Computer Skills/ b)Environmental Science	2	2	1 ½ hrs	40U+10I
10.	DSC201	Financial Accounting-II	5	5	3 hrs	80U+20I
11.	DSC202	Business Laws	5	5	3 hrs	80U+20I
12.	DSC203	Programming with C & C++	3T+4P	5	1 ½ hrs	50T+35P+15I
Total			27	25		
II Year I Semester						
13.	ELS3	English (First Language)	3	3		
14.	SLS3	Second Language	3	3		
15.	SEC1	a)Principles of Insurance/ b)Foundation of Digital Marketing/ c)Fundamentals of Business Analytics	2	2	1 ½ hrs	40U+10I
16.	SEC2	a)Practice of Life Insurance/ b)Web Design & Analytics/ c)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	Relational Database Management System	3T+4P	5	1 ½ hrs	50T+35P+15I
Total			27	25		

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II Year II Semester						
20.	ELS4	English (First Language)	3	3		
21.	SLS4	Second Language	3	3		
22.	SEC3	a) Practice of General Insurance/ b) Social Media Marketing c) 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	Web Technologies	3T+4P	5	1 ½ hrs	50T+35P+15I
		Total	27	25		
III Year I Semester						
27.	ELS5	English (First Language)	3	3		
28.	SLS5	Second Language	3	3		
29.	GE	a) Business Economics / b) Advanced Aspects of Income Tax	4	4	3 hrs	80U+20I
30.	DSE501	a) Cost Accounting/ b) Financial Planning & Performance/ c) International Financial Reporting-I	5	5	3 hrs	80U+20I
31.	DSE502	a) Computerized Accounting/ b) Financial Decision Making-I/ c) International Tax & Regulation	3T+4P/ 5	5	3 hrs	50T+35P+ 15I/ 80U+20I
32.	DSE503	a) Management Information Systems/ b) Ecommerce/c) Mobile Applications	3T+4P	5	1 ½ hrs	50T+35P+ 15I
		Total	29/27	25		
III Year II Semester						
33.	ELS6	English (First Language)	3	3		
34.	SLS6	Second Language	3	3		40U+10I
35.	PR	Research Methodology and Project Report	2T+4R	4	1 ½ hrs	15R+15VV
36.	DSE601	a) Cost Control and Management Accounting/ b) Financial control/ c) International Financial Reporting-II	5	5	3 hrs	80U+20I
37.	DSE602	a) Theory and Practice of GST/ b) Financial Decision Making-II / c) International Auditing	3T+4P/ 5	5	3 hrs	50T+35P+ 15I/ 80U+20I
38.	DSE603	a) Multimedia Systems/ b) Cyber Security/c) Data Analytics	3T+4P	5	1 ½ hrs	50T+35P+ 15I
		Total	31/29	25		
		GRAND TOTAL	168/164	150		

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 I semester and so is the case with "b" and "c". In the case of DSE also the rule applies.

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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				
TOTAL:			25	-	110	440	75	625

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				
TOTAL :			25	-	110	440	75	625


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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
					Internal 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				
TOTAL:			25	-	110	440	75	625

SEMESTER - IV

Code	Course category	Title of the Paper	No. of Credits	Hrs PW	Max. Marks			Total Marks
					Internal 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				
TOTAL :			25	-	110	440	75	625



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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 Resources Management (Taught by: Any 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				
BS506	DSE-3E	Optional – III	4	4	20	80	25	125
		Optional – III Lab	1	3				
TOTAL:			25	-	110	440	75	625

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				
TOTAL:			25	-	110	440	75	625



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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;


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Syllabus of Human Values & Professional Ethics which was earlier taught in Degree I Year

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


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Text Book

- R R Gsur, R Songal, G P Bogaria, 2009, *A Foundation Course in Value Education*. (English)
Pradeep Kumar Ramacharla, 2013, *A Foundation Course in Value Education* (Telugu)
R R Gaur, R Sangat, G P Bagaria, 2009, *Teacher's Manual*. (English)
Pradeep Kumar Ramacharla, 2013, *Teacher's Manual* (Telugu)

