

PRR & VS GOVT.COLLEGE
VIDAVALUR, SPSR NELLORE DT.
(Accredited With B Grade by NAAC)



COURSE OUTCOMES

2022 - 23



DEPARTMENT OF TELUGU

PRR &VS GOVT., COLLEGE,VIDAVALURU
DEPARTMENT OF TELUGU
COURSE OUT COMES

2022-23

విద్యార్థి జీవితంలో పట్టభద్ర విద్య ఒక నూతన అధ్యాయం. భావి జీవన సాధానికి అది తలిమెట్లు. సాహితీ అధ్యయనం వల్ల మానసిక వికాసం, సామాజిక సర్దుబాటు, మన ఉల్లాసం కలుగుతాయి. వీటితో భాష సాహిత్యాలపై అవగాహన, అభిరుచులతో పాటు భాషా సాంకేతిక నైపుణ్యాలు అభివృద్ధి చెందుతాయనడం నిస్సందేహం. మారుతున్న కాలమాన పరిస్థితులలో భాషా పటిమకు తెలుగు భాషా సాహిత్య అధ్యయనం అత్యవసరం. తెలుగు భాషపట్ల గౌరవం, సాహిత్యం పట్ల అవగాహన, ఆసక్తివిలువలు నేర్పించడం ఈ కోర్సు ప్రధాన ఉద్దేశం.

GENERAL TELUGU
SEMESTER-I,PAPER-1

By the end of the course during the first semester with 4 hours a

week and 2 credits a semester students will able to –

వేయి సంవత్సరాల వైబడిన సుదీర్ఘ సాహిత్య చరిత్ర తెలుగు భాషకు కలదు. తెలుగు సాహిత్యం పద్యంతోనే పీఠారంభమయినది. ఆంగ్ల సాహిత్య ప్రభావంతో ఎన్ని ప్రకరియలు వచ్చినా పద్యం తన పీఠాభిమాని కోల్పోలేదు.

ఈ కోర్సు విజయవంతంగా ముగించాక, విద్యార్థులు కింది అభ్యాసన ఫలితాలను పొందగలరు.

1. పీఠాభిమాని నా తెలుగు సాహిత్యం యొక్క పీఠాభిమాని తనం విశిష్టతను గుర్తిస్తారు తెలుగు సాహిత్యంలో ఆదికవి నన్నయ కాలం నాటి భాష సంస్కృతులను ఇతిహాస కాలం నాటి రాజనీతి విషయాల పట్ల పరిజ్ఞానాన్ని సంపాదించగలరు.
2. శివకవుల కాలం నాటి మత పరిస్థితులను భాషా విశేషాలు గ్రహిస్తారు తెలుగు నుడికారం సామెతలు మొదలైన భాషా అంశాలపట్ల పరిజ్ఞానం అన్ని పొందగలరు.
3. తిక్కన భారతం నాటి మాత కార్మిక పరిస్థితులను తిక్కన కవితా శిల్పం నాటకీయతను అవగాహన చేసుకోగలరు.
4. ఎర్రన్న సూక్తి వైచిత్రీని ఇతిహాస కవిత్యంలోని విభిన్న రీతిలో పట్ల అభిరుచిని పొందగలరు శ్రీనాధుని కాలం నాటి కవిత విశేషాలను వల్ల కవిత విశిష్టతను గుర్తించగలరు.
5. తెలుగు పద్యం స్వరూప స్వభావాలను సాహిత్యాభిరుచి పెంపొందించుకుంటారు పీఠాభిమాని కావ్య భాష లోని వ్యాకరణాంశాలు అధ్యయనం చేయడం ద్వారా భాషా సామర్థ్యాన్ని రచనల వలెను మెళుకువలను గ్రహించగలరు.

Semester I

- 1) T. Pavan BSC (MPCS)
- 2) U. MUNIKRISHNA Bsc [MPCS]
3. B. Manasa B.sc [MPCS]
4. S. Ganga Bhavani BSC [MPCS]
5. K. Sireesta BSC (MPCS)
6. M. Kalyani BSC [MPCS]
7. J. pavani BSC [MPCS]
8. S. Raghavendra BSC [MPCS]
9. D. Jagadeesh BSC [MPCS]
10. B. Tejasree BSC [B2C]
11. B. Lavanya BSC [B2C]
12. K. Jayalakshmi BSC [B2C]
13. T. sudhalakshmi BSC [B2C]
14. Sk. Raheem BA [HEP]
15. S. Haseesh BA [HEP]
16. Vishnu Priya BA [HEP]
17. ASwanth BA [HEP]
18. D. Vinodh Kumar BA [HEP]
19. P. Rajendra B.COM [CA]
20. J. Manikanta B.COM [CA]
21. P. Senth Kumar B.COM [CA]
22. S. Yaswanth B.COM [CA]
23. S. Yashwanth B.COM [CA]
24. G. Shankar B.COM [CA]
25. K. Sukumar B.COM [CA]

- T. Pavan
- U. MUNIKRISHNA
- B. Manasa
- S. Ganga Bhavani
- K. Sireesta
- M. Kalyani
- J. pavani
- S. Raghavendra
- D. Jagadeesh
- B. Tejasree
- B. Lavanya
- K. Jayalakshmi
- T. sudhalakshmi
- Sk. Raheem
- S. Haseesh
- Vishnu Priya
- ASwanth
- D. Vinodh Kumar
- Rajendra
- J. Manikanta
- P. Senth Kumar
- S. Yaswanth
- S. Yashwanth
- G. Shankar Rao
- K. Sukumar

PRR & VS GOVT., COLLEGE, VIDAVALURU
DEPARTMENT OF TELUGU
COURSE OUT COMES

2022-23

విద్యార్థి జీవితంలో పట్టభద్ర విద్య ఒక నూతన అధ్యాయం. భావి జీవన సాధానికీ అది తొలిమెట్టు. సాహితీ అధ్యయనం వల్ల మానసిక వికాసం, సామాజిక సర్దుబాటు, మనో ఉల్లాసం కలుగుతాయి. వీటితో భాష సాహిత్యాలపై అవగాహన, అభిరుచులతో పాటు భాషా సాంకేతిక నైపుణ్యాలు అభివృద్ధి చెందుతాయనడం నిస్సందేహం. మారుతున్న కాలమాన పరిస్థితులలో భాషా పటిమకు తెలుగు భాషా సాహిత్య అధ్యయనం అత్యవసరం. తెలుగు భాషపట్ల గౌరవం, సాహిత్యం పట్ల అవగాహన, ఆసక్తివిలువలు నేర్పించడం ఈ కోర్సు ప్రధాన ఉద్దేశం.

GENERAL TELUGU
SEMESTER-II, PAPER-2

By the end of the course during the second semester with 4 hours a Week and 2 credits a semester students will able to –

ఈ కోర్సు విజయవంతంగా ముగించాక, విద్యార్థులు కిరింది అభ్యాసన ఫలితాలను పొందగలరు

1. ఆంగ్ల భాష ప్రభావం కారణంగా తెలుగులో లో వచ్చిన ఆధునిక సాహిత్యాన్ని దాని విశిష్టతను గుర్తిస్తారు
2. సమకాలీన ఆధునిక సాహిత్య ప్రకరియలైన వచన కవిత్యం, కథ, నవల, నాటకం విమర్శలపై అవగాహన పొందుతారు
3. భావకవిత, అభ్యుదయకవితా లక్ష్యాలను కూర్చున్న జ్ఞానాన్ని పొందుతారు అస్తిత్వవాద ఉద్యమాల పుట్టుకను ఆవశ్యకతను గుర్తిస్తారు
4. కథా సాహిత్యం ద్వారా సామాజిక చైతన్యాన్ని పొందుతారు సిద్ధాంతాల ద్వారా కాకుండా వాస్తవ పరిస్థితులను తెలుసుకోవడం ద్వారా సిద్ధాంతాన్ని సమీక్షించే గలరు
5. ఆధునిక తెలుగు కల్పనా సాహిత్యం ద్వారా సామాజిక సాంస్కృతిక రాజకీయ చైతన్యాన్ని పొందుతారు

SEMESTER - 2

1) T. Pavan	BSC (MPCS)	T. Pavan
2) U. MUNIKRISHNA	Bsc [MPCS]	U. Muni Krishna
3. B. Manasa	B.Sc [MPCS]	B. Manasa
4. S. Ganga Bhavani	Bsc [MPCS]	S. Ganga Bhavani
5. K. Sireesha	BSC [MPCS]	K. Sireesha
6. M. Kalyani	B.Sc [MPCS]	M. Kalyani
7. J. Pavani	B-Sc [MPCS]	J. Pavani
8. S. Raghavendra	[B.Sc MPCS]	S. Raghavendra
9. D. Jagadeesh	[BSC MPCS]	D. Jagadeesh
10. B. Tejasree	B-Sc [BZC]	B. Tejasree
11. B. Lavanya	BSC [BZC]	B. Lavanya
12. K. Jayalakshmi	BSC [BZC]	K. Jayalakshmi
13. T. Sudhalakshmi	BSC [BZC]	T. Sudhalakshmi
14. SK. Raheem		SK. Raheem
15. S. Haseesh	BA [HEP]	S. Haseesh
16. Vishnu Priya	BA [HEP]	Vishnu Priya
17. Aswanth	BA [HEP]	Aswanth
18. D. Vinuth Kumar	BA [HEP]	D. Vinuth Kumar

PRR & VS GOVT., COLLEGE, VIDAVALURU
DEPARTMENT OF TELUGU
COURSE OUT COMES
2022-23

విద్యార్థి జీవితంలో పట్టభద్ర విద్య ఒక నూతన అధ్యాయం. భావి జీవన సాధానికి అది తొలిమెట్టు. సాహితీ అధ్యయనం వల్ల మానసిక వికాసం, సామాజిక సర్దుబాటు, మనో ఉల్లాసం కలుగుతాయి. వీటితో భాష సాహిత్యాలపై అవగాహన, అభిరుచులతో పాటు భాషా సాంకేతిక నైపుణ్యాలు అభివృద్ధి చెందుతాయనడం నిస్సందేహం. మారుతున్న కాలమాన పరిస్థితులలో భాషా పటిమకు తెలుగు భాషా సాహిత్య అధ్యయనం అత్యవసరం. తెలుగు భాషపట్ల గౌరవం, సాహిత్యం పట్ల అవగాహన, ఆసక్తివిలువలు నేర్పించడం ఈ కోర్సు ప్రధాన ఉద్దేశం.

GENERAL TELUGU
SEMESTER-III, PAPER-3

By the end of the course during the second semester with 4 hours a Week and 2 credits a semester students will able to –

- 1 తెలుగు సాహిత్య అభ్యసన ద్వారా నేర్చుకున్న నైపుణ్యాలను సృజనాత్మక నైపుణ్యాలు గా మార్చుకోగలరు
- 2 విద్యార్థులు భాషా తత్వాన్ని, భాష యొక్క ఆవశ్యకతను, భాష యొక్క పరాధాన్యాన్ని గుర్తిస్తారు. మనిషి వ్యక్తిగత జీవనానికి, సామాజిక వ్యవస్థ పటిష్ఠతకు, భాష ప్రధానమని తెలుసుకుంటారు. తెలుగు భాషలోని కీలక అంశాల పైన వర్ణం-పదం - వాక్యాల పరాధాన్యాన్ని గుర్తిస్తూ, వాగ్రూప లిఖిత రూపం వ్యక్తీకరణ ద్వారా భాషా నైపుణ్యాలను మెరుగుపరచుకోగలరు.
3. భాషా నైపుణ్యాలను అలవరుచుకోవడంతో పాటు వినియోగించడం నేర్చుకుంటారు రచన, భాషా నైపుణ్యాలను సృజనాత్మక రూపంలో వ్యక్తీకరించుకోగలరు.
4. పోరాచీన పద్య రచనతో పాటు ఆధునిక కవిత, కథ, వ్యాసం మొదలైన సాహిత్య ప్రకరణాల నిర్మాణాలకు సంబంధించిన సిద్ధాంతం విషయాలను నేర్పడం తో పాటు వారిలో రచన నైపుణ్యాలను పెంపొందించుకో గలరు
5. సృజన రంగం ప్రసార మాధ్యమ రంగాల్లో ఉపాధి అవకాశాలను అందిస్తున్నట్లుగా
6. అనువాద రంగంలో నైపుణ్యం సంపాదించగలరు

