



**A.S.D.Government Degree College for Women**

**An Autonomous Institution**

**Jagannaickpur, Kakinada, Andhra Pradesh-533002**  
**Affiliated to Adikavi Nannaya University, Rajamahendravaram**



## **INTERNAL QUALITY ASSURANCE CELL**

### **2.3.3 Preparation and adherence of Academic Calender and Teaching Plans by the Institution**



**2019-20**

### **Minutes of Meeting Proceeding of the Principal Academic Calender Teaching Plans**

The Staff Meeting was held on 25-03-19 at 4.00 PM in the Principal's chamber with Principal in chair to discuss and take resolutions on the following agenda

### Agenda:

1. Conduct of End Semester Exams
2. Conduct of Academic Council meeting
3. Submission of BOS Resolutions by The Depts.
4. Circulation of Stock Verification Committees
5. Preparation of College Prospectus
6. Preparation of Calendar for 2019-20
7. Submission of UGC-VII Pay scale Proposal by staff before 30 March 2019
8. Intimation of College last working day & Re-opening
9. Any other with the permission of chair

Discussion: In view of conducting Academic Council Meeting on 27 March 2019 to take the Approval of the members for the Resolutions taken in BOS Meeting by all depts. Principal felt the need to discuss with the staff on the upgradation of syllabus making it skill oriented for the academic year 2019-20.

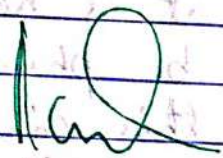


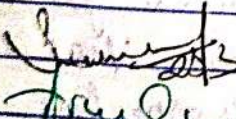
## Resolutions

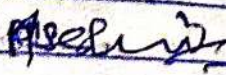
1. It is Resolved and also informed by COE of the College that End Semester Exams (Theory) II, IV & VI are going to commence from 30 March 2019 to 22 April 2019. It is also informed that Time Table of the Exams is displayed on the Notice Board and is also uploaded in the College website. The staff are informed to cooperate & attend invigilation duties on the dates given on slips issued to them.
2. It is Resolved to conduct Academic Council Meeting for 2019-20 on 27 March 2019. as the BOS Resolutions of all the Depts. have to be approved by the Council. for the upgradation of syllabus making it skill oriented.
3. In view of AC Meeting it is informed to all the Incharges of the Depts to submit their BOS Resolutions to the Dr. K. Aruna, Lec in Microbiology, the Member Secretary of AC Meeting.
4. With the completion of the academic Year 2018-19 it is necessary that the stock of articles are to be physically verified and reported to the office. In this connection it is resolved to constitute ~~form~~ <sup>constitute</sup> committee and the same is circulated among the staff for submitting a report of verification to the Principal before 10-4-2019 in the format given.
5. In view of Admissions for the academic Year 2019-20 it is resolved to designe College Prospectus and for this preparation Dr. K. Yamuna, Lec in Economics & Ms. M. Madhavi, Lec in Mathematics are nominated.
6. Ms K. Madhavi, Lec in Telugu and M. N. N. Subramanyam, Lec in Computer Science are assigned to prepare College Calendar for the academic Year 2019-20.

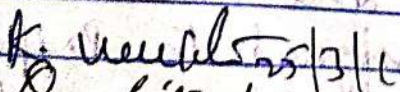


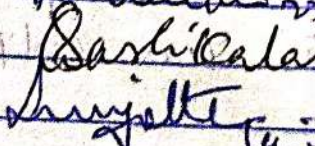
7. The Principal informed all the VGC-Scale drawing lecturers to submit their Individual Proposals of VGC-VII Pay Scale Revision<sup>(2016)</sup> before 30<sup>th</sup> March.
8. It is informed to the staff that the college last working day is on 2 April 2019 and Summer Vacation is from 3 April 2019 to 2 June 2019. College Re-opens on 3 June 2019.
9. It is resolved to obtain the Date of Governing Body (G.B) Meeting from Spl. CCE for the academic Year 2019-20.
10. The It is resolved to return the Books taken to from the Main Library by all faculty members (Regular, Contract, & Guest) before 30 March 2019 as the academic Year is going to end.
11. It is resolved to prepare Academic Calendar and Institutional Plan for the academic Year 2019-2020 by the committee.

  
25.3.2019

  
25/3/19

  
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25/3/19

**PROCEEDINGS OF THE PRINCIPAL, A.S.D.GOV'T DEGREE COLLEGE FOR  
WOMEN [AUTONOMOUS], KAKINADA**

**Present: Smt.M.Suvarchala, M.Sc.,M.Ed.**

**Re.No:Spl/B2/2019**






**Dated: 23-03-2019**

The Principal of A.S.D. Govt. Degree College for Women (Autonomous), Kakinada is pleased to nominate the following members for the preparation of Academic Calendar and Institutional Plan for the academic year 2019-2020

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**ORDER:**

The following members are nominated for the preparation of Academic Calendar and Institutional Plan for the academic year 2019-2020

- |                    |                                  |   |
|--------------------|----------------------------------|---|
| 1.Smt.M.Suvarchala | Principal                        |  |
| 2. Dr.D.Chenna Rao | Vice-Principal/IQAC Coordinator  |  |
| 3. Ms.K.Lavanya    | Academic Coordinator             |  |
| 4. Dr.K.Yamuna     | Asst. Academic Coordinator       |  |
| 5. Ms.G.Sridevi    | Controller of Examinations (COE) |  |

Copy to the Concerned Members

Copy to the Principal's table



  
Principal  
PRINCIPAL  
A.S.D.GOV'T.DEGREE COLLEGE (W)  
AUTONOMOUS  
KAKINADA



# A.S.D.GOVERNMENT DEGREE COLLEGE FOR WOMEN (AUTONOMOUS),KAKINADA

(Affiliated to Adikavi Nannaya University – Rajamahendravaram)