Reference Books

1. Ivan Illich, 1974, *Energy and Equity*. The Trinity Press, Worcester, and HarperCollins, USA
2. E.F. Schumacher, 1973, *Small is Beautiful: A Study of Economics for the People's Movement*. Blond & Briggs, Britain
3. A. Nagaraj, 1995, *Jeevan Vidya ek Parivartan*, Divya Prakashan, Mysore
4. R. Radeep Kumar, 2013, *Jeevana Vidya to Na Prayanam*, Hyderabad
5. Susan George, 1976, *How the Other Half Dies*, Penguin Press. Reprinted 1986, 1991
6. P.L. Dhar, R.R. Gaur, 1990, *Science and Humanity*, Commonwealth Publishers.
7. A.N. Tripathy, 2003, *Human Values*, New Age International Publishers.
8. Sijbhas Palekar, 2000, *Value Education: A New Paradigm*, Pracheen (Yaidik) Krishi Tantra
9. Donella H. Meadows, Dennis L. Meadows, Jorgen Randers, William W. Behrens III, 1972, *Limits to Growth: The Challenge to the World*, Universe Books.
10. E.G. Seebauer & Robert L. Berry, 2004, *Value Education: A New Paradigm*, Oxford University Press
11. M. Govindrajm, S. Natrajan & W.E. Sunthil Kumar, *Engineering Ethics (Excluding Humani Values)*, Eastern Economy Edition, Prentice Hall of India Ltd.
12. B.P. Bannejee, 2005, *Foundations of Ethics and Management*, Excel Books.
13. B.L. Bajpai, 2004, *Indian Ethics and Modern Management*, New Royal Book Co., Lucknow. Reprinted 2004.

Relevant CDs, Movies, Documentaries & Other Literature:

1. Value Education website, <http://www.valueeducation.org>
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*


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Syllabus of Human Values & Professional Ethics which was earlier taught in Degree II Year

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.


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- characteristics of people friendly and eco- scope and identify the to b) Ability
 c) Ability to identify and develop appropriate technologies at xi management
 patterns for above production systems
13. Case studies of typical holistic technologies, management models and production
14. Strategy for transition from the present state to Universal Human Order
- At the level of individual as socially and ecologically responsible engineers, technologists and managers
 - At the level of society as mutually enriching institutions and organizations

Text Book

- R R Gaur, R Sangal, G P Bagaria 2009, *A Foundation Course in Value Education. (English)*
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Relevant CD Movies, Documentaries & Other Literature:

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2. Story of Staff, <http://www.storyofstaff.com>
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4. CbweCbphn, UedemZimo, uMed www.cbwe.com, USA
5. HT Delhi, *Modernt Jñefinofgr - the Untold Story*



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a foundation course in
HUMAN VALUES and
professional ethics

Presenting a universal approach to value education
– through self-exploration

What is
my role in
this existence?



R R Gaur R Sangal G P Bagaria

Brief Contents

<i>Preface</i>	<i>xv</i>
<i>Acknowledgements</i>	<i>xix</i>
<i>About the Authors</i>	<i>xxi</i>
<i>Note for Students</i>	<i>xxiii</i>
<i>Symbols Used for Hindi Alphabets</i>	<i>xxix</i>
<i>An Introductory Overview of the Book</i>	<i>xxxi</i>

SECTION I: INTRODUCTION TO VALUE EDUCATION

Chapter 1	Understanding Value Education	3
Chapter 2	Self-exploration as the Process for Value Education	11
Chapter 3	The Basic Human Aspirations – Continuous Happiness and Prosperity	27
Chapter 4	The Program to Fulfil Basic Human Aspirations	35

SECTION II: UNDERSTANDING THE HARMONY AT VARIOUS LEVELS

Chapter 5	Understanding the Human Being as Co-existence of Self ('I') and Body	59
Chapter 6	Harmony in the Self ('I') – Understanding Myself	89
Chapter 7	Harmony with the Body – Understanding <i>Sanyama</i> and <i>Svāsthya</i>	117
Chapter 8	Harmony in the Family – Understanding Values in Human Relationships	127
Chapter 9	Harmony in the Society – From Family Order to World Family Order	161
Chapter 10	Harmony in Nature – Understanding the Interconnectedness and Mutual Fulfilment	179
Chapter 11	Harmony in Existence – Understanding Existence as Co-existence	199