V. Bhavana	BA(H.E.P)	3 rd Sem
G. Gowthami	BA (H.E.P)	3 rd Sem
Ch. Anusha	BA (H.E.P)	3 rd Sem
B. Divya	B.A (H.E.P)	3 rd Sem
G. Sumalatha	B.A [H.E.P]	3 rd Sem
Ch. Sreedevi	BA [H.E.P]	3 rd Sem
M. Ravadivi	BA (H.E.CA)	3 rd Sem
D. Manjesh Babu	BA (H.E.P)	3 rd Sem
E. Devasree	BA (H.E.P)	3 rd Sem
K. Rajeswari	BA (H.E.P)	3 rd Sem
A. Mahendra	(B.GA)	3 rd Sem
D. Rakesh	BACCA)	3 rd Sem
G. J.S Satyapara	BACA)	3 rd Sem
J. Madhav	BA(H.E.P)	3 rd Sem
C.H. Srishta	B.A (H.E.CA)	3 rd Sem
D. girija	B.A [H.E.CA]	3 rd Sem
M. Kavetha	BA [H.E.CA]	3 rd Sem
N. Mohankishora	BA [H.E.CA]	3 rd Sem

1. A. Pavani - B.com [C.A] 3rd SEM
2. A. Mahendra - B.com (C.A) 3rd SEM
3. A. Srinu - B.COM (C.A) 3rd SEM
4. B. Sireesha - B.com [C.A] 3rd SEM
5. B. Sivasankar - B.com (C.A) 3rd SEM
6. Ch. V. Jagadeesh - B.com (C.A) 3rd SEM
7. D. Rakesh - B.COM (C.A) 3rd SEM
8. D. Umakanth - B.com (C.A) 3rd SEM
9. B. Bhargav - B.com [C.A] 3rd SEM
10. G. C. S. Satyanarayana - B.com (C.A) 3rd SEM
11. N. Kavya - B.com [C.A] 3rd SEM
12. P. Varajai - B.com [C.A] 3rd SEM
13. K. Ramani Sahithya - B.com [C.A] 3rd SEM
14. K. Narendra - B.COM (C.A) 3rd SEM
15. K. Ramesh - B.com (C.A) 3rd SEM
16. O. Varalakshmi - B.com (C.A) 3rd SEM
17. V. Venkata Lakshmi - B.com (C.A) 3rd SEM
18. M. Nelima - B.com (C.A) 3rd SEM
19. N. Ramu - B.COM (C.A) 3rd SEM
20. N. Venkata Krishna - B.com (C.A) 3rd SEM

1. Revathi - BZC 3rd SEM
2. B. Bhuvaneshwari - BZC 3rd sem
3. B. Krupavathi - BZC 3rd sem
4. B. Swapna - B.Sc [B.Z.C] 3rd sem
5. P. Hemalatha - B.S.C [B.Z.C] 3rd SEM
6. E. Mallika - B.S.C [B.Z.C] 3rd sem
7. T. Jeevitha - B.S.C [B.Z.C] 3rd sem
8. B.L. Thulasi Meghana - B.S.C [B.Z.C] 3rd sem
9. D. Yeswanth - B.S.C [B.Z.C] 3rd SEM
10. C. Srilekha - B.S.C [B.Z.C] 3rd sem
11. C. Sai Nikhila - MPCs 3rd sem
12. G. Vikas - MPCs 3rd SEM
13. K. Kaveri - MPCs 3rd sem
14. X. Sai Sivani - MPCs 3rd sem
15. K. Charan - MPCs 3rd sem
16. N.V. Bhanu teja - MPCs 3rd sem
17. P. Jayakrishna - MPCs 3rd sem

PRR & VS GOVT.COLLEGE

VIDAVALUR, SPSR NELLORE DT.



DEPARTMENT OF BOTANY


PROGRAM & COURSE OUTCOMES

(2022-23)

Program Outcomes and Program Specific Outcomes---

Program	Program Outcome	Program Specific Outcomes
B.Sc. (BZC) Botany, Zoology, Chemistry	<p>>Expertise in the basic sciences provides the students with opportunities to go for Higher Education and also employment opportunities in industries, diagnostics, quality control and research.</p> <p>>Promotes an in-depth exploration in specific fields, current ways of thinking, new discoveries, and methodologies of the discipline leading the way towards biological research, health professions, business, or education</p>	<p>>Master fundamental skills to function effectively as professionals and continue learning within the field of Biology</p> <p>> Provides an understanding of an exploration of how animals have evolved, how they function, and the ways in which they interact with their environment.</p> <p>> An awareness of the impact of chemistry on the environment, society, appraise role of green chemistry in environment sustainability.</p>

Program outcomes and Course outcomes are announced to students of Sem - I, II, III, IV, V & VI of BZC Group students.


 LECTURER IN CHARGE
 DEPT. OF BOTANY
 PRR & VS GOVT. COLLEGE
 VIDAVALUR - 524318
 SRSR NELLORE DT

PRR & VS GOVT.COLLEGE

VIDAVALUR, SPSR NELLORE DT.



DEPARTMENT OF BOTANY

COURSE OUTCOMES

(2022-23)

DEPARTMENT OF BOTANY

I Semester -Botany Core Course - 1

Fundamentals of Microbes and Non-vascular Plants

(Viruses, Bacteria, Fungi, Lichens, Algae and Bryophytes)

Theory:

Learning Outcomes:

On successful completion of this course, the students will be able to:

- > Explain origin of life on the earth.
- > Illustrate diversity among the viruses and prokaryotic organisms and can categorize them.
- > Classify fungi, lichens, algae and bryophytes based on their structure, reproduction and life cycles.
- > Analyze and ascertain the plant disease symptoms due to viruses, bacteria and fungi.
- > Recall and explain the evolutionary trends among amphibians of plant kingdom for their shift to land habitat.
- > Evaluate the ecological and economic value of microbes, thallophytes and bryophytes

Practicals:

Course Outcomes:

On successful completion of this practical course, student shall be able to;

1. Demonstrate the techniques of use of lab equipment, preparing slides and identify the material and draw diagrams exactly as it appears.
2. Observe and identify microbes and lower groups of plants on their own.
3. Demonstrate the techniques of inoculation, preparation of media etc.
4. Identify the material in the permanent slides etc

S.V. ~~Castro~~ ~~Rao~~

B. Tejaswini

B. Lavanya

K. Jayashree

T. Sushanthika

SEMESTER -II -Core Course – 2

Basics of Vascular plants and Phytogeography

(Pteridophytes, Gymnosperms, Taxonomy of Angiosperms and Phytogeography)

Theory:

Learning Outcomes:

On successful completion of this course, the students will be able to:

- > Classify and compare Pteridophytes and Gymnosperms based on their morphology, anatomy, reproduction and life cycles.
- > Justify evolutionary trends in tracheophytes to adapt for land habitat.
- > Explain the process of fossilization and compare the characteristics of extinct and extant plants.
- > Critically understand various taxonomical aids for identification of Angiosperms.
- > Analyze the morphology of the most common Angiospermic plants of their localities and recognize their families.
- > Evaluate the ecological, ethnic and economic value of different tracheophytes and summarize their goods and services for human welfare.
- > Locate different phytogeographical regions of the world and India and can analyze their floristic wealth.

Practicals:

Course Outcomes:

On successful completion of this course students shall be able to:

1. Demonstrate the techniques of section cutting, preparing slides, identifying of the Material and drawing exact figures.
2. Compare and contrast the morphological, anatomical and reproductive features of vascular plants.
3. Identify the local angiosperms of the families prescribed to their genus and species level and prepare herbarium.
4. Exhibit skills of preparing slides, identifying the given twigs in the lab and drawing figures of plant twigs, flowers and floral diagrams as they are.
5. Prepare and preserve specimens of local wild plants using herbarium techniques.

S.V. GASTAN B. TEJASW
Keddy P. KARANYA
K. P. YELAKUMAR
I. S. S. K. K. K. K. K.

III Semester -Botany Core Course - 3

Anatomy and Embryology of Angiosperms, Plant Ecology and Biodiversity

Theory:

Learning outcomes:

On successful completion of this course, the students will be able to;

- Understand on the organization of tissues and tissue systems in plants.
- Illustrate and interpret various aspects of embryology.
- Discuss the basic concepts of plant ecology, and evaluate the effects of environmental and biotic factors on plant communities.
- Appraise various qualitative and quantitative parameters to study the population and community ecology.
- Correlate the importance of biodiversity and consequences due to its loss.
- Enlist the endemic/endangered flora and fauna from two biodiversity hot spots in India and assess strategies for their conservation

Practicals:

Course Outcomes:

On successful completion of this practical course students shall be able to:

1. Get familiarized with techniques of section making, staining and microscopic study of vegetative, anatomical and reproductive structure of plants.
2. Observe externally and under microscope, identify and draw exact diagrams of the material in the lab.
3. Demonstrate application of methods in plant ecology and conservation of biodiversity and qualitative and quantitative aspects related to populations and communities of plants.

D. Yashwanth
B. J. Mohan

A Revathi
B. Srinivas
E. Mallika
B. Hemalatha
T. Jeevitha

IV Semester-Botany Core Course – 4

Plant Physiology and Metabolism

Theory:

Learning outcomes:

On successful completion of this course, the students will be able to;

- Comprehend the importance of water in plant life and mechanisms for transport of water and solutes in plants.
- Evaluate the role of minerals in plant nutrition and their deficiency symptoms.
- Interpret the role of enzymes in plant metabolism.
- Critically understand the light reactions and carbon assimilation processes responsible for synthesis of food in plants.
- Analyse the biochemical reactions in relation to Nitrogen and lipid metabolisms. Evaluate the physiological factors that regulate growth and development in plants.
- Examine the role of light on flowering and explain physiology of plants under stress conditions.

Practicals:

Course outcomes:

On successful completion of this practical course, students shall be able to:

1. Conduct lab and field experiments pertaining to Plant Physiology, that is, biophysical and biochemical processes using related glassware, equipment, chemicals and plant material.
2. Estimate the quantities and qualitative expressions using experimental results and calculations
3. Demonstrate the factors responsible for growth and development in plants.

D. Yashwanth
B.T. Meghana

A. Devalathi
A. Anuradha
E.M. Alliea
A. Hemant
T. Jeevitha

IV Semester -Botany Core Course –5

Cell Biology, Genetics and Plant Breeding

Theory:

Learning outcomes:

On successful completion of this course, the students will be able to:

- Distinguish prokaryotic and eukaryotic cells and design the model of a cell.
- Explain the organization of a eukaryotic chromosome and the structure of genetic material.
- Demonstrate techniques to observe the cell and its components under a microscope.
- Discuss the basics of Mendelian genetics, its variations and interpret inheritance of traits in living beings.
- Elucidate the role of extra-chromosomal genetic material for inheritance of characters.
- Evaluate the structure, function and regulation of genetic material. Understand the application of principles and modern techniques in plant breeding.
- Explain the procedures of selection and hybridization for improvement of crops.

Practicals:

Course Outcomes:

After successful completion of this practical course the student shall be able to:

1. Show the understanding of techniques of demonstrating Mitosis and Meiosis in the laboratory and identify different stages of cell division.
2. Identify and explain with diagram the cellular parts of a cell from a model or picture and prepare models
3. Solve the problems related to crosses and gene interactions.
4. Demonstrate plant breeding techniques such as emasculation and bagging

D. Yelchankar
B. T. Maspham

A. Revolta
R. Sampath
E. Mallik
P. Hemant
T. Jeevitha

V Semester -Botany Core Course –6A

Plant Propagation (Skill Enhancement Course (Elective))

Learning Outcomes:

1. Students at the successful completion of the course will be able to: 1. Explain various plant propagation structures and their utilization.
2. Understand advantages and disadvantages of vegetative, asexual and sexual plant propagation methods.
3. Assess the benefits of asexual propagation of certain economically valuable plants using apomictics and adventive polyembryony.
4. Demonstrate skills related to vegetative plant propagation techniques such as cuttings, layering, grafting and budding.
5. Apply a specific macro-propagation technique for a given plant species

Practical

Learning Outcomes:

On successful completion of this practical course, student will be able to:

1. Make use of different plant propagation structures for plant multiplication.
2. Explore the specialized organs or asexual propagules in some plants for their proliferation.
3. Demonstrate skills on micropropagation of plants through vegetative propagation techniques.
4. Evaluate and use a suitable propagation technique for a given plant species.

1. A. Lahari
2. S. Vindhya.
3. B. Sowmya
4. P. Kavya
5. M. Vinuthasree.
6. Sk. Es hapharvez.

V Semester -Botany Core Course –7A

Seed Technology (Skill Enhancement Course (Elective))

Learning outcomes:

Students at the successful completion of the course will be able to:

1. Explain the causes for seed dormancy and methods to break dormancy.
2. Understand critical concepts of seed processing and seed storage procedures.
3. Acquire skills related to various seed testing methods.
4. Identify seed borne pathogens and prescribe methods to control them.
5. Understand the legislations on seed production and procedure of seed certification.

Practical:

Learning Outcomes:

On successful completion of this practical course, student will be able to:

1. Demonstrate skills on various methods to break the seed dormancy.
2. Determine seed moisture, seed germination percentage, seed viability and vigour.
3. Identify the seed borne pathogens and prescribe methods to prevent or control them.
4. Evaluate various methods to produce healthy seeds.