## ACADEMIC CALENDER 2019-20

Sl.No.	Particulars	Date
1	<b>College Re-Opening</b>	<b>03-06-2019</b>
2	Commencement of Class Work for I,II&III Year courses (I,III & V Semester)	03-06-2019
3	Orientation Programme for I Semester	17-06-2019 & 18-06-2019
4	Completion of Syllabus for the 1 <sup>st</sup> Internal Exams	16-07-2019
5	<b>1<sup>st</sup> Internal Examinations</b>	18-07-2019 to 20-07-2019
6	Completion of Syllabus for 2 <sup>nd</sup> Internals	27-08-2019
7	<b>2<sup>nd</sup> Internal Examinations</b>	29-08-2019 to 31-08-2019
8	Last date for submission of attendance particulars of I,III & V Semesters	26-09-2019
9	Last day of Instruction of I,III & V Semesters	26-09-2019
10	<b>I/III/V Semester End Practical Examinations</b>	<b>27-09-2019 to 05-10-2019</b>
11	Dasara Holidays	06-10-2019 to 13-10-2019
12	<b>I/III/V Semester End Examinations</b>	<b>14-10-2019 to 29-10-2019</b>
	<b>Commencement of Class Work for II/IV/VI Semesters</b>	30-10-2019
	Completion of Syllabus for 1 <sup>st</sup> Internal Examinations	26-11-2019
	<b>1<sup>st</sup> Internal Examinations</b>	28-11-2019 to 30-11-2019
13	Christmas Break	24-12-2019 to 26-12-2019
14	Completion of Syllabus for 2 <sup>nd</sup> Internals	06-01-2020
15	<b>2<sup>nd</sup> Internal Examinations</b>	07-01-2020 to 09-01-2020
	Sports /Cultural Activities	10-01-2020
16	Pongal Holidays	11-01-2020 to 16-01-2020
17	Last date for submission of attendance particulars of II,IV & VI Semesters	25-02-2020
18	Last day of Instruction of II,IV & VI Semesters	25-02-2020
19	<b>II/IV/VI Semesters Practical Examinations</b>	<b>02-03-2020 to 14-03-2020</b>
20	<b>II/IV/VI Semesters End Examinations</b>	<b>16-03-2020 to 03-04-2020</b>
21	<b>Summer Vacation</b>	04-04-2020 to 03-06-2020



H. Suvachala  
PRINCIPAL  
A.S.D. GOVT. DEGREE COLLEGE (W)  
AUTONOMOUS  
KAKINADA

**A.S.D.Government Degree College for women Autonomous**  
**Department of English - Annual Academic Plan**  
**Semester –I**  
**2019-2020**

<b>Month</b>	<b>Paper I- General English ENG 101</b>
JUNE 2019	UNIT-I Introduction to Syllabus and Model Question Paper Prose: The Knowledge Society Grammar: Articles & Prepositions
JULY 2019	UNIT –II Poetry: The Road Not Taken Prose: The Language of African Literature Grammar: Prepositions Short Story: The lost Child
August 2019	UNIT- III Poetry: Night of the Scorpion Prose: The Loaded Dog Grammar: Tenses
September 2019	UNIT- IV One Act Play: The Merchant Of Venice Grammar: Comprehension Passages Interrogatives & Question Tags

*Signature*



*H. Suvachala*  
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**Department of English- Annual Academic Plan**  
**Semester –II**  
**2019-2020**

Month	Paper-II General English ENG 201
November 2019	<b>I. UNIT Introduction of Syllabus &amp; Model Paper</b> Poetry: Ode to Autumn Prose: The Scientific point of view Grammar: Active Voice & Passive Voice
December 2019	<b>Unit –II</b> <b>Prose : On shaking Hands</b> <b>Poetry : I am not that woman</b> Short Story: The Boy who broke the bank Grammar: Dialogue Writing
January 2020	<b>Unit –III</b> <b>Short Story: Half A Rupee worth</b> <b>Grammar : Direct &amp; Indirect Speech</b> <b>Guided Comprehension</b>
February 2020	<b>Unit- IV</b> <b>One act Play: The marriage Proposal</b> <b>Grammar : Degrees of Comparison</b>

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*H. Suvachala*  
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**A.S.D.Government Degree College for women Autonomous**  
**Department of English - Annual Academic Plan**  
**Semester –III**  
**2019-2020**

Month	Paper –III General English ENG 301
JUNE 2019	UNIT-I Introduction to Syllabus and Model Question Paper Prose: Shyness My Shield
JULY 2019	UNIT –II Poetry: Once Upon A time Grammar: Transformation of Sentences Prose: The Interpreter of Maladies
August 2018	UNIT- III Prose: Digging Prose: I have A Dream Grammar: Note making & Note Taking
September 2018	UNIT- IV Prose: My beloved Charioteer One Act play: Kanya Sulkam Grammar: Letter Writing Report writing

*Signature*



*H. Suvachala*  
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A.S.D. Government Degree College for women Autonomous, Kakinada  
Department of Hindi - Annual Academic Plan  
2019-2020 -Semester -III

Month	General Hindi -HIN303
JUNE 2018	<b>१. काव्यदीप (Ancient and Modern Poetry)</b> <ul style="list-style-type: none"><li>• कबीरदास - साखी -१-१०</li><li>• सूरदास का बाल वर्णन</li><li>• मातृ भूमि</li><li>• तोड़ती पत्थर</li><li>• गीत फरोश</li></ul>
JULY 2018	<b>२. हिन्दी साहित्य का इतिहास (Histry of Hindi Literature)</b> <ul style="list-style-type: none"><li>• भक्तिकाल</li><li>• ज्ञानाश्रयी शाखा - कबीर</li><li>• प्रेमाश्रयी शाखा - जायसी</li></ul>
August 2018	<b>३. साधारण निबन्ध (General Essays )</b> <ul style="list-style-type: none"><li>• समाचार पत्र,</li><li>• बेकारी की समस्या,</li><li>• कम्प्यूटर,</li><li>• पर्यावरण और प्रदूषण,</li></ul>
September 2018	<b>4. अनुवाद (Translation)</b> <ul style="list-style-type: none"><li>• अनुवाद अभ्यास - अंग्रेजी से हिन्दी (Four or Five lines)</li></ul>
October 2018	<ul style="list-style-type: none"><li>• वाक्यों की शुद्धि</li><li>• शब्द प्रायोग</li></ul>