SECTION III: IMPLICATIONS OF THE RIGHT UNDERSTANDING

Chapter 12	Providing the Basis for Universal Human Values and Ethical Human Conduct	217
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Chapter 13	Basics for the Holistic Alternative towards Universal Human Order	225
Chapter 14	Professional Ethics in the Light of Right Understanding	231
Chapter 15	Vision for Holistic Technologies, Production Systems and Management Models	241
Chapter 16	Journey towards the Holistic Alternative – The Road Ahead	251
	<i>Appendices</i>	259
	<i>Glossary</i>	273
	<i>References</i>	281




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Kakatiya University Orders towards the teaching of Gender Sensitisation, Environmental Studies, Human Values and Professional Ethics as part of the regular curriculum.

Gender Sensitisation Subject

PROF. K. PURUSHOTHAM
REGISTRAR



OFFICE OF THE REGISTRAR
KAKATIYA UNIVERSITY
WARANGAL - 506 009

No. 916/B2/KU/2017

Date: 27-07-2017

To

All the Principals of University/Affiliated
Colleges offering Under-Graduate (N.P.) courses
KAKATIYA UNIVERSITY

Subj: CHOICE BASED CREDIT SYSTEM (C.B.C.S.) - Teaching of Gender Sensitization subject by qualified P.G. Gender Studies candidates
Instructions Regarding

Sir/Madam,

With reference to the subject cited, I am to inform you that the subject, Gender Sensitization in I year II Semester of Under-Graduate courses may be taught by the qualified P.G. Gender Studies candidates, where available. If such candidates are not available, M.A Sociology & Master of Social Work candidates may be utilized.

Please take action accordingly.

Yours faithfully,

P. Purushotham
REGISTRAR

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2. The Dean, Academic Audit, KU
3. The Dean, Faculty of Social Sciences, KU
4. The Secretary to Vice-Chancellor, KU
5. The SF.

[Signature]
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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.

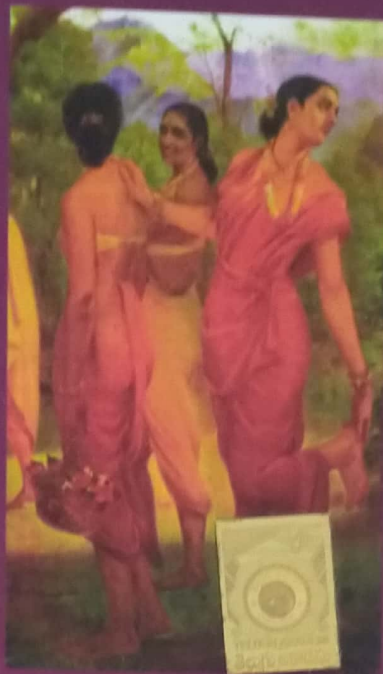
Group discussion, Presentation, Role play, Survey, Case studies, Group project based on following issues:

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

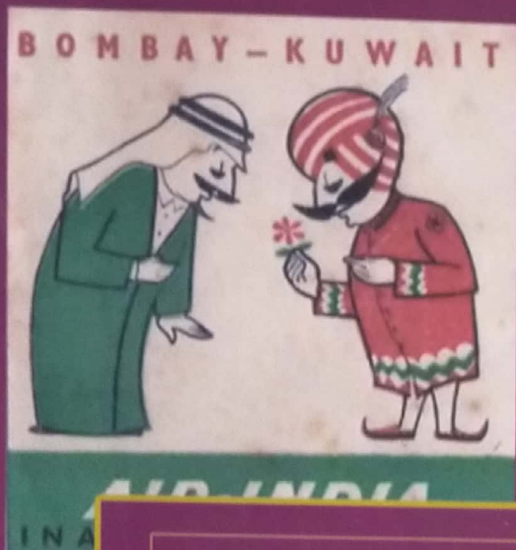
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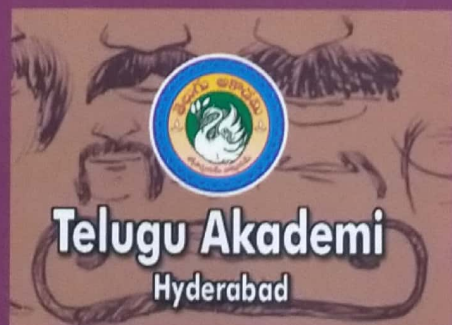
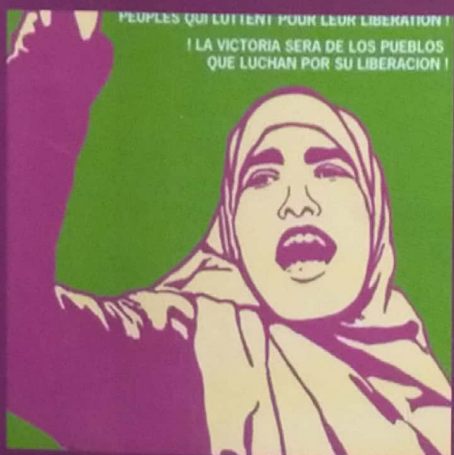
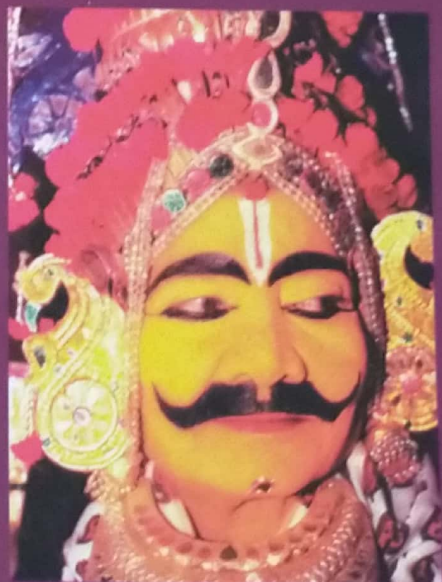
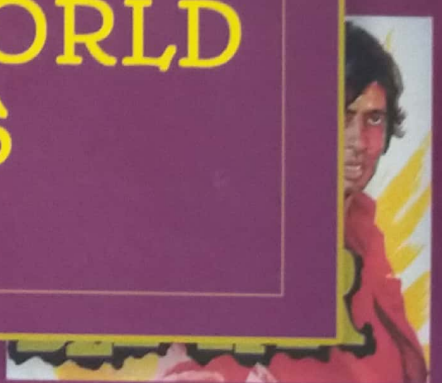
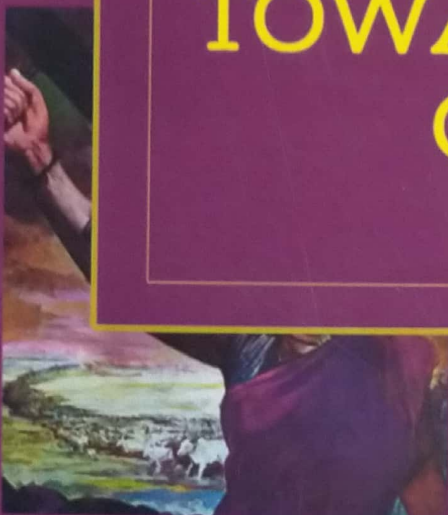
పుం పో: ధీ పే సామర్య రామ్య :
John N. C. C.



TOWARDS A WORLD OF EQUALS

A BILINGUAL TEXTBOOK ON GENDER

For UG Courses in Telangana



Towards a World of Equals

Gender touches every sphere of our life - personal relations, social formations, psychology, culture, family, education, politics, law, sports, even science. In our everyday life we see many struggles for equality and dignity. Gender is quite central to these struggles. In recent years there have also been many government initiatives and laws aimed at creating gender equality in our society. As a result, prevailing notions of being men and women are challenged. However young people have limited spaces to discuss and deal with these changes and the resulting confusions and anxieties about masculinity, femininity, romance, marriage, in short about gender roles. This UGC mandated course on gender sensitization, we hope, will create the space for this much needed discussion.