1. A. Lahasi
2. S. Vholiya
3. B. Sowmya
4. P. Kavya
5. M. Vitharana
6. Ek. Shapharner

(W.E.B. 2020-21 Approved Batch)

I Year B Com (Gen & CA)–Semester – I
Course IA: Fundamentals of Accounting

Learning Outcomes:

At the end of the course, the student will able to

- Identify transactions and events that need to be recorded in the books of accounts.
- Equip with the knowledge of accounting process and preparation of final accounts of sole trader.
- Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP.
- Analyze the difference between cash book and pass book in terms of balance and make reconciliation.
- Critically examine the balance sheets of a sole trader for different accounting periods.
- Design new accounting formulas & principles for business organisations.

I Year B Com (Gen & CA) – Semester – I
Course 1B: Business Organization and Management

Learning Outcomes:

At the end of the course, the student will be able to

- Understand different forms of business organizations.
- Comprehend the nature of Joint Stock Company and formalities to promote a Company.
- Describe the Social Responsibility of Business towards the society.
- Critically examine the various organizations of the business firms and judge the best among them.
- Design and plan to register a business firm. Prepare different documents to register a company at his own.
- Articulate new models of business organizations.

I Year B Com (Gen & CA)– Semester – II
Course 2A: Financial Accounting

Learning Outcomes:

At the end of the course the student will be able to:

- Understand the concept of consignment and learn the accounting treatment of the various aspects of consignment.
- Analyze the accounting process and preparation of accounts in consignment and joint venture.
- Distinguish Joint Venture and Partnership and to learn the methods of maintaining records under Joint Venture.
- Determine the useful life and value of the depreciable assets and maintenance of Reserves in business entities.
- Design an accounting system for different models of businesses at his own using the principles of existing accounting system.

I Year B Com (Gen & CA)– Semester – II

Course 2B: Business Economics

Learning Outcomes:

At the end of the course, the student will able to;

- Describe the nature of economics in dealing with the issues of scarcity of resources.
- Analyze supply and demand analysis and its impact on consumer behaviour.
- Evaluate the factors, such as production and costs affecting firms behaviour.
- Recognize market failure and the role of government in dealing with those failures.
- Use economic analysis to evaluate controversial issues and policies.
- Apply economic models for managerial problems, identify their relationships, and formulate the decision making tools to be applied for business.

II Year B Com (Gen &CA)- Semester – III

Course 3A:Advanced Accounting

Learning Outcomes:

At the end of the course, the student will able to;

- Understand the concept of Non-profit organisations and its accounting process
- Comprehend the concept of single-entry system and preparation of statement of affairs
- Familiarize with the legal formalities at the time of dissolution of the firm
- Prepare financial statements for partnership firm on dissolution of the firm.
- Employ critical thinking skills to understand the difference between the dissolution of the firm and dissolution of partnership

II Year B Com (Gen & CA)– Semester – III
Course 3B: Business Statistics

Learning Outcomes:

At the end of the course, the student will be able to;

- Understand the importance of Statistics in real life
- Formulate complete, concise, and correct mathematical proofs.
- Frame problems using multiple mathematical and statistical tools, measuring relationships by using standard techniques.
- Build and assess data-based models.
- Learn and apply the statistical tools in day life.
- Create quantitative models to solve real world problems in appropriate contexts.

II Year B Com (Gen & CA)– Semester – IV
Course 4A: Corporate Accounting

Learning Outcomes:

At the end of the course, the student will able to;

- Understand the Accounting treatment of Share Capital and aware of process of book building.
- Demonstrate the procedure for issue of bonus shares and buyback of shares.
- Comprehend the important provisions of Companies Act, 2013 and prepare final accounts of a company with Adjustments.
- Participate in the preparation of consolidated accounts for a corporate group.
- Understand analysis of complex issues, formulation of well-reasoned arguments and reaching better conclusions.
- Communicate accounting policy choices with reference to relevant laws and accounting standards.

II Year B Com (Gen & CA)– Semester – IV
Course 4B: Cost and Management Accounting

Learning Outcomes:

At the end of the course, the student will able to;

- Understand various costing methods and management techniques.
- Apply Cost and Management accounting methods for both manufacturing and service industry.
- Prepare cost sheet, quotations, and tenders to organization for different works.
- Analyze cost-volume-profit techniques to determine optimal managerial decisions.
- Compare and contrast the financial statements of firms and interpret the results.
- Prepare analysis of various special decisions, using relevant management techniques.

II Year B Com (Gen& CA)– Semester – IV
Course 4C:Income Tax

Learning Outcomes:

At the end of the course, the student will able to;

- Acquire the complete knowledge of the tax evasion, tax avoidance and tax planning.
- Understand the provisions and compute income tax for various sources.
- Grasp amendments made from time to time in Finance Act.
- Compute total income and define tax complicacies and structure.
- Prepare and File IT returns of individual at his own.

II Year B Com (Gen & CA)– Semester – IV

Course 4D:Business Law

Learning Outcomes:

At the end of the course, the student will able to;

- Understand the legal environment of business and laws of business.
- Highlight the security aspects in the present cyber-crime scenario.
- Apply basic legal knowledge to business transactions.
- Understand the various provisions of Company Law.
- Engage critical thinking to predict outcomes and recommend appropriate action on issues relating to business associations and legal issues.
- Integrate concept of business law with foreign trade.

II Year B Com (Gen& CA)– Semester – IV

Course 4E: Auditing

Learning Outcomes:

At the end of the course, the student will able to;

- Understanding the meaning and necessity of audit in modern era
- Comprehend the role of auditor in avoiding the corporate frauds
- Identify the steps involved in performing audit process
- Determine the appropriate audit report for a given audit situation
- Apply auditing practices to different types of business entities
- Plan an audit by considering concepts of evidence, risk and materiality

PRR & VS GOVERNMENT COLLEGE

VIDAVALUR::SPSR NELLORE DIST. A.P

(Accredited with B Grade by NAAC)

DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS



COURSE OUTCOMES

(2022-23)

PRR & VS GOVERNMENT COLLEGE, VIDAVALUR

DEPARTMENT OF COMPUTER SCIENCE

COURSE C1: PROBLEM SOLVING IN C

I Year B.Sc , Semester- I

COURSE OUTCOMES

Upon successful completion of the course, a student will be able to:

1. Understand the evolution and functionality of a Digital Computer.
2. Apply logical skills to analyse a given problem
3. Develop an algorithm for solving a given problem.
4. Understand 'C' language constructs like Iterative statements, Array processing, Pointers, etc.
5. Apply 'C' language constructs to the algorithms to write a 'C' language program.

Name of the students:

1. S. GANGA BHAVANI
- S. Ganga bhavani
2. K. Sireesha
- K. Sireesha
3. J. PAVANI
- J. Pavani

PRR & VS GOVERNMENT COLLEGE, VIDAVALUR

DEPARTMENT OF COMPUTER SCIENCE

COURSE C2: DATA STRUCTURE USING C

I Year B.Sc , Semester-2

COURSE OUTCOMES

Upon successful completion of the course, a student will be able to:

1. Understand available Data Structures for data storage and processing.
2. Comprehend Data Structure and their real-time applications - Stack, Queue, Linked List, Trees and Graph
3. Choose a suitable Data Structures for an application
4. Develop ability to implement different Sorting and Search methods
5. Have knowledge on Data Structures basic operations like insert, delete, search, update and traversal
6. Design and develop programs using various data structures
7. Implement the applications of algorithms for sorting, pattern matching etc

NAME OF THE STUDENTS :

1. B. MANASA - B. Manasa
2. J. PAVANI - J. Pavani
3. T. PAVAN - T. Pavan

PRR & VS GOVERNMENT COLLEGE, VIDAVALUR

DEPARTMENT OF COMPUTER SCIENCE

COURSE C3: DATABASE MANAGEMENT

II Year B.Sc, Semester- III

COURSE OUTCOMES

On completing the subject, students will be able to:

1. Gain knowledge of Database and DBMS.
2. Understand the fundamental concepts of DBMS with special emphasis on relational data model.
3. Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database
4. Model database using ER Diagrams and design database schemas based on the model.
5. Create a small database using SQL.
6. Store, Retrieve data in database.

NAME OF THE STUDENTS :

1. K. SAI SIVANI - K. Sai sivani
2. K. KAVERI - K. Kaveri

PRR & VS GOVERNMENT COLLEGE, VIDAVALUR

DEPARTMENT OF COMPUTER SCIENCE

COURSE C4: OBJECT ORIENTED PROGRAMMING THROUGH JAVA

II Year B.Sc, Semester- IV

COURSE OUTCOMES

At the end of this course student will:

1. Understand the benefits of a well-structured program
2. Understand different computer programming paradigms
3. Understand underlying principles of Object-Oriented Programming in Java
4. Develop problem-solving and programming skills using OOP concepts
5. Develop the ability to solve real-world problems through software development in high-level programming language like Java

NAME OF THE STUDENTS :

1. G. VIKAS - G. Vikas

2. CH. CHARAN - CH. Charan

PRR & VS GOVERNMENT COLLEGE, VIDAVALUR

DEPARTMENT OF COMPUTER SCIENCE

COURSE C5: OPERATING SYSTEM

II Year B.Sc, Semester- IV

COURSE OUTCOMES

Upon successful completion of the course, a student will be able to:

1. Know Computer system resources and the role of operating system in resource management with algorithms
2. Understand Operating System Architectural design and its services.
3. Gain knowledge of various types of operating systems including Unix and Android.
4. Understand various process management concepts including scheduling, synchronization, and deadlocks.
5. Have a basic knowledge about multithreading.
6. Comprehend different approaches for memory management.
7. Understand and identify potential threats to operating systems and the security features design to guard against them.
8. Specify objectives of modern operating systems and describe how operating systems have evolved over time.
9. Describe the functions of a contemporary operating system.

NAME OF THE STUDENTS:

1. G. VIKAS - G. Vikas
2. K. KAVERI - K. Kaveri

A.P. State Council of Higher Education
Semester-wise Revised Syllabus under CBCS, 2020-21

Course Code:

Four-year B.Sc.(Hons)

Domain Subject: Computer Science III Year B.Sc.(Hons)-sem-v

Max Marks: 100 + 50

Course 6A: Web Interface Designing Technologies
(Skill Enhancement Course (Elective), Credits: 05)

I. Learning Outcomes: Students after successful completion of the course will be able to:

1. Understand and appreciate the web architecture and services.
2. Gain knowledge about various components of a website.
3. Demonstrate skills regarding creation of a static website and an interface to dynamic website.
4. Learn how to install word press and gain the knowledge of installing various pluginsto use in their websites.

Name of students: 1 CH.HARITHA

- CH. Haritha

2.M HEMALATHA

- M. Hemalatha

3.CH DEVA KUMAR

- CH. Deva Kumar

PRR & VS GOVERNMENT COLLEGE, VIDAVALUR

DEPARTMENT OF COMPUTER APPLICATIONS

COURSE 1C: INFORMATION TECHNOLOGY

1 Year B Com CA), S e m - I

Course-Outcomes

At the end of the course, the students is expected to DEMONSTRATE the following cognitive abilities(thinking skill) and psychomotor skills.

A. *Remembers and states in a systematic way (Knowledge)*

1. Describe the fundamental hardware components that make up a computer's hardware and the role of each of these components
2. understand the difference between an operating system and an application program, and what each is used for in a computer
3. Use technology ethically, safely, securely, and legally
4. Use systems development, word-processing, spreadsheet, and presentation software to solve basic information systems problems

B. *Explains (Understanding)*

5. Apply standard statistical inference procedures to draw conclusions from data
6. Retrieve information and create reports from databases
7. Interpret, produce, and present work-related documents and information effectively and accurately

C. *Critically examines, using data and figures (Analysis and Evaluation)**)*

8. Analyse compression techniques and file formats to determine effective ways of securing, managing, and transferring data
9. Identify and analyse user needs and to take them into account in the selection, creation, integration, evaluation, and administration of computing based systems.

10. Analyse a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

11. Identify and analyse computer hardware, software

D. *Working in 'Outside Syllabus Area' under a Co-curricular Activity (Creativity)*

Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.

E. Efficiently learn and use Microsoft Office applications.

NAME OF THE STUDENTS:

1. J. NEELIMA - J. Neelima

2. K. SUKUMAR - K. Sukumar

PRR & VS GOVERNMENT COLLEGE, VIDAVALUR

DEPARTMENT OF COMPUTER APPLICATIONS

COURSE 2C: E-COMMERCE & WEB DESIGNING

I Year B Com (CA),

Semester- II

COURSE OUTCOMES

At the end of the course, the students is expected to DEMONSTRATE the following cognitive abilities(thinking skill) and psychomotor skills.