*Signature*  
Signature of the Dep. Incharge



*M. Sivarajah*  
PRINCIPAL  
A.S.D. GOVT. DEGREE COLLEGE (W)  
AUTONOMOUS  
KAKINADA



**DEPARTMENT OF SANSKRIT**  
**B.Sc,B,COM,B.A**

**ACADEMIC PLAN 2019-2020**

**SEMESTER - I**

**1: POETRY, PROSE, & GRAMMAR.**

Paper code:1610102

Month	Name of the Topic
June 2019	1.अभिज्ञानम्- (Abhijnaanam (Ramayana - Kishkindha Kaanda 6th Canto 1- 27 Slokas). UNIT-V व्याकरणम् (GRAMMAR) Swara Sandhi: 1. सवर्णदीर्घसन्धि (Savarnadeergha) 2. अयवायावसन्धि(Ayavayava) 3. गुणसन्धि (Guna)
July 2019	धातवः(Conjugations) 1. दृशिर् (Drushir) 2. लभ् (Labh) 3. मुद् (Mud) 2. आतिथ्यम् -Aatithyam (Bhaagavatam 9th Skandha 21" Adhyaaya 2-18 Slokas)
August 2019	1. Unnathi from Bharatee Bhushanam by Dr.D.N.Deekhit Page No 66-68. 2. विविक्तपुष्पकराण्डः Vivikta Pushpa Karandaha by Dr. Rani Sadasiva Murthy, Selected Stanzas ) 4. वृद्धिसन्धि(Vrudhi) 5. यणादेशसन्धि (Yanadesa). 2. Halsandhi : 1 श्चुत्वसन्धि (Schutva)2. ष्टुत्वसन्धि (Stutva)3. Anunasika)
September 2019	UNIT-III (PROSE) अपरीक्षितकारकम् (पञ्चतन्त्रम्) मूर्खब्राह्मणकथातथामूर्खपण्डितकथा (पु.सं. 734-743) मु.कृष्णदासअकादमी, वारणासी. UNIT-V व्याकरणम् (GRAMMAR) Swara Sandhi: 1. सवर्णदीर्घसन्धि (Savarnadeergha) 2. अयवायावसन्धि(Ayavayava) 3. गुणसन्धि (Guna) 4. वृद्धिसन्धि(Vrudhi) 5. यणादेशसन्धि (Yanadesa). 2. Halsandhi : 1 श्चुत्वसन्धि (Schutva)2. ष्टुत्वसन्धि (Stutva)3. Anunasika).
	धातवः(Conjugations) 2. 2nd Conjugation: 1. अस् (As) 3rd Conjugation:भाष (Bhaash)

**A.S.D GOVERNMENT DEGREE COLLEGE FOR WOMEN (AUTONOMOUS)**

**DEPARTMENT OF SANSKRIT**

**B.Sc,B,COM,B.A**

**ACADEMIC PLAN 2019-2020**

**SEMESTER - II :POETRY, PROSE,&GRAMMAR**

Paper code:1620102

<b>Month</b>	<b>Name of the Topic</b>
November 2019	<b>UNIT-1 OLD POETRY</b> वसिष्ठाश्रमगमनमधुवंशमहाकाव्येप्रथमसर्गे 35 श्लोकतः 73 श्लोकपर्यन्तम् <b>Raghuvamsa-1 Canto 35-73 Slokas</b>
	<b>UNIT-II</b> 1. गङ्गावतरणम् - भोजरजेनलिखितचम्पूरामायणम्- बालकाण्डा <b>Gangaavataranam</b> <b>Bhoja's Champu Ramayanam-Balakanda</b> 1. अजन्तशब्दाः (Declensions) Nouns Ending in Vowels: नदी (Nadi), तनु (Tanu), वधू (Vadhu), मातृ (Martu),
December 2019	गद्दयभागः (PROSE) <b>UNIT-III</b> 1. पुष्पोद्भवचरितम्-दशकुमारचरितम्पूर्वपीठिकाचतुर्थ अध्यायः <b>Dasakumara</b> <b>Charitam- Poorva Peethika 4th Chapter.</b>
	2. कृषिफलम्-ओगेटिपरीक्षितशर्मविरचितकालायतस्मैनमः -20 अध्यायः पु. सं. (273-277) <b>Kaalaaya Tasmai Namah 20h Chapter Written by Ogeti Parikshit Sarma Page</b> <b>273-277.</b>
January 2020	<b>UNIT-V 1. सन्धयः SANDHISहल्सन्धि :- लत्वसन्धि (Latva), जस्त्वसन्धि (Jastva),</b> <b>विसर्गसन्धि (Visarga) (उत्व, विसर्गलोप, रेफादेश, ऊष्म)</b> 2. समासाः <b>SAMAASAS</b> अव्ययीभाव (Avyayibhavaa), बहुव्रीहि (Bahuvrihi)



	<p><b>UNIT-IV</b></p> <p><b>2. समासाः SAMAASAS</b></p> <p>अव्ययीभाव (Avyayibhavaa), बहुव्रीहि (Bahuvrihi)</p> <p><b>1. अजन्तशब्दाः (Declensions) Nouns Ending in Vowels: फल (Phala), वारि (Vari), मधु (Madhu).</b></p>
February 2020	<p><b>.2.उपदेशामृतम् - श्रीमलयलयतीन्द्रस्यउपदेशामृतम्श्रीसमुद्रालक्ष्मणस्य Selected Verses From Sri Malayalateedrasya Upadesamrutam by Sri Samdrala Lakshmanaiah.( Additional syllabus)</b></p>
	<p><b>.2. धातवः (Conjugations) 1.Conjugation-युध (Yudh) 2. Conjugation-इष् (Ish)</b></p> <p><b>3. Conjugation-लिख (Likh) -कृ (Kru)4.Conjugation-कृञ् (Kreen) 5. Conjugation -कथ् (Kath), रम् (Ram), वन्द (Vand)</b></p>

**A.S.D GOVERNMENT DEGREE COLLEGE FOR WOMEN (AUTONOMOUS)**  
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**ACADEMIC PLAN 2019-2020**

**SEMESTER – III**

**(Drama, Upanishad, Alamkara, Particles & Sabdas.**

Paper code:1630102

Month	Name of the Topic
June 2019	<b>OLD DRAMA - UNIT-1</b> 1. दूतवाक्यम् one act Play by Bhasa. <b>UNIT-II</b> <b>MODERN DRAMA</b> 1. अशनिनिरासम् By Kavisamrat Viswanatha Satyanarayana, Pub.in. 1954.
July 2019	<b>UPANISHAD UNIT-III</b> 1. शिष्यानुशासनम् -शिक्षावल्ली- Sikshavalli of Taittireeyopanishat
August 2019	<b>ALANKARAS UNIT-IV</b> 1.3पमा 2. अनन्वय 3. उत्प्रेक्षा 4. दीपकम् 5. अप्रस्तुतप्रशंसा 6. दृष्टान्त 2. शब्दाः SABDAS: 1. हलन्तशब्दाः :- वाच्, मरुत्, भगवत्, राजन्, विद्वस्, मनस् 2. सर्वनामशब्दाः :- अस्मद्, युष्मद्
September 2019	3. शास्त्रकार विभागः (Additional Syllabus) 1. पाणिनिः 2. कौटिल्यः 3. भारवि 4. भवभूतिः 2. सर्वनामशब्दाः :- अस्मद्, युष्मद् 3. शास्त्रकार विभागः (Additional Syllabus)
	कृत्प्रत्ययाः UNIT-V 1. कृत्प्रत्ययाः 1. कृत्वा, 2. ल्यप् 3. तुमुन् 4. तव्य