For UG Courses in Telangana



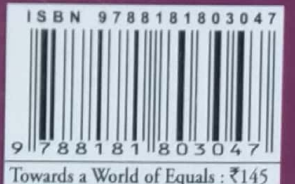
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విషయసూచిక

కృతజ్ఞతలు

పీఠిక రమా మెల్కోట్

1	జండర్: దీని గురించి అధ్యయనం చేయాల్సిన ఆవశ్యకత	4
2	సాంఘికీకరణ: స్త్రీలనీ, పురుషులనీ తయారు చెయ్యడం	25
2.1	పరిచయం	25
2.2	స్త్రీత్వం కోసం శిక్షణ	28
2.3	పురుషుడిగా ఎదగటం	31
2.4	కుల వివక్షలో మొదటి పాఠం	34
2.5	విభిన్న పురుషత్వాలు	37
3	ఇంటి పని: కనిపించని శ్రమ	49
3.1	“మా అమ్మ పని చేయదు”	49
3.2	“పనులని పంచుకుందాం”	52
4	అదృశ్యమైన స్త్రీలు : మగ శిశువుల ఎంపిక, దాని పర్యవసానాలు	62
4.1	విషమిస్తున్న లింగ నిష్పత్తి	62
4.2	జండర్ అసమతుల్యత వల్ల కలిగే దుష్పరిణామాలు	65
5	జండర్ దృష్టి కోణం నుండి జ్ఞాన రంగాల పరిశీలన	79
5.1	దృష్టి కోణం	79
5.2	జండర్, జ్ఞాన రంగాల స్వరూప, స్వభావాలు	82
5.3	అదనపు పఠనం: మనం మరిచిన తెలంగాణా కళాకారులు	86
6	లైంగిక వేధింపులకి స్వస్తి చెప్పదాం!	99
6.1	ఇవి వేధింపులు, సరదా కాదు	99
6.2	వేధింపులను ఎదుర్కోవటం ఎలా	103
6.3	అదనపు పఠనం: “చూపులు”	107
7	స్త్రీల శ్రమ: దాని వెనకున్న రాజకీయ, ఆర్థిక అంశాలు	116
7.1	నిజాలు, కట్టు కథలు	116
7.2	గుర్తింపులేనిది, లెక్క లోనికి రానిది	119
7.3	అదనపు పఠనం: జీతాలు, పని ప్రదేశాల్లో పరిస్థితులు	121
8	కుటుంబ హింస: నిశ్శబ్దాన్ని ఛేదద్దాం!	135
8.1	‘ఇల్లు’ సురక్షితమేనా?	135
8.2	ఆడవాళ్లు ఏకమైతే (సినిమా)	139
8.3	కొత్త జీవితాలవైపు	140
8.4	“అదనపు పఠనం”: న్యాయానికి కొత్త వేదికలు	144



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9. ఎవరిదీ చరిత్ర? చరిత్రకారులకి, మేధావులకి కొన్ని ప్రశ్నలు
- 9.1 మన గతాన్ని తిరిగి సొంతం చేసుకుందాం
- 9.2 నవ చరిత్రల రచన
- 9.3 అదనపు పఠనం: ఆధునిక తెలంగాణ చరిత్రలో మరుగుపడిన కొన్ని పేజీలు
- 10 జండర్ ఒక స్పెక్ట్రమ్: స్త్రీ పురుష ధ్వయమే కాదు...
- 10.1 ఆదా, మగా, ఇంకా...
- 10.2 వివక్షతో సంఘర్షణ
- 11 లైంగిక హింస గురించి ఇకనైనా ఆలోచిద్దాం
- 11.1 బాధితులపైనే బండలా?
- 11.2 “బ్రతకటానికి పోరాడాను...”
- 11.3 అదనపు పఠనం: హింసకు కూడా కులం ఉంటుంది
- 12 సమ సంబంధాలు: సహజీవనంలో సమానత్వం
- 12.1 ఒక బాక్సర్ ప్రేమ కథ
- 12.2 ప్రేమా, యాసిడ్ ఎప్పటికీ కలవవు
- 12.3 ప్రేమ లేఖలు
- 12.4 అమ్మలు, నాన్నలు
- 12.5 అదనపు పఠనం: జాత్యహంకారాన్ని ఎదిరించిన వీరవనిత రోసాపార్బ్
- 13 అదనపు పఠనం: మన శరీరాలు, మన ఆరోగ్యం