A. Remembers and states in a systematic way (Knowledge)

1. Understand the foundations and importance of E-commerce
2. Define Internet trading relationships including Business to Consumer, Business-to-Business, Intra-organizational
3. Describe the infrastructure for E-commerce
4. Discuss legal issues and privacy in E-Commerce
5. Understand the principles of creating an effective web page, including an in-depth consideration of information architecture

B. Explains (Understanding)

6. Recognize and discuss global E-commerce issues
7. Learn the language of the web: HTML

C. Critically examines, using data and figures (Analysis and Evaluation)

8. Analyze the impact of E-commerce on business models and strategy
9. Assess electronic payment systems
10. Exploring a web development framework as an implementation example and create dynamically generated web site complete with user accounts, page level security, modular design using css

D. Working in 'Outside Syllabus Area' under a Co-curricular

Activity (Creativity) Use the Systems Design Approach to implement websites with the following steps:

NAME OF THE STUDENTS :

1. R. RAJENDRA - R. Rajendra

2. M. PRAVALLIKA

- M. Pravalika

- Define purpose of the site and subsections
 - Identify the audience
 - Design and/or collect site content
 - Design the website theme and navigational structure
 - Design & develop web pages including: Hyperlinks, Lists, Tables, Frames, Forms, Images, Behaviours
- E* Build a site based on the design decisions and progressively incorporate tools and techniques covered

PRR & VS GOVERNMENT COLLEGE, VIDAVALUR

DEPARTMENT OF COMPUTER APPLICATIONS

COURSE 3C: PROGRAMMING WITH C & C++

II Year B Com (CA), S E M - III

COURSE-OUTCOMES

At the end of the course, the students is expected to DEMONSTRATE the following cognitiveabilities (thinking skill) and psychomotor skills.

A. *Remembers and states in a systematic way (Knowledge)*

1. Develop programming skills
2. Declaration of variables and constants use of operators and expressions
3. learn the syntax and semantics of programming language
4. Be familiar with programming environment of C and C++
5. Ability to work with textual information (characters and strings) & arrays

B. *Explains (Understanding)*

6. Understanding a functional hierarchical code organization
7. Understanding a concept of object thinking within the framework of functional model
8. Write program on a computer, edit, compile, debug, correct, recompile and run it

C. *Critically examines, using data and figures (Analysis and Evaluation)*

9. Choose the right data representation formats based on the requirements of the problem
10. Analyze how C++ improves C with object-oriented features
11. Evaluate comparisons and limitations of the various programming constructs and choosecorrectone for the task in hand.

D. *Working in 'Outside Syllabus Area' under a Co-curricular Activity(Creativity)*

Planning of structure and content, writing, updating and modifying computer programs foruser solutions

E. *Exploring C programming and Design C++ classes for code reuse (Practical skills***)*

NAME OF THE STUDENTS!

1. P. VANAJA - P. Vanaja

2. U. VARAMMA
- U. Varamma

A.P. State Council of Higher Education
Semester-wise Revised Syllabus under CBCS, 2020-21
Four-year B.COM. (CA) -V Semester from 2022-23)

Max Marks: 100+ 50

Domain Subject: Computer Applications for Sciences

IV Year B. Sc./B.Com. – Semester – V
Course-6C: E- Commerce Application Development
(Skill Enhancement Course (Elective), 5 credits)

Learning Outcomes:

Upon successful completion of the course, a student will be able to:

1. To apply in an integrative and summative fashion the students' knowledge in all fields of business studies by drafting a website presence plan.
2. To understand the factors needed in order to be a successful in ecommerce
3. To gain the skills to bring together knowledge gathered about the different components of building a web presence
4. To critically think about problems and issues that might pop up during the establishment of the web presence
5. To apply Word Press as a content management system (CMS). Plan their website by choosing colour schemes, fonts, layouts, and more

Name of students: 1. CH. MARYLATHA

2. M SWAPNA

3. CH JYOTHISH

- CH. Mary Latha

- M. Swapna

- CH. Jyothish

A.P. State Council of Higher Education

Semester-wise Revised Syllabus under CBCS, 2020-21

Four-year B.COM. (CA) -V Semester from 2022-23)

Course Code:

Max Marks: 100 + 50

Domain Subject: Computer Applications for Sciences

Course-7C: REAL TIME GOVERNANCE SYSTEM (RTGS)
(Skill Enhancement Course (Elective), 5 credits)

COURSE OUTCOMES:

Upon successful completion of this course, students will have the knowledge and skills to

1. Understand the terms regarding Governance, E-Governance and RTGS
2. Learn about E-Governance Infrastructure
3. Understand the E-Governance implementation in several countries
4. Understand the E-Governance implementation in several Indian states
5. Understand the applications of RTG

Name of students: 1 M.MARY LATHA - m. Mary Latha
2. CH SWAPNA - CH. Swapna
3. P JYOTHISH - P. Jothish

PRR & VS Government College



Vidavalur

Department of English

UG Course Outcomes

(2022-23)



PRR & VS Government College, Vidavalur
Department of English

UG COURSE OUTCOMES (2022-23)

GENERAL ENGLISH
I Semester

Part I Another Language – English Praxis Course - I

1011 ENG20: A Course in Communication and Soft Skills

A student who studies this course

- Use grammar effectively in writing and speaking.
- Demonstrate the use of good vocabulary
- Demonstrate an understating of writing skills
- Acquire ability to use Soft Skills in professional and daily life.
- Confidently use the tools of communication skills

msy
1/19/22

B. Gu-

Semester I

- 1) T. Pavan BSC (MPCS)
- 2) U. MUNIKRISHNA Bsc [MPCS]
3. B. Manasa B.sc [MPCS]
4. S. Ganga Bhavani BSC [MPCS]
5. K. Sireesha BSC (MPCS)
6. M. Kalyani Bsc [MPCS]
7. J. pavani BSC [MPCS]
8. S. Raghavendra BSC [MPCS]
9. D. Jagadeesh BSC [MPCS]
10. B. Tejasree BSC [B2C]
11. B. Lavanya BSC [B2C]
12. K. Jayalakshmi BSC [B2C]
13. T. sudhalarakshmi BSC [B2C]
14. SK. Raheem BA [HEP]
15. S. Haseesh BA [HEP]
16. Vishnu Priya BA [HEP]
17. ASwanth BA [HEP]
18. D. Vinodh Kumar BA [HEP]
19. P. Rajendra B.COM [CA]
20. J. Manikanta B.COM [CA]
21. P. South Kumar B.COM [CA]
22. S. Yaswanth B.COM [CA]
23. S. Yaswanth B.COM [CA]
24. G. Shankar B.COM [CA]
25. K. Sukumar B.COM [CA]

T. Pavan

U. MUNIKRISHNA

B. Manasa

S. Ganga Bhavani

K. Sireesha

M. Kalyani

J. pavani

S. Raghavendra

D. Jagadeesh

B. Tejasree

B. Lavanya

K. Jayalakshmi

T. sudhalarakshmi

SK. Raheem

S. Haseesh

Vishnu Priya

ASwanth

D. Vinodh Kumar

Rajendra

J. Manikanta

P. South Kumar

S. Yaswanth

S. Yaswanth

G. Shankar

K. Sukumar

PRR & VS Government College, Vidavalur
Department of English

UG COURSE OUTCOMES

II Semester

Part I Another Language – English Praxis Course - II
2011 ENG20: A Course in Reading and Writing Skills

A student who studies this course

- Use reading skills effectively
- Comprehend different texts
- Interpret different types of texts
- Analyse what is being read
- Build up a repository of active vocabulary
- Use good writing strategies
- Write well for any purpose
- Improve writing skills independently for future needs

2042SDC20: Business Communication

A student who studies this course

- Understand the types of business communication and correspondence
- Comprehend the processes like receiving, filing and replying
- Acquire knowledge in preparing good business communications
- Acquaint with organizational communication requirements and presentations.

B. Gu

July
7/2/23

SEMESTER - 2

- | | | |
|---------------------|-------------|------------------|
| 1) T. Pavan | BSC (MPCS) | T. Pavan |
| 2) U. MUNIKRISHNA | Bsc [MPCS] | U. Muni Krishna |
| 3. B. Manasa | B.SC [MPCS] | B. Manasa |
| 4. S. Ganga Bhavani | Bsc [MPCS] | S. Ganga Bhavani |
| 5. K. Sireesta | BSC [MPCS] | K. Sireesta |
| 6. M. Kalyani | B.SC [MPCS] | M. Kalyani |
| 7. J. Pavani | B-SC [MPCS] | J. Pavani |
| 8. S. Raghavendra | [B-SC MPCS] | S. Raghavendra |
| 9. D. Jagadeesh | [BSC MPCS] | D. Jagadeesh |
| 10. B. Tejasree | B-SC [BZE] | B. Tejasree |
| 11. B. Lavanya | Bsc [BZC] | B. Lavanya |
| 12. K. Jayalakshmi | BSC [BZC] | K. Jayalakshmi |
| 13. T. Sudhalakshmi | BSC [BZC] | T. Sudhalakshmi |
| 14. SK. Raheem | | SK. Raheem |
| 15. S. Haseesh | BA [HEP] | S. Haseesh |
| 16. Vishnu Priya | BA [HEP] | Vishnu Priya |
| 17. Aswath | BA [HEP] | Aswath |
| 18. D. Vinuth Kumar | BA [HEP] | D. Vinuth Kumar |

PRR & VS Government College, Vidavalur
Department of English

UG COURSE OUTCOMES
III Semester

Part I Another Language – English Praxis Course - III

3011 ENG20: A Course in Conversational Skills

A student who studies this course

- Speak fluently in English
- Participate confidently in any social interaction
- Face any professional discourse
- Demonstrate critical thinking
- Enhance conversational skills by observing the professional interviews

Handwritten signature
14/9/22

B. J.

V. Bhavana	BA(H.E.P)	3 rd sem
G. Gowthami	BA (H.E.P)	3 rd sem
ch. Anusha	BA (H.E.P)	3 rd sem
B. Divya	B.A(H.E.P)	3 rd sem
G. Sumalatha	B.A [H.E.P]	3 rd sem
ch. Sreedevi	BA [H.E.P]	3 rd sem
M. Ruadmi	BA (H.E.CA)	3 rd sem
D. Manjesh Babu	BA(H.E.P)	3 rd sem
E Devasree	BA (H.E.P)	3 rd sem
k. Rajeswari	BA (H.E.P)	3 rd sem
A. Mahendra	(B.G.A)	3 rd sem
D. Rakesh	BACCA)	3 rd sem
G. S S Sathyaarama	BACA)	3 rd sem
J. Madhav	BA(H.E.P)	3 rd sem
C.H. Srisritha	B.A (H.E.CA)	3 rd sem
D. girija	B.A [H.E.CA]	3 rd sem
M. Kavetha	BA [H.E.CA]	3 rd sem
N. Mohan Kishora	BA [H.E.CA]	3 rd sem

1. A. Pavani - B.com [C.A] 3rd SEM
2. A. Mahendra - B.com (C.A) 3rd SEM
3. A. Srinu - B.COM (C.A) 3rd SEM
4. B. Sireesha - B.com [C.A] 3rd SEM
5. B. Sivasankar - B.com (C.A) 3rd SEM
6. Ch. V. Jagadeesh - B.com (C.A) 3rd SEM
7. D. Rakesh - B.COM (C.A) 3rd SEM
8. D. Umakanth - B.com (C.A) 3rd SEM
9. B. Bhargav - B.com [C.A] 3rd SEM
10. G. C. S. Satyanarayana - B.com (C.A) 3rd SEM
11. N. Kaya - B.com [C.A] 3rd SEM
12. P. Varajai - B.com [C.A] 3rd SEM
13. K. Ramani Sahithya - B.com [C.A] 3rd SEM
14. K. Narendra - B.COM [C.A] 3rd SEM
15. K. Ramesh - B.com (C.A) 3rd SEM
16. O. Varalakshmi - B.com (C.A) 3rd SEM
17. V. Venkata Lakshmi - B.com (C.A) 3rd SEM
18. M. Nelima - B.com (C.A) 3rd SEM
19. N. Ramu - B.COM [C.A] 3rd SEM
20. N. Venkata Krishna - B.com (C.A) 3rd SEM

1. Revathi - BZC 3rd SEM
2. B. Bhuvaneshwari - BZC 3rd sem
3. B. Krupavathi - BZC 3rd sem
4. B. Swapna - B.Sc [B.Z.C] 3rd sem
5. P. Hemalatha - B.S.C [B.Z.C] 3rd SEM
6. E. Mallika - B.S.C [B.Z.C] 3rd sem
7. T. Jeevitha - B.S.C [B.Z.C] 3rd sem
8. B. L. Thulasi Meghana - B.S.C [B.Z.C] 3rd sem
9. D. Yeswanth - B.S.C [B.Z.C] 3rd SEM
10. C. Srileka - B.S.C [B.Z.C] 3rd SEM
11. C. Sai Nikhila - MPCs 3rd sem
12. G. Vikas - MPCs 3rd SEM
13. K. Kaveri - MPCs 3rd SEM
14. Sai Sivani - MPCs 3rd sem
15. K. Charan - MPCs 3rd sem
16. N. V. Bhanu teja - MPCs 3rd sem
17. P. Jayakrishna - MPCs 3rd sem

PRR & VS GOVT.COLLEGE

VIDAVALUR, SPSR NELLORE DT.