*H. Suvachale*



**ASD GOVERNMENT COLLEGE FOR WOMEN (A) KAKINADA**  
**DEPARTMENT OF TELUGU**  
**ACADEMIC PLAN 2019-20**  
**I SEMESTER GENERAL & SPECIAL TELUGU**

<b>MONTH</b>	<b>GENERAL TELUGU PRACHEENA TELUGU KAVITVAM</b>	<b>SPECIAL TELUGU</b>
<b>JUNE</b>	<b>GANGA SANTHANULA KATHA</b>	<b>KIRATHARUNEEYAM</b>
<b>JULY</b>	<b>DROUPADI PARIVEDANAM</b>	<b>GIRIKA BALYAM</b>
<b>AUGUST</b>	<b>KANYAKA, DESHA CHARITRALU</b>	<b>SWAPNAVASAVADATTHAM (NATAKAM)</b>
<b>SEPTEMBER</b>	<b>KATHANIKALU</b>	<b>SWAPNAVASAVADATTHAM (NATAKAM)</b>
<b>OCTOBER</b>	<b>VYASAMU- VYAKARANAM</b>	<b>VYAKARANAMSALU</b>

**ASD GOVERNMENT COLLEGE FOR WOMEN (A) KAKINADA**  
**DEPARTMENT OF TELUGU**  
**ACADEMIC PLAN 2019-20**  
**II SEMESTER GENERAL & SPECIAL TELUGU**

<b>MONTH</b>	<b>GENERAL TELUGU AADHUNIKA KAVITVAM</b>	<b>SPECIAL TELUGU</b>
<b>NOVEMBER</b>	<b>SAYUJYAMU, SUBHADRA PARINAYAM,</b>	<b>VEMANA, NEETI SATAKAM</b>
<b>DECEMBER</b>	<b>PIRADOUSI LEKHA, CHETTU</b>	<b>NEETHI SATAKAM 15 PADYALU,</b>
<b>JANUARY</b>	<b>NAMMUKUNNA NELA, AMMAKU ADIVARAM LEDA (KATHANIKALU)</b>	<b>SHIVARAJA PATTABHISHEKAM</b>
<b>FEBRUARY</b>	<b>BATHUKATA (NOVEL)</b>	<b>KOYILA (KAVITHA)</b>
<b>MARCH</b>	<b>VYAKARANAM- AKSHARA DOSHALU</b>	<b>GOSANGI (DEERGA KAVITHA) ANDHRA PRATHISHTA</b>

**ASD GOVERNMENT COLLEGE FOR WOMEN (A) KAKINADA**  
**DEPARTMENT OF TELUGU**  
**ACADEMIC PLAN 2019-20**  
**III SEMESTER GENERAL & SPECIAL TELUGU**

<b>MONTH</b>	<b>GENERAL TELUGU PRACHEENA TELUGU KAVITVAM</b>	<b>SPECIAL TELUGU PRACHEENA KAVITHA PARICHAYAM</b>
<b>JUNE</b>	<b>VAMANAAVATARAM, SHALIVAHANA VIJAYAM</b>	<b>PRAGNANNAYA YUGAM KAVITRAYA YUGAM</b>
<b>JULY</b>	<b>HARIJANA SATHAKAM, SANKRANTI SAMBARALU</b>	<b>SIVAKAVI YUGAM</b>
<b>AUGUST</b>	<b>TELUGU BHASHA, VYAKTHITWA VIKASAM</b>	<b>SREENATHA YUGAM</b>
<b>SEPTEMBER</b>	<b>ABHIVYAKTHI NAIPUNYALU ALAMKARALU</b>	<b>PADA SAHITYAM</b>
<b>OCTOBER</b>	<b>CHANDASSU- ALAMKARALU</b>	<b>PRABANDHA YUGAM</b>

**ASD GOVERNMENT COLLEGE FOR WOMEN (A) KAKINADA**

**DEPARTMENT OF TELUGU**

**ACADEMIC PLAN 2019-20**

**IV SEMESTER SPECIAL TELUGU-AADHUNIKA TELUGU SAHITYA CHARITRA**

<b>MONTH</b>	<b>NAME OF THE TOPIC</b>
<b>NOVEMBER</b>	<b>NAYAKA RAJULA PALANALO SAHITYAM, YAKSHA GANALU – VACHANA KAVYAALU, SATHAKALU (SUMATHI, VEMANA) VIJAYA VILASAM</b>
<b>DECEMBER</b>	<b>ADHUNIKA KAVITVAM – GURAJADA, RAYAPROLU, KRISHNA SASTRY, SREESREE</b>
<b>JANUARY</b>	<b>TELUGU NAVALA – KANDUKURI, UNNAVA, VISWANADHA, KODAVATIGANTI</b>
<b>FEBRUARY</b>	<b>TELUGU NATAKAM – DHRMAVARM KRISHNAMACHARYULU, VEDAM VENKATA RAYA SASTRI, TIRUPATI VEANKATA KAVULU,</b>
<b>MARCH</b>	<b>KATHANIKA – SRIPADA SUBRAHMANYA SASTRY, CHALAM KANUMRTHI VARALAKSHAMAMMA, RANGANAYAKAMMA</b>



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**DEPARTMENT OF TELUGU**  
**ACADEMIC PLAN 2019-20**  
**V SEMESTER SPECIAL TELUGU**

<b>MONTH</b>	<b>SPECIAL TELUGU PAPER-V TELUGU BHASHA CHARITRA</b>	<b>SPECIAL TELUGU PAPER-VI BALAVYAKARANAM- CHANDASSU</b>
<b>JUNE</b>	<b>MANDALIKALU RAKAALU</b>	<b>SANJNA, SANDHI PARICHEEDAALU</b>
<b>JULY</b>	<b>ANDHRAMU – TELUGU - TENUGU</b>	<b>SABDA, ARTHA ALAMKARALU</b>
<b>AUGUST</b>	<b>BHARATHA DESAM LO BHASHA KUTUMBALU</b>	<b>CHANDASSU, JATHULU, UPAJATHULU</b>
<b>SEPTEMBER</b>	<b>DRAVIDA BHASHALU – DRAVIDA BHASHALLO TELUGU KU KALA STHANAM</b>	<b>DASA VIDHA YATHULU</b>
<b>OCTOBER</b>	<b>ARTHA VIPARINAMAM</b>	<b>SHATHA VIDHA PRASALU</b>