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CONTENTS

Acknowledgements

Preface by Rama Melkote

1 Gender: Why Should We Study It?	1
2 Socialization: Making Women, Making Men	7
2.1 Introduction	7
2.2 Preparing for womanhood	10
2.3 Growing up male	14
2.4 First lessons in caste	18
2.5 Different masculinities	21
3 Housework: The Invisible Labour	40
3.1 "My mother does not work"	40
3.2 "Share the load"	44
4 Missing Women: Sex Selection and Its Consequences	56
4.1 Declining sex ratio	56
4.2 Demographic consequences	59
5 Knowledge: Through the Lens of Gender	67
5.1 Point of view	67
5.2 Gender and the structure of knowledge	70
5.3 Further reading: Unacknowledged women artists of Telangana	75
6 Sexual Harassment: Say No!	90
6.1 Sexual harassment, not eve-teasing	90
6.2 Coping with everyday harassment	94
6.3 Further reading: "Chupulu"	98
7 Women's Work: Its Politics and Economics	108
7.1 Fact and fiction	108
7.2 Unrecognized and unaccounted work	111
7.3 Further reading: Wages and conditions of work	113


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8 Domestic Violence: Speaking Out	12
8.1 Is home a safe place?	12
8.2 When women unite [Film]	12
8.3 Rebuilding lives	13
8.4 Further reading: New forums for justice	13
9 Whose History? Questions for Historians and Others	14
9.1 Reclaiming a past	14
9.2 Writing other histories	14
9.3 Further reading: Missing pages from modern Telangana history	15
10 Gender Spectrum: Beyond the Binary	17
10.1 Two or many?	17
10.2 Struggles with discrimination	18
11 Thinking about Sexual Violence	19
11.1 Blaming the victim	19
11.2 "I fought for my life..."	19
11.3 Further reading: The caste face of violence	20
12 Just Relationships: Being Together as Equals	21
12.1 Mary Kom and Onler	21
12.2 Love and acid just do not mix	21
12.3 Love letters	22
12.4 Mothers and fathers	22
12.5 Further Reading: Rosa Parks—The braveheart	22
13 Additional Reading: Our Bodies, Our Health	24
Sources	26

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KAKATIYA UNIVERSITY
B.SC I YEAR SEMESTER-I - CBCS
Ability Enhancement Compulsory Course (AECC)

ENVIRONMENTAL STUDIES

(2 hrs./week)

Credits – 2

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:

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- A text book of Environmental Studies by Dr.D.K.Asthana and Dr. Meera Asthana

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Dr. G. SHAMITHA
Chairperson
Board of Studies
Department of Zoology & Sericulture Unit
KAKATIYA UNIVERSITY - WGL-506009 (T.S)



KAKATIYA UNIVERSITY, WARANGAL
B.Sc. Programme
Under CBCS System wef A.Y: 2020-21
Second Year :: Semester - IV
BS-402/ SEC-4 (Common to all Science Courses)

Remedial Methods of Pollution - Drinking Water & Soil Fertility

[2HPW, #Credits: 2, Marks:50 (Internal:10, External:40)]

(Taught by: Chemistry Department)

UNIT I: Remedial Methods for Pollution:

Prevention and control of air pollution: Ozone hole - Causes and harm due to ozone depletion, Effect of CFC's in Ozone depletion and their replacements, Global Warming and Green-house effect, Precaution measures to control global warming, Deleterious effect of pollutants, Endangered monuments, Acid rain, Precautions to protect monuments, Sources of Radiation pollution, Chernobyl accident and its consequences. Radiation effect by usage of cell phones and protection tips, Deleterious effects of cell phone towers and health hazards.

Sources of water pollution: (i) Pollution due to pesticides and inorganic chemicals, (ii) Thermal pollution (iii) Ground water pollution (iv) Eutrophication.
Methods for control of water pollution and water recycling: Dumping of plastics in rivers and oceans and their effect on aquatic life, Determination of (i) Dissolved oxygen and (ii) Chemical Oxygen demand in polluted water, Illustration through charts (or) demonstration of experiments,

Sources of soil pollution: (i) Plastic bags (ii) Industrial and (iii) Agricultural sources, Control of soil pollution, Environmental laws in India, Environmental benefits of planting trees.