DEPARTMENT OF MATHEMATICS

Course outcomes

(2022-23)

SEMESTER-I, PAPER-I

CBCS/ SEMESTER SYSTEM /B.Sc. MATHEMATICS

DIFFERENTIAL EQUATIONS

Course Outcomes:

After successful completion of this course, the student will be able to;

1. Solve linear differential equations
2. Convert non exact homogeneous equations to exact differential equations by using integrating factors.
3. Know the methods of finding solutions of differential equations of the first order but not of the first degree.
4. Solve higher-order linear differential equations, both homogeneous and non homogeneous, with constant coefficients.
5. Understand the concept and apply appropriate methods for solving differential equations.

<u>Name</u>	<u>Sign</u>	<u>Group</u>
1. T. Pavan	T. Pavan	I BSc (MPCs)
2. J. PAVANI	J. PAVANI	I BSc (MPCs)
3. S. Ganga Bhavani	S. Ganga Bhavani	I BSc (MPCs)
4. B. Manasa	B. Manasa	I B.Sc (MPCs)
5. M. KALYANI	M. Kalyani	I B.Sc (MPCs)
6. K. Sireesha	K. Sireesha	I B.Sc (MPCs)
7. U. MUNI KRISHNA	U. Muni Krishna	I BSc (MPCs)
8. B. Raghavendra	B. Raghavendra	I BSc (MPCs)

B. [Signature]
PRINCIPAL
PRR & VS GOVT. COLLEGE
VIDAVALUR - 524318.
SPPB NELLORE DT

SEMSTER-II, PAPER-II

CBCS/ SEMESTER SYSTEM B.Sc. MATHEMATICS

THREE DIMENSIONAL ANALYTICAL SOLID GEOMETRY

Course Outcomes: After successful completion of this course, the student will be able to;

1. Get the knowledge of planes.
2. Basic idea of lines, sphere and cones.
3. Understand the properties of planes, lines, spheres and cones.
4. Express the problems geometrically and then to get the solution.

Name	Sign	group
1. B. Manasa	B. Manasa	I B.Sc [MPCS]
2. S. Gangabhavani	S. Gangabhavani	I BSC (MPCS)
3. J. pavani	J. pavani	I BSC (MPCS)
4. S. Raghavendra	S. Raghavendra	I Bsc [MPCS]
5. K. Sireesta	K. Sireesta	I. BSC (MPCS)
6. U. MUNIKRISHNA	U. Muni krishna	I Bsc [MPCS]
7. M. KALYANI	M. Kalyani	I BSC (MPCS)
8. T. Pavan	T. Pavan	I BSC (MPCS)

B. [Signature]
PRINCIPAL
PRR & VS GOVT. COLLEGE
VIDAVALUR - 524318
SPSR NELLORE DT.

SEMESTER-III, PAPER-III

CBCS/ SEMESTER SYSTEM B.Sc. MATHEMATICS

ABSTRACT ALGEBRA

Course Outcomes: After successful completion of this course, the student will be able to;

1. acquire the basic knowledge and structure of groups, subgroups and cyclic groups.
2. get the significance of the notation of a normal subgroups.
3. get the behavior of permutations and operations on them.
4. study the homomorphisms and isomorphisms with applications.
5. understand the ring theory concepts with the help of knowledge in group theory and to prove the theorems.
6. understand the applications of ring theory in various fields.

Name	Sing	group
1. U. MUNI KRISHNA	U. Muni Krishna	I B.Sc [MPCS]
2. J. PAVANI	J. Pavani	II BSC (MPCS)
3. B. Mahasa	B. Mahasa	II B.S.C [MPCS]
4. K. Sireesha	K. Sireesha	II B.S.C [MPCS]
5. T. PAVAN	T. Pavan	II BSC (MRS)
6. M. KALYANI	M. Kalyani	II Bsc (mPCS)
7. S. Ganga Bhavani	S. Ganga Bhavani	I BSC (MPCS)
8. S. Raghavendra	S. Raghavendra	II Bsc [MPCS]

B. Gu

PRINCIPAL
PRR & VS GOVT. COLLEGE
VIDAVALUR - 524310,
SPSR NELLORE DT.

SEMESTER -IV - PAPER - IV
CBCS/ SEMESTER SYSTEM B.Sc. MATHEMATICS
REAL ANALYSIS

- Course Outcomes:** After successful completion of this course, the student will be able to
1. get clear idea about the real numbers and real valued functions.
 2. obtain the skills of analyzing the concepts and applying appropriate methods for testing convergence of a sequence/ series.
 3. test the continuity and differentiability and Riemann integration of a function.
 4. know the geometrical interpretation of mean value theorems.

Name	Sign	group
1. S. Raghavendra	S. Raghavendra	I BSc (MPC)
2. T. Pavan	T. Pavan	II BSc (MPC)
3. K. Sireesha	K. Sireesha	II B.Sc (MPC)
4. J. Pavani	J. Pavani	II B.Sc (MPC)
5. B. Manasa	B. Manasa	II B.Sc (MPC)
6. M. Kalyani	M. Kalyani	II B.Sc (MPC)
7. U. Muni Krishna	U. Muni Krishna	II BSc (MPC)
8. S. Ganga Bhavani	S. Ganga Bhavani	II BSc (MPC)


 PRINCIPAL
 PRR & VS GOVT. COLLEGE
 VIDAVALUR - 524318.
 SPSR NELLORE DT.

SEMESTER - IV, PAPER - V

CBCS/ SEMESTER SYSTEM/B.Sc. MATHEMATICS


LINEAR ALGEBRA

Course Outcomes:

After successful completion of this course, the student will be able to;

1. understand the concepts of vector spaces, subspaces, basis, dimension and their properties
2. understand the concepts of linear transformations and their properties
3. apply Cayley- Hamilton theorem to problems for finding the inverse of a matrix and higher powers of matrices without using routine methods
4. learn the properties of inner product spaces and determine orthogonality in inner product spaces.

Name	Sign	Group
1. S. Ganga Bhavani	S. Ganga Bhavani	I B.Sc (MPC)
2. B. Manasa	B. Manasa	II B.Sc (MPC)
3. m. KALYANI	m. Kalyani	II BSC (MPC)
4. T. Pavan	T. Pavan	II BSC (MPC)
5. K. Sireesha	K. Sireesha	II BSC (MPC)
6. J. Pavani	J. Pavani	I BSC (MPC)
7. S. Raghavendra	S. Raghavendra	II BSC (MPC)
8. U. MUNI KRISHNA	U. Muni Krishna	I BSC MPC

B. 
PRINCIPAL
PRR & VS GOVT. COLLEGE
VIDAVALUR - 524318.
SPSR NELLORE DT.

SEMESTER - V, PAPER - 6B

CBCS/ SEMESTER SYSTEM/B.Sc. MATHEMATICS

Multiple integrals and applications of Vector calculus

Course Outcomes: Students after successful completion of the course will be able to

1. Learn multiple integrals as a natural extension of definite integral to a function of two variables in the case of double integral / three variables in the case of triple integral.
2. Learn applications in terms of finding surface area by double integral and volume by triple integral.
3. Determine the gradient, divergence and curl of a vector and vector identities.
4. Evaluate line, surface and volume integrals.
5. understand relation between surface and volume integrals (Gauss divergence theorem), relation between line integral and volume integral (Green's theorem), relation between line and surface integral (Stokes theorem)

Name	Sign	group
1. T. Pavam	T. Pavam	III BSc (MPCs)
2. M. KALYANI	M. Kalyani	III BSc (MPCs)
3. J. Pavani	J. Pavani	III BSc (MPCs)
4. S Ganga Bhavani	S Ganga Bhavani	III BSc (MPCs)
5. U. MUNI KRISHNA	U. Muni Krishna	III BSc (MPCs)
6. S. Raghavendra	S. Raghavendra	III BSc (MPCs)
7. B. Manasa	B. Manasa	II B.Sc (MPCs)
8. K. Sireesta	K. Sireesta	II B.Sc (MPCs)

B. Sireesta

PRINCIPAL
PRR & VS GOVT. COLLEGE
VIDAVALUR - 624318.
SPSR NELLORE DT.

SEMESTER - V, PAPER - 7B

CBCS/ SEMESTER SYSTEM/B.Sc. MATHEMATICS

Integral transforms with applications

Course Outcomes: Students after successful completion of the course will be able to

1. Evaluate Laplace transforms of certain functions, find Laplace transforms of derivatives and of integrals.
2. Determine properties of Laplace transform which may be solved by application of special functions namely Dirac delta function, error function, Bessel function and periodic function.
3. Understand properties of inverse Laplace transforms, find inverse Laplace transforms of derivatives and of integrals.
4. Solve ordinary differential equations with constant/ variable coefficients by using Laplace transform method.
5. Comprehend the properties of Fourier transforms and solve problems related to finite Fourier transforms.

Name	Sign	group
1. U. MUNI KRISHNA	U. Muni Krishna	III BSc (MPC)
2. K. Sireesha	K. Sireesha	III BSC (MPC)
3. S. Ganga Bhavani	S. Ganga Bhavani	III BSc (MPC)
4. J. Pavani	J. Pavani	III BSc (MPC)
5. m. Kalyani	m. Kalyani	III BSc (MPC)
6. B. Manasa	B. Manasa	III B.Sc (MPC)
7. T. Pavan	T. Pavan	III BSc (MPC)
8. S. Poghauendra	S. Poghauendra	III BSc (MPC)

B. S. S.
PRINCIPAL
PRR & VS GOVT. COLLEGE
VIDAVALUR - 524318.
SPSR NELLORE DT.

PRR & VS GOVT.COLLEGE

VIDAVALUR, SPSR NELLORE DT.



DEPARTMENT OF PHYSICS

PROGRAM & COURSE OUTCOMES

(2022-23)

B.Sc. PHYSICS SYLLABUS UNDER CBCS For Mathematics Combinations

I Year B.Sc.-Physics: I Semester

Course I: MECHANICS, WAVES AND OSCILLATIONS

Course outcomes:

On successful completion of this course, the students will be able to:

Understand Newton's laws of motion and motion of variable mass system and its application to rocket motion and the concepts of impact parameter, scattering cross section.

Apply the rotational kinematic relations, the principle and working of gyroscope and its applications and the precessional motion of a freely rotating symmetric top.

Comprehend the general characteristics of central forces and the application of Kepler's laws to describe the motion of planets and satellite in circular orbit through the study of law of Gravitation.

Understand postulates of Special theory of relativity and its consequences such as length contraction, time dilation, relativistic mass and mass-energy equivalence.

Examine phenomena of simple harmonic motion and the distinction between undamped, damped and forced oscillations and the concepts of resonance and quality factor with reference to damped harmonic oscillator.

Appreciate the formulation of the problem of coupled oscillations and solve them to obtain normal modes of oscillation and their frequencies in simple mechanical systems.

Figure out the formation of harmonics and overtones in a stretched string and acquire the knowledge on Ultrasonic waves, their production and detection and their applications in different fields

Course outcomes (Practicals):

On successful completion of this practical course, the student will be able to;

Perform experiments on Properties of matter such as the determination of moduli of elasticity viz., Young's modulus, Rigidity modulus of certain materials; Surface tension of water, Coefficient of viscosity of a liquid, Moment of inertia of some regular bodies by different methods and compare the experimental values with the standard values. Know how to

determine the acceleration due to gravity at a place using Compound → pendulum and Simple pendulum.

Notice the difference between flat resonance and sharp resonance in case of volume → resonator and sonometer experiments respectively. Verify the laws of transverse vibrations in a stretched string using sonometer and → comment on the relation between frequency, length and tension of a stretched string under vibration. Demonstrate the formation of stationary waves on a string in Melde's string → experiment. Observe the motion of coupled oscillators and normal modes.

B.Sc. PHYSICS SYLLABUS UNDER CBCS For Mathematics Combinations [2020-21 Batch onwards]
Year B.Sc.-Physics: II Semester Course-II: WAVE OPTICS

Course outcomes:

On successful completion of this course, the student will be able to:

Understand the phenomenon of interference of light and its formation in (i) Lloyd's single mirror due to division of wave front and (ii) Thin films, Newton's rings and Michelson interferometer due to division of amplitude.

Distinguish between Fresnel's diffraction and Fraunhofer diffraction and observe the diffraction patterns in the case of single slit and the diffraction grating. Describe the construction and working of zone plate and make the comparison of zone plate with convex lens.

Explain the various methods of production of plane, circularly and polarized light and their detection and the concept of optical activity

Comprehend the basic principle of laser, the working of He-Ne laser and Ruby lasers and their applications in different fields. Explain about the different aberrations in lenses and discuss the methods of minimizing them.

Understand the basic principles of fibre optic communication and explore the field of Holography and Nonlinear optics and their applications..