**ASD GOVERNMENT COLLEGE FOR WOMEN (A) KAKINADA  
VI SEMESTER SPECIAL TELUGU CLUSTER PAPERS**

MONTH	JANAPADA SAHITYAM	CLUSTER-1 JOURNA	CLUSTER-II ADHUNIKA TELUGU NIRMANAM	CLUSTER-III ANUVADAM
NOVEMBER	JANAPADA VIJNANA VARGEEKARANA- PRAYOJANALU	COMMUNICATION	ADHUNIKA TELUGU BHASHA	ANUVADAM
DECEMBER	JANAPADA VIJNANA VARGEEKARANA- PRAYOJANALU	JOURNALISM	ADHUNIKA TELUGU BHASHA, KRIYA BHEDAL	ANUVADAM, ANUVADAM- RAKALU
JANUARY	JANAPADA GEYALU- LAKSHANALU	EDITOR- SUB EDITO	TELUGU VAKYA NIRMANAM	ANUVADA SAMASYALU
FEBRUARY	JANAPADA ROOPAKALU	NEWS FEATURES	TELUGU VAKYA NIRMANAM	ADHIKARA BHASHAGA TELUGU
MARCH	JANAPADA SANGEETHAKARULU	TELUGU PATRIKAL CHARITRA	TELUGU BHASHA ADHUNIKARANA	ADHIKARA BHASHAGA TELUGU



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**SEMESTER - I**  
**PAPER – I- Differential Equations**

<b>MONTH</b>	<b>NAME OF THE TOPIC</b>
JUNE 2019	Differential Equations of first order and first degree
JULY 2019	Differential Equations of first order but not first degree
	Equations solvable for p,y,x.Clairaut,s Equation
AUGUST 2019	Higher order linear differential equation-I
	Solution of homogeneous & non homogeneous Equations
SEPTEMBER 2019	Higher order linear differential equation-II
	Solution of non homogeneous equations with constant coefficients
	Higher order linear differential equation-III
	Method of variation of parameters

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**SEMESTER – III**  
**PAPER- III- ABSTRACT ALGEBRA**

<b>MONTH</b>	<b>NAME OF THE TOPIC</b>
JUNE 2019	Introduction to Binary Operation and Group definition
JULY 2019	Sub groups –Complex definition ,theorems
	Product, union, Intersection of two subgroups , co-sets Lagrange’s theorem
AUGUST 2019	Definition of Normal subgroups , intersection of two normal subgroups
	Index 2 is a normal sub group –quotient group criteria for the existence of a quotient group
SEPTEMBER 2019	Definition of homomorphism –properties of homomorphism-isomorphism
	Kernel of a homomorphism-fundamental theorem on homomorphism and permutations
	Definition of permutation ,even and odd permutation Cayley’s theorem



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**SEMESTER - V**  
**PAPER –V – RING THEORY AND VECTOR CALCULUS**

<b>MONTH</b>	<b>NAME OF THE TOPIC</b>
JUNE 2019	Definition of ring , Field and basic properties
JULY 2019	Fundamental theorem ,maximal ideals, and prime ideals
AUGUST 2019	Vector definition ,Gradient, Divergence ,Curl operators
	Problems solving on this operators
SEPTEMBER 2019	Line and surface integrals problems
	Volume integral problems
	Gauss,stokes and Green's theorems & problems

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**SEMESTER - V**  
**PAPER-VI- LINEAR ALGEBRA**

<b>MONTH</b>	<b>NAME OF THE TOPIC</b>
JUNE 2019	Vector space definitions Linear span ,linear independent, dependent of vectors
JULY 2019	Basis of vectors ,basis of extension theorems
	Dimension of a vector space , Dimension of a subspace
AUGUST 2019	Linear transformations ,Properties
	Rank and Nullity of linear transformations
SEPTEMBER 2019	Matrices ,Inverse Matrices ,Rank of Matrices
	Characteristic values and vectors Cayley Hamilton theorem
	Inner product space orthonormal set , Gram-schmidt orthogonalisation process

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**SEMESTER - II Paper II**  
**THREE DIMENTIONAL ANALYTICAL SOLID GEOMETRY**

MONTH	NAME OF THE TOPIC
NOVEMBER 2019	Equation of plane through the given points, bisectors of angles between two planes, orthogonal projection on plane
DECEMBER 2019	Equation of a line angle between a line and a plane
	The shortest distance between two lines, length of the perpendicular from a given point to a given line
JANUARY 2020	Definition and equation of the sphere equation of the sphere through four given points
	Equation of circle sphere through a given circle tangent plane, plane of contact, polar plane, conjugate points & planes
FEBRUARY 2020	Definition of sphere and cone, enveloping cone Reciprocal of a cone

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**SEMESTER - IV**  
**REAL ANALYSIS**

MONTH	NAME OF THE TOPIC
NOVEMBER 2019	Introduction of real numbers Monotone sequence Cauchy's general principle of convergence theorem
DECEMBER 2019	Cauchy's general principle of convergence for series tests
	P-test, Cauchy's root test, D-Alembert's test
JANUARY 2020	Boundedness of a function, Limits of a function
	Infinite limits problems
FEBRUARY 2020	Differentiation and mean value theorems
	Riemann integration

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**SEMESTER – VI**  
**PAPER- VIB. -NUMERICAL ANALYSIS**

<b>MONTH</b>	<b>NAME OF THE TOPIC</b>
NOVEMBER 2019	Errors and their analysis, General error formula
DECEMBER 2019	Bisection , iteration, Newton-Raphson methods
	Generalized Newton Raphson method, Muller's method
JANUARY 2020	Forward , Backward , central tables problems
	Symbolic relations problems
FEBRUARY 2020	Gauss's , Stirling's formulas
MARCH 2020	Error in Lagrange's interpolation formula

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**SEMESTER - VI Paper VIB1**  
**ADVANCED NUMERICAL ANALYSIS**