UNIT II: Drinking Water and Soil Fertility Standards and Analysis:

Water quality and common treatments for private drinking water systems, Drinking Water Standards: 1. Primary drinking water standards: Inorganics, Organics and Volatile Organic Chemicals, 2. Secondary drinking water standards: Inorganics and Physical Problems, Water testing, Mineral analysis, Microbiological tests, Pesticide and Other Organic Chemical Tests, Principle involved in Water Treatment Techniques: (i) Reverse Osmosis (ii) Disinfection methods such as Chlorination, Ultraviolet light, ozonation etc... (iii) Chemical oxidation and iv) Ion exchange (water softeners). Visit to nearby drinking water plants and interaction at sites.

Introduction to Soil Chemistry: Basic Concepts. Effect of P^H on nutrient availability, Macronutrients and their effect on plants, Carbon, Hydrogen, Oxygen, Nitrogen and Phosphorus, other macronutrients, Calcium, Magnesium and Sulfur, Micronutrients and their effect on plants, Boron ($B_4O_7^{2-}$), Copper (Cu^{2+}), Iron (Fe^{2+} , Fe^{3+}), Manganese (Mn^{2+}), Molybdenum (MoO_4^{2-}), Zinc (Zn^{2+}), Cobalt (Co^{2+}), Chlorine (Cl^-) and others. Determination of soil nitrogen by Kjeldahl method, Illustration through charts and demonstration of experiment, Visit to nearby agricultural farms and interaction with farmers, Discussion with farmers on the use of 'Soil Analysis Kits'.



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KAKATIYA UNIVERSITY - WARANGAL - TELANGANA
Under Graduate Courses (Under CBCS 2019-2022)
B.A. GENERIC ELECTIVE III YEAR
SEMESTER - V

GOOD GOVERNANCE

(G. E. Common all Social Sciences courses)

4 Hours/Week Credits: 4 Marks: 100 (Internal: 20; External: 80)

Course Objective

The word 'Governance' appears in diverse academic disciplines. At general level, governance refers to theories and issues of social coordination and the nature of all patterns of rule. The theories of governance have changed the understanding of various concepts of state and its institutions. New jargon of words emerged into the social science literature with different connotations. In this background, the present course is aimed to provide an in-depth understanding of the basic tenets and trends of Good Governance.

Unit - I: Introduction

- a) Meaning and Definitions of Governance
- b) Government and Governance
- c) Concepts of Good Governance

Unit - II: Citizen and Governance

- a) Rule of Law and Human Rights
- b) Accountability
- c) Participation

Unit - III: Techniques of Good Governance

- a) Openness and Transparency
- b) Citizen Charter
- c) Social Audit

Unit - IV: Emerging Trends

- a) Public and Private Governance
- b) Good Governance and Civil Society
- c) ICT and Good Governance

References:

- Bell, S., and Hindmoor, A. (2009) Rethinking Governance: The Centrality of the State in Modern Society, Cambridge University
- Bell, Stephen and Andrew Hindmoor. (2009) Rethinking Governance: The Centrality of the State in Modern Society Cambridge: CUP.
- Bevir, Mark (2009). Key Concepts in Governance, Sage, London
- Bevir, Mark, ed. (2010) The Sage Handbook of Governance. Thousand Oaks, CA: Sage
- Bovaird, Tony and Elke Löffler, eds. (2009) Public Management and Governance, Routledge
- Farazmand, Ali and Jack Pinkowski, eds. (2006) Handbook of Globalization, Governance, and Public Administration. London: CRC / Taylor & Francis.
- Hajer, Maarten, and Hendrik Wagenaar (2003) "Introduction." In Deliberative Policy Analysis. Kjaer, A (2004) Governance Cambridge, UK: Polity Press.
- Kooiman, Jan ed. (1993) Modern Governance: New Government - Society Interactions. London: Sage
- Kooiman, Jan. (2003) Governing as Governance. London: Sage