Course outcomes (Practicals):

On successful completion of this practical course the student will be able to,

1. Gain hands-on experience of using various optical instruments like spectrometer, polarimeter and making finer measurements of wavelength of light using Newton Rings experiment, diffraction grating etc.
2. Understand the principle of working of polarimeter and the measurement of specific rotatory power of sugar solution
3. Know the techniques involved in measuring the resolving power of telescope and dispersive power of the material of the prism.
4. Be familiar with the determination of refractive index of liquid by Boy's method and the determination of thickness of a thin wire by wedge method.

B.Sc. PHYSICS SYLLABUS UNDER CBCS For Mathematics Combinations

II Year B.Sc.-Physics: III Semester

Course-III: HEAT AND THERMODYNAMIC

Course outcomes:

On successful completion of this course, the student will be able to:

Understand the basic aspects of kinetic theory of gases, Maxwell-Boltzman's distribution law, equi partition of energies, mean free path of molecular collisions and the transport phenomenon in ideal gases

Gain knowledge on the basic concepts of thermodynamics, the first and the second law of thermodynamics, the basic principles of refrigeration, the concept of entropy, the thermodynamic potentials and their physical interpretations. Understand the working of Carnot's ideal heat engine, Carnot cycle and its efficiency

Develop critical understanding of concept of Thermodynamic potentials, the formulation of Maxwell's equations and its applications.

Differentiate between principles and methods to produce low temperature and liquefy air and also understand the practical applications of substances at low temperatures.

Examine the nature of black body radiations and the basic theories.

Practical Course-III: Heat and Thermodynamics

On successful completion of this practical course, the student will be able to;

Perform some basic experiments in thermal Physics, viz., determinations of Stefan's constant, coefficient of thermal conductivity, variation of thermo-emf of a thermocouple with temperature difference at its two junctions, calibration of a thermocouple and Specific heat of a liquid.

1. B. Manasa
2. J. Pavani
3. T. Pavani
4. U. Muni Krishna
5. S. Raghavendra.
6. K. Sireesha
7. S. Ganga Bhavani

B.Sc. PHYSICS SYLLABUS UNDER CBCS For Mathematics Combinations

II Year B.Sc.-Physics: IV Semester

Course-IV: ELECTRICITY, MAGNETISM AND ELECTRONICS

Course outcomes:

On successful completion of this course, the students will be able to:

Understand the Gauss law and its application to obtain electric field in different cases and formulate the relationship between electric displacement vector, electric polarization, Susceptibility, Permittivity and Dielectric constant. Distinguish between the magnetic effect of electric current and electromagnetic induction and apply the related laws in appropriate circumstances.

Understand Biot and Savart's law and Ampere's circuital law to describe and explain the generation of magnetic fields by electrical currents.

Develop an understanding on the unification of electric and magnetic fields and Maxwell's equations governing electromagnetic waves.

Phenomenon of resonance in LCR AC-circuits, sharpness of resonance, Q- factor, Power factor and the comparative study of series and parallel resonant circuits.

Describe the operation of p-n junction diodes, zener diodes, light emitting diodes and transistors Understand the operation of basic logic gates and universal gates and their truth tables.

Practical Course IV:

Electricity, Magnetism and Electronics

Course outcomes (Practicals):

On successful completion of this practical course the student will be able to;

Measure the current sensitivity and figure of merit of a moving coil galvanometer. Observe the resonance condition in LCR series and parallel circuit

Learn how a sonometer can be used to determine the frequency of AC-supply.

Observe the variation of magnetic field along the axis of a circular coil carrying current using Stewart and Gee's apparatus.

Understand the operation of PN junction diode, Zener diode and a transistor and their $V-I$ characteristics.

Construct the basic logic gates, half adder and full adder and verify their truth tables. — Further, the student will understand how NAND and NOR gates can be used as universal building blocks.

1. B. Manasa
2. J. Pavani
3. T. Pavan
4. U. Muni Krishna
5. B. Rajavendra
6. K. Sireesta
7. S. Ganga Bhavani

B.Sc. PHYSICS SYLLABUS UNDER CBCS For Mathematics Combinations

II Year B.Sc.-Physics: IV Semester

Course V: MODERN PHYSICS

Course outcomes:

On successful completion of this course, the students will be able to:

Develop an understanding on the concepts of Atomic and Modern Physics, basic and elementary quantum mechanics and nuclear physics.

Develop critical understanding of concept of Matter waves and Uncertainty principle. Get familiarized with the principles of quantum mechanics and the formulation of Schrodinger wave equation and its applications.

Examine the basic properties of nuclei, characteristics of Nuclear forces, salient features of Nuclear models and different nuclear radiation detectors.

Classify Elementary particles based on their mass, charge, spin, half life and interaction. Get familiarized with the nano materials, their unique properties and applications. Increase the awareness and appreciation of superconductors and their practical application.

Practical Course V:

Modern Physics:

On successful completion of this practical course, the student will be able to;

Measure charge of an electron and e/m value of an electron by Thomson method. \rightarrow

Understand how the Planck's constant can be determined using Photocell and LEDs. \rightarrow

Study the absorption of α -rays and β -rays, Range of β -particles and the characteristics \rightarrow of GM counter

Determine the Energy gap of a semiconductor using thermistor and junction diode.

1. B. Mahasa
2. J. Pawani
3. T. Pavan
4. U. Muni Krishna
5. S. Raghavendra
6. K. Sireesta
7. S. Ganga Bhanani

BSc Maths, Physics and Computer Science (MPCs)

Program Outcomes (POs)

- **PO1. Critical Thinking:** Apply critical thinking and enhance learning in the three major subjects of their choice with scientific reasoning and analytical skills.
- **PO2. Problem solving:** Think logically and organize task into a structured form for problem solving by applying the knowledge of basic science.
- **PO3. Effective communication:** To develop the ability of effective communication of scientific information in written and oral format.
- **PO4. Individual and team work:** Function effectively as an individual and as a member or leader in diverse teams and in multi-disciplinary settings.
- **PO5. Ethics:** Apply ethical, moral and social values in personal and professional life leading to holistic development of the individual.
- **PO6. Environment and sustainability:** Develop interdisciplinary approach to provide better solution and innovative ideas for sustainable development and conservation of natural resources.
- **PO7. Self-directed and lifelong learning:** Recognize the need for and have the ability to engage in independent, lifelong learning and adapt to technological changes to be globally competent.

Program Specific Outcomes (PSOs)

- **PSO1.** Gain knowledge and understanding of definitions, concepts, theorems in Algebra, Analysis, Differential Equations and Linear Algebra.
- **PSO2.** Use Mathematical software leading to professional development.
- **PSO3.** Acquire logical and analytical skills to apply the concepts to model and solve real life problems in related areas.
- **PSO4.** Attain sound knowledge in the areas of Mechanics, Thermal Physics, Optics, Electromagnetism, Quantum Physics, Solid state Physics for pursuing higher education and research.
- **PSO5.** Demonstrate basic knowledge of Physics in developing logical tools and models to draw valid solutions.

- **PSO6.** Analyze and solve problems using reasoning skills based on concepts of Physics.
- **PSO7.** Design and develop computer programs/computer-based systems in the areas related to algorithms, networking, web design, cloud computing, IoT and data analytics of varying complexity.
- **PSO8.** Engage in professional development in the fields of Information Technology and Computer Science.
- **PSO9.** Know about computing principles and business practices employed as software solutions in industries.

BSc Maths, Physics and Chemistry (MPC)

Program Outcomes (POs)

- **PO1. Critical Thinking:** Apply critical thinking and enhance learning in the three major subjects of their choice with scientific reasoning and analytical skills.
- **PO2. Problem solving:** Think logically and organize task into a structured form for problem solving by applying the knowledge of basic science.
- **PO3. Effective communication:** To develop the ability of effective communication of scientific information in written and oral format.
- **PO4. Individual and team work:** Function effectively as an individual and as a member or leader in diverse teams and in multi-disciplinary settings.
- **PO5. Ethics:** Apply ethical, moral and social values in personal and professional life leading to holistic development of the individual.
- **PO6. Environment and sustainability:** Develop interdisciplinary approach to provide better solution and innovative ideas for sustainable development and conservation of natural resources.
- **PO7. Self-directed and lifelong learning:** Recognize the need for and have the ability to engage in independent, lifelong learning and adapt to technological changes to be globally competent.

Program Specific Outcomes (PSOs)

- **PSO1.** Gain knowledge and understanding of definitions, concepts, theorems in Algebra, Analysis, Differential Equations and Linear Algebra.
- **PSO2.** Use Mathematical software leading to professional development.
- **PSO3.** Acquire logical and analytical skills to apply the concepts to model and solve real life problems in related areas.
- **PSO4.** Attain sound knowledge in the areas of Mechanics, Thermal Physics, Optics, Electromagnetism, Quantum Physics, Solid state Physics for pursuing higher education and research.
- **PSO5.** Demonstrate basic knowledge of Physics in developing logical tools and models to draw valid solutions.
- **PSO6.** Analyze and solve problems using reasoning skills based on concepts of Physics.
- **PSO7.** Acquire methodical and logical understanding of the fundamental concepts in Physical, Organic, Inorganic, Analytical and all other integrated Chemistry subjects.
- **PSO8.** Achieve the ability to synthesize, separate, estimate and characterize compounds using experimental and instrumentation techniques.
- **PSO9.** Develop critical thinking and problem solving skills through solving by adopting research based pedagogical tools.

1. C.H. Hanitha.
2. M. Hemalatha
3. C.H. Devakumar.
4. Y. An kitha
5. T. Kularajidham
6. G. Simhadri^a
7. S. Sireesha
8. K. Jasveer
9. P. Vamsikaishna

Course 6B: LOW TEMPERATURE PHYSICS & REFRIGERATION

(Skill Enhancement Course (Elective), Credits: 05)

- I. Learning Outcomes:** Students after successful completion of the course will be able to
1. Identify various methods and techniques used to produce low temperatures in the Laboratory.
 2. Acquire a critical knowledge on refrigeration and air conditioning.
 3. Demonstrate skills of Refrigerators through hands on experience and learn about refrigeration components and their accessories.
 4. Understand the classification, properties of refrigerants and their effects on environment.
 5. Comprehend the applications of Low Temperature Physics and refrigeration.
- II. Learning Outcomes:** On completion of practical course, student shall be able to
1. List out, identify and handle equipment used in refrigeration and low temperature lab.
 2. Learn the procedures of preparation of Freezing Mixtures.
 3. Demonstrate skills on developing various Freezing mixtures and materials and their applications in agriculture, medicine and day to day life.
 4. Acquire skills in observing and measuring various methodologies of very low temperatures
 5. Perform some techniques related to Refrigeration and Freezing in daily life.

Solar Energy and Applications

[Skill Enhancement Course (Elective), Credits: 05]

- I. Learning Outcomes:** After successful completion of the course, the student will be able to:
1. Understand Sun structure, forms of energy coming from the Sun and its measurement.
 2. Acquire a critical knowledge on the working of thermal and photovoltaic collectors.
 3. Demonstrate skills related to callus culture through hands on experience
 4. Understand testing procedures and fault analysis of thermal collectors and PV modules.
 5. Comprehend applications of thermal collectors and PV modules.

Course 6B: Solar Energy and Applications – Practical (lab) work (30 hrs, Max Marks:50)

- II. Learning Outcomes :** On successful completion of this practical course, students shall be able to:
1. List out and identify various components of solar thermal collectors and systems, solar photovoltaic modules and systems.
 2. Learn the procedures for measurement of direct, global and diffuse solar radiation, I -V characteristics and efficiency analysis of solar cells and modules.
 3. Demonstrate skills acquired in evaluating the performance of solar cell / module in connecting them appropriately to get required power output.
 4. Acquire skills in identification and elimination of the damaged panels without affecting the output power in a module / array.
 5. Perform procedures and techniques related to general maintenance of solar thermal and photovoltaic modules.

PRR & VS GOVERNMENT DEGREE COLLEGE

VIDAVALUR, SPSR NELLORE – Dist., A.P.



DEPARTMENT OF POLITICAL SCIENCE

COURSE OUTCOMES

YEAR 2022-2023



PRR&VS GOVERNMENT COLLEGE: VIDAVALUR
VIDAVALUR
POLITICAL SCIENCE DEPARTMENT - PROFILE

Political Science



Political Science Department was established in the year 1965. The strength of the Department has always been the selfless dedication and hard work of the faculty members, who strive each year to improve the pass percentage of the students. As the subject deals with current topics, such as General Elections, Party system in India, Terrorism, India's relations with other countries, the students are given a chance to have a firsthand experience on national politics and International affairs through Internet and Power Point Presentation. The department has one sanctioned post with a weekly work load of 22 hours.