<b>MONTH</b>	<b>NAME OF THE TOPIC</b>
NOVEMBER 2019	Fitting of a straight line problems
DECEMBER 2019	Derivatives using Newton's Forward , Backward
JANUARY 2020	General quadrature formula , Trapezoidal rule
	Simpson's 1/3 and 3/8 rules
FEBRUARY 2020	Gauss Jordan , elimination , Seidel method
MARCH 2020	Taylor's series , Picard's method , Runge – Kutta methods

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**SEMESTER - VI Paper VIB2**  
**SPECIAL FUNCTINS**

MONTH	NAME OF THE TOPIC
NOVEMBER 2019	Hermite polynomial
DECEMBER 2019	Laguerre polynomials
JANUARY 2020	Legender's Equation
	Recurrence formula for Legender's Equation
FEBRUARY 2020	Bessel's equation
MARCH 2020	Beta & Gamma functions



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DEPARTMENT OF PHYSICS

ACADEMIC PLAN 2019-20

CLASS: I B.SC (MPC, MPCs), PAPER-1, SEMESTER-1

TITLE OF THE PAPER: MECHANICS & PROPERTIES OF MATTER

S.NO	MONTH	NAME OF THE UNIT
1	June 2019	Unit-1 & unit-2 Vector analysis & Mechanics of particles
2	July 2019	Unit-3 Mechanics of rigid bodies and Mechanics of continuous media
3	August 2019	Unit-4 Central forces
4	September 2019	Unit-5 Special theory of relativity

CLASS: I B.SC (MPC, MPCs), PAPER-2, SEMESTER-2

TITLE OF THE PAPER: WAVES & OSCILLATIONS

S.NO	MONTH	NAME OF THE UNIT
1	November 2019	Unit-1 Simple harmonic oscillations
2	December 2019	Unit-2 Damped and forced oscillations
3	January 2020	Unit-3 & Unit-4 Complex vibrations Vibrating strings
4	February 2020	Unit-4 & unit-5 Vibrating bars Ultrasonics



**CLASS: II B.SC (MPC, MPCS), PAPER-3, SEMESTER-3**

**TITLE OF THE PAPER: WAVE OPTICS**

S.NO	MONTH	NAME OF THE UNIT
1	June 2019	Unit-1 & unit-2 Aberrations & Interference
2	July 2019	Unit-2 Interference
3	August 2019	Unit-3 & unit-4 Diffraction & Polarisation
4	September 2019	Unit-5 Laser and Holography Fiber optics

**CLASS: II B.SC (MPC, MPCS), PAPER-4, SEMESTER-4**

**TITLE OF THE PAPER: THERMODYNAMICS & RADIATION PHYSICS**

S.NO	MONTH	NAME OF THE UNIT
1	November 2019	Unit-1 & Unit-2 Kinetic theory of Gases and Thermodynamics
2	December 2019	Unit-2 & unit-3 Thermodynamics Thermodynamic potentials
3	January 2020	Unit-3 & Unit-4 Complex vibrations Vibrating strings
4	February 2020	Unit-4 & unit-5 Vibrating bars Ultrasonics

**CLASS: III B.SC (MPC, MPCS), PAPER-5, SEMESTER-5**

**TITLE OF THE PAPER: ELECTRICITY, MAGNETISM & ELECTRONICS**

S.NO	MONTH	NAME OF THE UNIT
1	June 2019	Unit-1 Electric field intensity and potential Dielectrics
2	July 2019	Unit-2 Electric and Magnetic fields Electromagnetic induction
3	August 2019	Unit-3 Alternating currents and Electromagnetic waves Maxwell's equations
4	September 2019	Unit-4 & Unit-5 Basic Electronics Digital Electronics

**CLASS: II B.SC (MPC, MPCS), PAPER-6, SEMESTER-5**

**TITLE OF THE PAPER: MODERN PHYSICS**

S.NO	MONTH	NAME OF THE UNIT
1	June 2019	Unit-1 & Unit-2 Atomic and Molecular Physics Matter waves & Uncertainty principle
2	July 2019	unit-3 Quantum(wave) mechanics
3	August 2019	Unit-4 General properties of Nuclei Radioactive Decay
4	September 2019	unit-5 Crystal structure Superconductivity



**III B.Sc(MPC,MPCS) SEMESTER -6  
(ELECTIVE & CLUSTER)**

**TITLE OF THE PAPER(Elective): Renewable Energy**

**Cluster-1: Solar thermal and Photo voltaic Aspects**

**Cluster-2: Wind,Hydro and Ocean Energies**

**Cluster-3: Energy storage Devices**

Month	Elective VII(C) Renewable Energy	Cluster Elective VIII-C1	Cluster Elective VIII-C2	Cluster Elective VIII-C3
November 2019	Unit-1 Introduction to Energy Environment al Effects	Unit-1 Basics of Solar radiation Radiative properties and Characteristic materials	Unit-1& Unit-2 Introduction to wind energy Wind energy conversion systems	Unit-1& Unit-2 Energy storage
December 2019	Unit-2 Global energy Scenario Indian Energy Scene	Unit-2 & Unit-3 Flat-Plate collectors(FPC) Solar photo Voltaic cell	Unit-3 Wind energy applications	Unit-3 Magnetic and Electric Energy storage system
January 2020	Unit-3 Solar energy Wind Energy	Unit-4 Solar PV Systems	Unit-4 Small Hydropower Systems	Unit-4 Fuel cell
February 2020	Unit-4 & Unit-5 Ocean Energy Hydrogen Energy Solar Energy	Unit-5 Solar thermal applications	Unit-5 Ocean,thermal,Tidal and Wave energy Systems Tidal Energy	Unit-5 Types of Fuel cells

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**I B.Sc., PAPER – I SEMESTER - I**  
**(INORGANIC & ORGANIC CHEMISTRY)**

<b>Month</b>	<b>Inorganic Chemistry</b>	<b>Organic Chemistry</b>
June 2019	Unit-I P-Block Elements	Unit-III Structural Theory in Organic Chemistry
July 2019	Unit-II P-Block Elements	Unit-IV Acyclic Hydrocarbons & Alicyclic Hydrocarbons
August 2019	Unit-II Organometallic Chemistry	Unit-V Benzene and its Reactivity
September 2019	Unit-II Organometallic Chemistry	Unit-V Benzene and its Reactivity

**I B.Sc., PAPER – II SEMESTER - II**  
**(PHYSICAL & GENERAL CHEMISTRY)**

<b>Month</b>	<b>Organic Chemistry</b>	<b>General Chemistry</b>
November 2019	Unit-I Solid State	Unit-IV Colloids & Surface Chemistry
December 2019	Unit-II Gaseous State	Unit-IV Chemical Bonding
January 2020	Unit-II Liquid State	Unit-V Stereo Chemistry of Carbon Compounds
February 2020	Unit-III Solutions	Unit-V Stereo Chemistry of Carbon Compounds