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DEPARTMENT OF DISTANCE EDUCATION
& HUMAN RESOURCE MANAGEMENT
KAKATIYA UNIVERSITY
WARANGAL, TELANGANA

KAKATIYA UNIVERSITY, WARANGAL-506 009

B.Sc. Under CBCS System wef A.Y: 2021-22

Third Year : : Semester - V

GENERIC ELECTIVE (Common to all students)

WATER RESOURCES MANAGEMENT

(4 hrs/week) (Taught by ant Science Dept) (Credits:4) (Marks:100)

UNIT-I:

Introduction to water resources management, different types of water resources, water resources and its importance, Global distribution of water. Hydrological cycle, Conservation of water, recycling of water.

Unit-II:

Rain water harvesting, methods of roof top rain water harvesting in urban setting: Direct method - Storing rain water in tanks for direct use; indirect methods - Recharge pits, bore wells/dug wells, Recharge trenches. Over use of surface and ground water and control measures.

UNIT-III:

Importance of water shed and water shed management, Rain water harvesting in rural setting: Check dams, percolation tanks, gabion structure, continuous contour trenches, staggered contour trenches, farm ponds. Surface water and ground water pollution, control measures.

UNIT-IV :

Mission Bhagiratha: Telangana government water grid project for drinking water supply - aims and objectives and method of implementation. Mission Kakatiya: Telangana government project for the restoration of minor irrigation tanks, aims and objectives and method of implementation.

Text books:

- 1) Water Resources, Conservation and Management by Chatterjee, S.N.
- 2) Groundwater hydrology by Todd
- 3) Watershed management by J.V.S.Murthy
- 4) Applied Hydrogeology by Fetter.




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KAKATIYA UNIVERSITY - WARANGAL - TELANGANA

B.Sc. Programme under CBCS

With effect from the A.Y: 2019

Optional Paper

(Common to all Science Courses)

III Year SEMESTER – VI

PUBLIC HEALTH AND HYGIENE

UNIT-I: Nutrition, Environment and Health

- 1.1 Classification of foods – Carbohydrates, Proteins, Lipids and Minerals.
- 1.2 Nutritional deficiencies and disorders of Carbohydrates, Proteins, Lipids and Minerals.
- 1.3 Concept, Steps and Applications of Environment and Health Impact Assessment.
- 1.4 Industrial, Agricultural and Urban Health. Environmental Pollution and Associated Health Hazards.

UNIT-II : Communicable and Non-Communicable Diseases

- 2.1 Causes, symptoms, diagnosis, treatment and prevention of Communicable Diseases (Malaria, Filariasis, Tuberculosis and AIDS).
- 2.2 Causes, symptoms, diagnosis, treatment and prevention of Non-Communicable Diseases (Hypertension, Coronary Heart Diseases, Diabetes and Obesity).
- 2.3 Symptoms, treatment and prevention measures of Water Borne Diseases (Diarrhea, Typhoid, Hepatitis and Amebiasis).
- 2.4 Symptoms, treatment and prevention measures Air Borne Diseases (COVID-19, Influenza, Whooping cough and Chickenpox).

UNIT-III :Food and Diet Systems

- 3.1 Definition of Food, Types of foods (Texturized foods, Novel foods and Organic foods).
- 3.2 Food safety system and issues; Physical, chemical and microbiological contaminants; The significance of foodborne diseases.
- 3.3 Principles of diet in diseases, Classification of diets according to nutrients.
- 3.4 Etiology, Symptom and Dietary Management in Obesity, Underweight, Hypertension, Diabetes Mellitus, Atherosclerosis.

UNIT-IV : Personal Hygiene and Sanitation

- 4.1 Definition of Hygiene and Sanitation, Personal Hygiene of food handler, Techniques of Washing Hands, Pest control and Garbage Disposal.
- 4.2 Definition of Public Health, Hygiene, Social and Preventive Medicine, Basic aspects of Personal Hygiene and Disposal of Waste.
- 4.3 The Hygiene Practices of the different categories of family members (children, parents and aged members)
- 4.4 Definition of Sanitation, Environmental Sanitation, Sanitation of Food Serving Institution, The importance of proper sanitation practices.

Suggested Readings:



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