POLITICAL SCIENCE COMBINATION GROUPS

1. H. E. P (History, Economics, Political Science) T.M (upto2021)

E.M (From 2022 onwards)

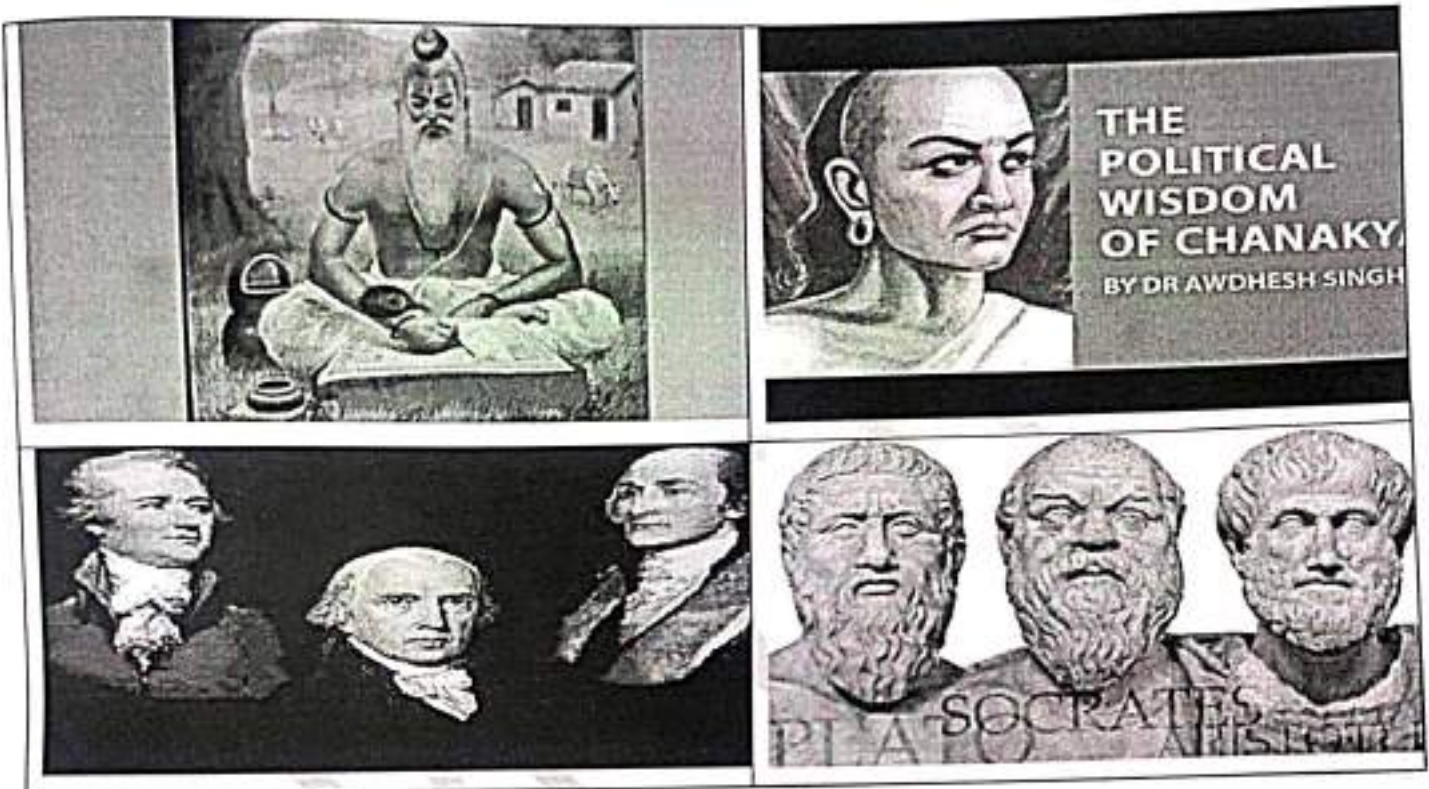
Structure of BA Political Science Core syllabus under CBCS

Programme: FOUR - YEAR B.A

(with History, Economics and political Science Disciplines)

Sl.no	Sem	Name of Course(Each Course consists 5Units with each Unit having 12hours of class-work)	Sem	Hours/Week	Credits	Marks		
						Int	Univ	Total
1	1	Introduction to political science	I	5	4	25	75	100
2	2	Basic organs of the Government	II	5	4	25	75	100
3	3	Indian Government and Politics	III	5	4	25	75	100

4	4	Indian Process	Political	IV	5	4	25	75	100
5	5	Western Thought	Political	IV	5	4	25	75	100
Total						20	125	375	500



Vision Mission and Goals

Vision

The Department of Political Science endeavors to generate new knowledge & produce students who are trained in Political Science.

Mission

The Department of Political Science strives to pursue academic excellence in teaching, research and extension.

Strength

One of the oldest departments in Honours in this College and many past students are now working in different schools and colleges as teachers, professors and even as a Principal of a College.


 PRINCIPAL 9/1/24
 PRR. & VS Govt. Degree College
 VIDAVALUR- 524 318.
 Sri Potti Sriramulu Nellore Dt.

Political P. Priyanka

Efficient, Sincere and hard working faculty with proper teaching- learning infrastructural facilities such as departmental library and central library. 100% syllabus will cover every year.

Weakness

Minimum interaction with general course students, because of huge number.

Future Plans

The main objective of the department is to produce maximum number of good students and encourage them for higher education. Faculty members also strongly desire for building-in-depth knowledge of the subject in the mind set of the students so that they can establish themselves in future at different All-India level Competitive Examination. The primary aim of the department is to develop the basic concept of "Morality" among students so that they would become a good and responsible citizen in future.

Library:

The collage Library provides the general need of the students. However, the Department also has a reference library.

- a) Internet facilities for staff and students: YES
- b) Class rooms with ICT facility: YES
- c) Laboratories: NA

Faculty profile with name, Qualification, designation, area of specialization, experience and research under guidance:

Name	Qualification	Designation	Area of specialization	No .of years of Experience
P.Priyanka	M.A	Lecturer	Political Thought and Theory	One year

Student Teacher Ratio (program-wise):: **General: 45:1**

Qualification of teaching faculty with DSc/D. Litt/Ph. D./MPhil/ PG: **PG-1**

Number of faculty with ongoing projects from a) national b) international funding agencies and grants received: **No ongoing projects at present.**

Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc., total grants received: **Nil.**

Research Centre Facility recognized by the University. No.

**COURSE & PROGRAM OUTCOMES
OF
POLITICAL SCIENCE HONOURS (B.A.)
UNDER CBCS**

**(MINIMUM 30 CLASSES FOR THEORY & 13 CONTACT HOURS FOR TUTORIAL PER
MODULE)**

CONTACT HOURS: 5 HRS. A WEEK TUTORIAL: 9 HRS. ANNUALLY

Course-I: Introduction to political science

SEMESTER-I

1. A. Understanding Political Theory: Concepts. (Module I & II)
- B. Understanding Political Theory: Approaches And Debates. (Module I & II)

- Co 1- Analyzing What Is Politics And Explaining The Approaches To The Study Of Political Science- Normative, Behavioral, Post Behavioral, Feminist.
- Co 2- Assessing the Theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories.
- Co 3- Explaining the Concept of State Sovereignty: Monistic and Pluralistic Theories.
Analyzing the Changing Concept of Sovereignty In The Context Of Globalisation.
- Co 4- Classification of David Held's Democratic Theories.
- Co 5- Understanding Basic Concepts of Liberty, Equality, Rights, Law And Justice.
- Co 6- Assessing Empirical Political Theory: System's Analysis, Structural Functionalism.
- Co 7- Explaining Dialectical Materialism and Historical Materialism With Special Reference To Relationship Between Base And Superstructure.
- Co 8 - Analyzing the Theory of Class and Class Struggle.
- Co 9 - Describing the Marxist Approach to Politics.
- Co 10 - Analyzing Marx's Concept of Freedom and Democracy: Nature, Features And Critique.
- Co 11- Discussing Marx's Theory of State with Special Reference to Relative Autonomy of the State.
- Co 12- Explaining Marxian Theory of Revolution.
- Co 13- Evaluating the Major Debates In Marxism: Lenin- Rosa Luxemburg Debate On Political Party.

Course-II: Basic Organs of the Government

SEMESTER-II

Exhibits

Name of the Student

1. S. Hareesh.
2. T. Karthik
3. Y. Vishnu Praya.
4. P. R. Vishnu Vardhan
5. D. Vivekananda.
6. G. Keerthi Kumar.
7. S. Raheem
8. D. Vinod Kumar
9. A. Simbabu.
10. K. Gowri Sankar
11. K. Swapna
13. K. Ashwanth
14. P. Nareen.
15. D. Preethi
16. G. Sai Kiran.
17. J. Vaibhava Kumar
18. G. Sumanth
19. D. Akhila
20. A. Nalendra
21. D. Vishnuvardan
22. E. Sarath Babu.

B. Harish

T. Karthik

Y. Vishnu Praya

P. Vishnu Vardhan

-

G. Keerthi Kumar

S. Raheem

-

A. Simbabu

K. Gowri Sankar

K. Swapna

K. Ashwanth

P. Nareen

-

G. Sai Kiran

J. Vaibhava

2. A. Constitutional government in India. (Module I II)

B. Politics in India – structure and process. (Module i & ii)

- Co 1- introducing the Indian constitution with a focus on the role of the Constituent assembly and examining the essence of the preamble.
- Co 2- examining the fundamental rights and duties of Indian citizens with a study of the significance and Status of directive principles.
- Co 3- Assessing the nature of Indian federalism with focus on union-state Relations.
- Co 4- Critically analyzing the important institutions of the Indian union: the Executive: president; prime Minister, council of ministers; governor, chief minister and council of Ministers; the legislature: Rajya sabha, lok sabha, speaker, committee system, state legislature, the Judiciary: supreme Court and the high courts: composition and functions- judicial activism
- Co 5- looking at the constitutional amendment procedure with focus on the main Recommendations of the Constitutional review commission (venkatachalliah commission)
- Co 6- critically evaluating the Indian party system – its development and looking At the ideology of Dominant national parties
- Co 7- evaluating the role of various forces on Indian politics: religion; language; Caste; tribe; regionalism; Business; working class and peasants.
- Co 8- evaluating the electoral process in India with focus on the election Commission: composition, Functions and role
- Co 9- investigating the new social movements since t h e 1970s:
2. A. Constitutional government in India. (module I & II)
- B. Politics in india – structure and process. (Module I & II)
- Co 1- Introducing the Indian constitution with a focus on the role of the Constituent assembly and Examining the essence of the preamble.
- Co 2- examining the fundamental rights and duties of indian citizens with a study Of the significance and Status of directive principles.
- Co 3- assessing the nature of Indian federalism with focus on union-state Relations.
- Co 4- critically analyzing the important institutions of the indian union: the Executive: president; prime Minister, council of ministers; governor, chief minister and council of Ministers; the legislature: Rajya sabha, lok sabha, speaker, committee system, state

Political P. Priyanka

legislature, the Judiciary: Supreme Court and the high court's: composition and functions- judicial activism

- Co 5- looking at the constitutional amendment procedure with focus on the main Recommendations of the Constitutional review commission (venkatachalliah commission)
- Co 6- critically evaluating the indian party system – its development and looking At the ideology of Dominant national parties
- Co 7- evaluating the role of various forces on indian politics: religion; language; Caste; tribe; regionalism; Business; working class and peasants
- Co 8- evaluating the electoral process in india with focus on the election Commission: composition, Functions and role
- Co 9- investigating the new social movements since t h e 1970s: environmental Movements, Women's movement and human rights movement Semester environmental movements, women's movement and human rights movement

Semester -III

3. a. Indian political thought. (module i & ii)

- co 1- Tracing The evolution of indian political thought from ancient India to modern India.
- co 2- analysing the nationalist thought of raja rammohun roy.
- co 3- assessing the nationalist thought of bankim, vivekananda and tagore.
- co 4- discussing the nationalism of gandhi, m. n. roy, narendra deva and syed ahmed khan.
- co 5- explaining the formation of the congress in 1885.
- co 6- tracing the bengal partition and the swadeshi movement.
- co 7- analysing the gandhian movements such as the khilafat, non cooperation, civil disobedience movements.
- co 8- assessing the alternatives to the indian national congress- the forward bloc, congress socialist party, communist party of india
- co 9- describing the movements against caste and untouchability, ambedkar's views on social justic and the depressed classes.
- co 10- analysing the working class and peasant movements under colonial rule
- co 11- discussing the roots of communalism- Savarkar and Hindu nationalism and Jinnah and the two nation theory
- co 12- estimating the contribution of the august 1942 movement, the in a and the naval

uprising

b. comparative govt. & politics. (module i & ii)

- co 1- tracing the evolution of comparative politics as a discipline and drawing a distinction between comparative politics and comparative government
- co 2- investigating the nature and scope of comparative politics.
- co 3- analysing the approaches the approaches and models of comparison: systems analysis; structural

FUNCTIONALISM; AND INSTITUTIONAL APPROACH.