**II B.Sc., PAPER-III SEMESTER - III  
(INORGANIC & ORGANIC CHEMISTRY)**

<b>Month</b>	<b>Inorganic Chemistry</b>	<b>Organic Chemistry</b>
June 2019	Unit-I Chemistry of D-Block Elements	Unit-III Halogen Compounds
July 2019	Theories of Bonding in metals	Unit-III Hydroxy Compounds
August 2019	Unit-II Metals Carbonyls & Related Compounds	Unit-IV Carbonyl Compounds
September 2019	Unit-II Chemistry of f-block elements	Unit-V Carboxylic Acids & their Derivatives

**II B.Sc., PAPER-IV - SEMESTER - IV  
(SPECTROSCOPY & PHYSICAL CHEMISTRY)**

<b>Month</b>	<b>Spectroscopy</b>	<b>Physical Chemistry</b>
November 2019	Spectrophotometry	Dilute Solutions
December 2019	Molecular Symmetry	Electrochemistry-I
January 2020	Infrared Spectroscopy	Electrochemistry-II
February 2020	Proton Magnetic Resonance Spectroscopy	Phase Rule



**III B.Sc., PAPER – V SEMESTER –V**  
**(INORGANIC, ORGANIC & PHYSICAL CHEMISTRY)**

<b>Month</b>	<b>Inorganic Chemistry</b>	<b>Organic &amp; Physical Chemistry</b>
June 2019	Coordination Chemistry	Nitro Hydro Compounds
July 2019	Coordination Chemistry	Nitrogen Compounds
August 2019	Hard & Soft Acids	Thermodynamics
September 2019	Stability of Metal Complexes	Thermodynamics

**III B.Sc., PAPER – VI SEMESTER –V**  
**(INORGANIC, ORGANIC & PHYSICAL CHEMISTRY)**

<b>Month</b>	<b>Inorganic &amp; Physical Chemistry</b>	<b>Organic Chemistry</b>
June 2019	Reactivity of Metal Complexes	Heterocyclic Compounds
July 2019	Bioinorganic Chemistry	Carbohydrates
August 2019	Chemical Kinetics	Carbohydrates
September 2019	Photo Chemistry	Aminoacids & Proteins

**III B.Sc., SEMESTER -VI  
(ELECTIVE & CLUSTER)**

Month	Elective VIIB Environmental Chemistry	Cluster Elective VIII-A1	Cluster Elective VIII-A2	Cluster Elective VIII-A3
November 2019	Introduction Air Pollution	Introduction of Polymers	Introduction to Sectroscopic methods of analysis	Analysis of the Analgesis, Anti Pyretics & Anti Histamine Drugs
December 2019	Water Pollution	Techniques of Polymerisation	Molecular Spectroscopy	Analysis of Anti Epileptic & Anti Convulsant Drugs
January 2020	Chemical Toxicology	Kinetics of free Radical Polymerisation	UV-Visible , Near IR Spectroscopy	Analysis of Milk & Milk Products
February 2020	Ecosystem & Biodiversity	Polymer Additives and their Applications	Separation Techniques Elemental Analysis	Clinical Analysis of Blood



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**SEMESTER - I (COMPUTER FUNDAMENTALS & PHOTOSHOP )**

Month	Name of the Topic
JUNE	Introduction to Computers, Number Systems
JULY	Input and Output Devices
	Types of Software
AUGUST	Introduction to Adobe Photoshop
	Photoshop program Window
SEPTEMBER	Images
	Working with tool box
OCTOBER	Layers
	Filters

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**SEMESTER - II (PROGRAMMING IN C)**

Month	Name of the Topic
NOVEMBER	Introduction to Algorithms and Flowcharts
DECEMBER	Introduction to Programming language
	Introduction to C
JANUARY	Decision Control and Looping Statements
	Functions in C
FEBRUARY	Arrays in C
	Strings in C
MARCH	Pointers in C
	Structures and Unions
APRIL	Files in C

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**SEMESTER – III (OBJECT ORIENTED PROGRAMMING USING JAVA)**

Month	Name of the Topic
JUNE	Fundamentals Of Object – Oriented Programming
JULY	Overview of Java Language & Operators, Datatypes and Expressions
	Decision Making & Branching & Looping Statements
AUGUST	Classes, Objects & Methods
	Inheritance
	Arrays, Strings and Vectors
SEPTEMBER	Interfaces
	Multithreaded Programming
	Managing Errors and Exceptions
OCTOBER	Applet Programming
	Packages

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**SEMESTER - IV ( DATA STRUCTURES)**

Month	Name of the Topic
NOVEMBER	Concept of Abstract Data Types (ADTs)
DECEMBER	Linear Lists
JANUARY	Arrays
	Stacks
FEBRUARY	Queues
	Trees
MARCH	Graphs
	Sorting
APRIL	Searching

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**ACADEMIC PLAN 2019-2020**  
**SEMESTER - V (Paper V- DATABASE MANAGEMENT SYSTEMS)**

<b>Month</b>	<b>Name of the Topic</b>
JUNE	Overview of Database Management System
JULY	Overview of Database Management System
	Entity-Relationship Model
AUGUST	Entity-Relationship Model
	Relational Model
SEPTEMBER	Structured Query Language
	Relational Database Design, Normalization
OCTOBER	Transaction Management and Concurrency Control

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**SEMESTER – V ( Paper VI- Software Engineering)**

<b>Month</b>	<b>Name of the Topic</b>
JUNE	Introduction to Software
	Process and Project Metrics
JULY	Requirements Analysis
AUGUST	Software Design
SEPTEMBER	User Interface Design and Real Time Systems
	Software Quality And Testing
OCTOBER	Control Structures Testing

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**SEMESTER - IV ( Elective Paper VIIC - WEB TECHNOLOGIES)**

<b>Month</b>	<b>Name of the Topic</b>
NOVEMBER	HTML
DECEMBER	Cascading Style Sheets
JANUARY	Introduction to Java Script
FEBRUARY	Objects In JavaScript
MARCH	DHTML
APRIL	XML



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**SEMESTER - VI (Cluster Paper VIII B1 - DISTRIBUTED SYSTEMS)**