- Co 4- critically analyzing the features of a liberal democratic and socialist Political system with focus on Uk, usa and the people's republic of china
- Co 5- discussing the features of a federal system with special reference to USA and Russia.
- Co 6- conducting an intensive comparative study of the executive (Uk, USA, France and Russia); legislature (uk, usa and the pre); the judiciary (uk, usa and pre).
- co 7- critically looking at the rights of the citizens of uk, usa and pre from a comparative Perspective.

c. perspectives on international relations. (Module I & II)

- co 1- explaining scope and subject matter of international relations as an autonomous academic discipline.
- co 2- approaches and methods to study the discipline through political realism, pluralism and worlds system's model.
- co 3- Examining the issues of underdevelopment, terrorism, regionalism and integration that characterizes the post second world war order.
- co 4- Studying the role of diplomacy, propaganda and military capabilities in the making of foreign policy.
- co 5- Explaining certain basic concepts like globalisation in contemporary world order.
- co 6- Describing the cold war phases and understanding the post-cold war era.
- co 7- Discussing the developments in european ethno-nationalism since 1990's. tracing the growth of european union
- co 8- Examining Indian foreign policy: basic principles, evolution and bilateral relations.
- co 9- Evaluating the working of un and its organs; peace keeping function and human rights.
- co 10- Analysing the foreign policy of USA and china.
- co 11- Studying the developments in third world countries in post-world war ii era like nam: relevance, ASEAN, SAFTA AND SAARC, OPEC, OAU, West Asia-Palestine

Name of the Student

Signature of the Student

- | | | |
|--------------------------------|---|--------------|
| 1. Anusha | - | ch. Anusha |
| 2. sumalatha | - | G. sumalatha |
| 3. Sreedevi | - | ch. Sreedevi |
| 4. Gowthami | - | G. Gowthami |
| 5. Bhavana | - | V. Bhavana |
| 6. Divya | - | D. Divya |
| 7. Rajeswari | - | K. Rajeswari |
| 8. Devagri | - | Devagri |
| 9. Ramadevi | - | Ramadevi |
| 10. Kavitha | - | Kavitha |
| 11. menjesh menjesh | - | menjesh |

SEMESTER – IV

4. **A. INDIAN POLITICAL THOUGHT. (MODULE I & II)**
- CO 1- Tracing the evolution of Indian political thought from ancient india to modern india.
- CO 2- Analysing the nationalist thought of raja rammohun roy.
- CO 3- Assessing The Nationalist Thought Of Bankim, Vivekananda And Tagore.
- CO 4- Discussing the nationalism of Gandhi, m. N. Roy, Narendra deva and Syed Ahmed khan.
- CO 5- Explaining the formation of the congress in 1885.
- CO 6- Tracing the Bengal partition and the Swadeshi movement.
- CO 7- Analysing the Gandhian movements such as the Khilafat, non cooperation, civil disobedience movements.
- CO 8- Assessing the alternatives to the Indian national congress- the forward bloc, congress socialist Party, communist parti of India.
- CO 9- Describing the movement against caste & untouchability – Ambedkar's, Jyotibha phule & Panditia Ramabai's views on caste, untouchability social justice.
- Co 10- assessing Nehru & Subhas ch. Bose's views on socialism.
- CO 11- Describing Syed Ahmed khan's views on colonialism and nationalism.
- CO 12- Tracing M. N. Roy's views on radical humanism.
- CO 13- Analysing socialist ideas of Narendra deva, j. P. Narayan & Ram Manohar lohia's socialist ideas.
- B. GLOBAL POLITICS. (MODULE I & II)**
- co 1- Analyzing cold war and its evolution.
- co 2- Examining globalization conception and perspective.
- co 3- Examining Europe In Transition, European Union, Brexit (Over View)
- Co 4- Overviews of major institution of global governance world bank, imf, wto etc. & major regional organization like Asean, Opec, Safta, Saarc And Beic, West Asia & Palestine.

SEMESTER – V

5. **A. WESTERN POLITICAL THOUGHT. (MODULE I & II)**

ancient greek Political thought with focus on Aristotle and Plato; roman political thought: its contributions with special emphasis on the emergence of roman law

CO 2- Examining the features of medieval political thought.

CO 3- Evaluating the renaissance; political thought of reformation; and Machiavelli.

CO 4- Critically examining Bodin's contributions to the theory of sovereignty; Hobbes as the founder of the Science of materialist politics; Locke as the founder of liberalism with focus on his views on natural Rights property and consent; and Rousseau's view on freedom and democracy; Bentham's Utilitarianism; and John Stuart Mill's views on liberty and representative government

CO 5- Taking an insight into the following: Hegel's views on civil society and state; utopian and Scientific Socialism: basic characteristics.

CO 6- Examining the varieties of non-Marxist socialism: Fabians, syndicalism, guild Socialism and German Revisionism.

CO 7- Examining development of Frankfurt school, & cultural Marxism

B. POLITICAL SOCIOLOGY. (MODULE I & II)

CO 1- Studying the concepts of power, authority and legitimacy in the context of society.

CO 2- Examining social stratification through the index of class, caste and elite.

CO 3- Evaluating the impact of religion on society.

CO 4- Relating gender and politics

CO 5- Creating awareness among students about nationalism and state building processes in Western Europe And Third World

CO 6- Establishing state -society interrelationship.

CO 7- Classifying the different types of political systems.

CO 8- discussing the approaches to the study of political culture. Evaluating the different agents

of political Socialization and their interrelationships

CO 9- Evaluating the concept and types of political participation.

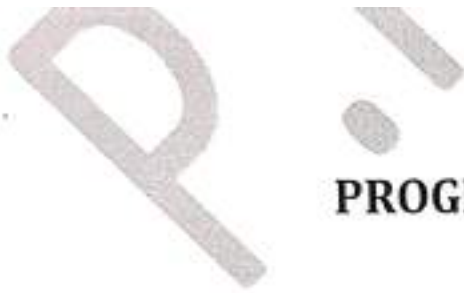
CO 10- discussing the relation between military and politics with reference to conditions and

Name of the Student

1. A Sai Tejo.
2. CH. Vamsi Krishna
3. CH. Naresh.
4. P. Rakesh.
5. P. Chakri
6. J. Jashwa
7. S. Siddartha
8. E. Praveena
9. T. Indraja.
10. Ch. Jagam

Signature

1. Sai Tejo
- Ch. Vamsi Krishna
-
- P. Rakesh
- P. Chakri
- J. Jashwa
- S —
- E. Praveena
- T. Indraja.
- Ch. Jagam



PROGRAM SPECIFIC OUTCOMES

- PS0 1 - Building overall consciousness regarding national political history, international relations and present Indian and Western political thinkers.
- PSO2- Encouraging a comprehensive, comparative understanding of specific world constitutions such as UK, USA, CHINA, RUSSIA, SWITZERLAND AND FRANCE.

PSO3 - Understanding the nature and developments in national and international politics
 analysing the indian Constitutional provisions, major legislations and reforms.

PSO4 - Critical evaluation of social, economic and political variables for a proper understanding of the plurality of Indian society

PSO5 - Use of case study method for analyzing the working of important international and regional organizations like UN, EU, ASEAN ETC

PSO6 Developing knowledge of administrative studies with special reference to Indian administrative Structures and practices.

PSO7 - Examining India's foreign relations with her neighbors and great powers.

SKILL ENHANCEMENT COURSE SEM - III

- I) Develops democratic awareness through legal literacy (module i & ii)
- II) Understanding the legal system (module - i & ii)
- III) Gives awareness about legislative practices & procedures.

DISCIPLINE – SPECIFIC ELECTIVE

8 courses provided. Students have to choose one from group - a & one from group - b in semester - 5 and one from group - a & one from group - b in semester - 6.

- > List of discipline – specific elective course:-
- A) Gender & politics
 - B) Understanding Sant Asia
 - C) Indian foreign policy

Political P. Priyanka

- D) Development process and social movements in contemporary India
- E) Public policy in India
- F) Understanding global politics
- G) Citizenship in Globalizing world
- H) Human right in a comparative perspective

- I) The course curriculum inculcates among students a basic understanding about socio-political phenomenon.

- J) The goal is to train students in the different methods & tools of investigation such as empirical Research, survey RESEARCH ETC.

COURSE OUTCOME OF POLITICAL SCIENCE GENERIC ELECTICE

Ba generic course curriculum consists of political theory, comparative govt. And politics, Indian constitution and politics, international relations. The course builds overall consciousness regarding national and international socio-political phenomena.

Syllabus

SEMESTER I

COURSE-I : INTRODUCTION TO POLITICAL SCIENCE

Learning Outcomes:

- On successful completion of the course the students will be able to;
- Recall the previous knowledge about Political Science and understand the nature and scope, traditional and modern approaches of Political Science.
 - Understand concepts intrinsic to the study of Political Science.
 - Have solid theoretical understanding of Rights and its theories along with the basic aspects of certain political ideologies.
 - Apply the knowledge to observe the field level phenomena

UNIT-I : INTRODUCTION

Definition, Nature, Scope and Importance of Political Science – Relations with allied disciplines (History, Economics, Philosophy and Sociology)

2. Approaches to the study of Political Science:

Traditional Approaches-Philosophical, Historical. Modern Approaches-Behavioral and System Approach.

UNIT-II : STATE

Definition of the State, Elements of the State, Theories of Origin of the State- (Divine Origin, Force, Evolutionary and Social Contract).

2. Concepts of Modern State and Welfare State.

UNIT-III : CONCEPTS OF POLITICAL SCIENCE

1. Law, Liberty, Equality.
2. Power, Authority and Legitimacy.

Political P. Priyanka

UNIT-IV	THEORIES OF RIGHTS
1.	Meaning, Nature and Classification of Rights
2.	Theories of Rights.
UNIT-V :	POLITICAL IDEOLOGIES
1.	Liberalism, Individualism, Anarchism.
2.	Socialism, Marxism and Multiculturalism.

- I. **Understanding Political Theory:** It enriches knowledge on the abstract theme of Political order. With all its new facets of discipline throwing light on Theoretical, Practical Philosophical, Scientific and Ideological connotation in the broad frame work of the study of political science.
- II. **Western Political Thought:** To calculate the political understandings of societal order. Thought process enriches to gain knowledge over legitimization of existing orders. Example Social contract Theories convince how the order of the day was justified.
- III. **Indian Political Thought:** Students could gain knowledge over the political developments of ancient, medieval and modern ages of India. With oriental perspective, with non western view . Special emphasis on State in Indian Society.
- IV. **Constitution and Politics of India:** To estimate the performance of Constitution and its implications in the Indian Political System.
- V. **International Relations (Cluster):** To Upraise the significance of relations among nation states and role of non state actors and understand the Global Politics.

No.of students enrolled

<i>GROUP</i>	<i>ENROLLED</i>	<i>TOTAL</i>
<i>HEP</i>	<i>16</i>	<i>16</i>

Year 2016-2017

<i>GROUP</i>	<i>ENROLLED</i>	<i>TOTAL</i>
<i>Year 2019-2020</i>		

<i>GROUP</i>	<i>ENROLLED</i>	<i>TOTAL</i>
<i>HEP</i>	<i>19</i>	<i>19</i>

Year 2020-2021

<i>GROUP</i>	<i>ENROLLED</i>	<i>TOTAL</i>
<i>HEP</i>	<i>25</i>	<i>25</i>

Year 2021-2022

<i>GROUP</i>	<i>ENROLLED</i>	<i>TOTAL</i>
<i>HEP</i>	<i>16</i>	<i>16</i>

STUDENT STRENGTH PARTICULARS CATEGORYWISE

YEAR-2015-16

CLASS	S.C	S.T	B.C	O.C	MINORITIES	Male	Female	TOTAL
B.A	6	3	5	2	01	17	00	17

YEAR-2016-17

CLASS	S.C	S.T	B.C	O.C	MINORITIES	Male	Female	TOTAL
B.A	8	01	01	11	02	13	10	23

YEAR-2017-18

CLASS	S.C	S.T	B.C	O.C	MINORITIES	Male	Female	TOTAL
B.A	8	00	5	0	0	10	3	13

YEAR-2018-19

CLASS	S.C	S.T	B.C	O.C	MINORITIES	Male	Female	TOTAL
B.A	11	00	2	1	00	10	4	14

YEAR-2019-20

CLASS	S.C	S.T	B.C	O.C	MINORITIES	Male	Female	TOTAL
B.A	11	4	4	0	00	11	8	19

YEAR -2020-21

CLASS	S.C	S.T	B.C	O.C	MINORITIES	Male	Female	TOTAL
B.A	13	3	9	00	00	21	4	25

YEAR -2021-22

CLASS	S.C	S.T	B.C	O.C	MINORITIES	Male	Female	TOTAL
B.A	6	3	4	2	01	6	10	16

B. Su

PRINCIPAL 10/1/24
 PRR & VS GOVT. COLLEGE
 VIDAVALUR - 524318.
 SPSR NELLORE DT.