Month	Name of the Topic
NOVEMBER	Introduction to Distributed Systems
DECEMBER	Features of Message Passing System
JANUARY	Communication Protocols
FEBRUARY	Design and Implementation
	Deadlock and Election Algorithm
MARCH	Task Management Approach
APRIL	File Models

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**ACADEMIC PLAN 2019-2020**  
**SEMESTER - VI ( Elective Paper VIII B2 - CLOUD COMPUTING)**

Month	Name of the Topic
NOVEMBER	Cloud Computing Overview
DECEMBER	Broad Network Access
JANUARY	Cloud Scenarios and Benefits
	Security Benefits Regularity issues
FEBRUARY	Cloud architecture
	Software as a Service (SaaS), Platforms as a Service(PaaS)
MARCH	Infrastructure as a service (IaaS)
	Cloud deployment model
	Virtualization and Types
APRIL	Desktop Virtualization and MS implementation

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**ACADEMIC PLAN 2019-2020**  
**SEMESTER - I (COMPUTER FUNDAMENTALS & PHOTOSHOP )**

<b>Month</b>	<b>Name of the Topic</b>
JUNE	Introduction to Computers, Number Systems
JULY	Input and Output Devices
	Types of Software
AUGUST	Introduction to Adobe Photoshop
	Photoshop program Window
SEPTEMBER	Images
	Working with tool box
OCTOBER	Layers
	Filters

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**SEMESTER - II (ENTERPRISE RESOURCE PLANNING)**

<b>Month</b>	<b>Name of the Topic</b>
NOVEMBER	Introduction to ERP
DECEMBER	ERP Implementation
JANUARY	Business Modules
FEBRUARY	QAD – System Software Associates
MARCH	ERP Market
APRIL	ERP Present and Future

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**ACADEMIC PLAN 2019-2020  
SEMESTER – III (OFFICE AUTOMATION TOOLS)**

<b>Month</b>	<b>Name of the Topic</b>
JUNE	Introduction To MS Office
JULY	Introduction to MS Excel
AUGUST	Formatting Options
	Charts
SEPTEMBER	Macros
	MS Access
OCTOBER	Finding, Sorting Displaying Data
	Relational Database

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SEMESTER - IV ( Programming in C)**

<b>Month</b>	<b>Name of the Topic</b>
NOVEMBER	Introduction to Algorithms and Flowcharts
DECEMBER	Introduction to Programming Languages
JANUARY	Decision control and Looping Statements
FEBRUARY	Functions in C
MARCH	Arrays in C
	Strings in C
APRIL	Pointers In C
	Structures and Unions

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DEPARTMENT OF COMPUTER SCIENCE  
B.Com(CA)  
ACADEMIC PLAN 2019-2020  
SEMESTER - V (DATABASE MANAGEMENT SYSTEMS)**

<b>Month</b>	<b>Name of the Topic</b>
JUNE	Overview of Database Management System
JULY	Overview of Database Management System
	File-Based System and Drawbacks
AUGUST	Entity-Relationship Model
	CODD'S Rules
SEPTEMBER	Structured Query Language
	PL/SQL
OCTOBER	Types of Cursors

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**B.Com(CA)**  
**ACADEMIC PLAN 2019-2020**  
**SEMESTER – V ( WEB TECHNOLOGIES)**

Month	Name of the Topic
JUNE	Introduction to HTML
JULY	Cascading style Sheets
AUGUST	Introduction to JavaScript
SEPTEMBER	Objects in JavaScript
OCTOBER	DHTML

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**ACADEMIC PLAN 2019-2020**  
**SEMESTER - VI (E-COMMERCE)**

Month	Name of the Topic
NOVEMBER	Introduction to E-Commerce
DECEMBER	Business Electronic Commerce
JANUARY	Concept of Internet
FEBRUARY	Concept of Extranet
	Business Models
MARCH	Public Policy
APRIL	Infrastructure For EC

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# A.S.D GOVT DEGREE COLLEGE FOR WOMEN (A)

(Re-Accredited by NAAC with 'B')

KAKINADA 533002 EASTGODAVARI, ANDHRA PRADESH

## DEPARTMENT OF BOTANY

### ANNUAL ACADEMIC PLAN 2019-2020

### I B.Sc., I SEMESTER

#### BOTANY PAPER-I : MICROBIAL DIVERSITY, ALGAE AND FUNGI

MONTH	TOPIC
JULY	<b>Microbial World</b> : Origin and Evolution of life, Microbial Diversity <b>Viruses</b> : General Characters , replications, plant diseases caused by viruses, study of TMV, Bhendi Vein clearing and Papaya leaf curl diseases
AUGUST	<b>Bacteria</b> :General Characters, Structure, Reproduction and Economic importance. <b>Algae</b> : General account - thallus organization and reproduction in Algae.Fritsch classification and economic importance.Structure, reproduction and life history of <i>Oedogonium</i> , <i>Ectocarpus</i> and <i>Polysiphonia</i> .
SEPTEMBER	<b>Fungi</b> : Characters, classification Life history of Rhizopus, Penicillium, and Puccinia. Lichens structures, Reproduction, Economic importance
OCTOBER	Revision, Semester end Examinations



I B.Sc., II SEMESTER , BOTANY PAPER-II

DIVERSITY OF ARCHAEGONIATES AND PLANT ANATOMY

MONTH	TOPIC
NOVEMBER	<b>BRYOPHYTES</b> : General characters, Classification Structure, reproduction and Life history of <i>Marchantia</i> , and <i>Funaria</i> . Evolution of Sporophyte in Bryophytes.
DECEMBER	<b>Pteridophytes</b> : General Characters, Classification. Structure and life history of Lycopodium and Marsilea. Heterospory and seed habit, Evolution of steel <b>Gymnosperms</b> : General Characters, Classification, Life history of Pinus and Gnetum –Economic importance
JANUARY	<b>Tissues And Tissue Systems</b> : Meristems , Tissues, Tissue Systems
FEBRUARY	<b>Secondary Growth</b> : Anomalous secondary growth in Achyranthes, Boerhaavia and Dracaena <b>Local Timbers:</b> Teak, Rosewood, Red sanders and Arjun
MARCH	Semester End Examinations



## II B.Sc., III SEMESTER

### BOTANY PAPER-III : PLANT TAXONOMY AND EMBROLOGY

MONTH	TOPIC
JUNE	Introduction To Plant Taxonomy, ICBN
JULY	Classification – Types of classification ,Bentham and Hooker's System, Engler and Prantle's sysem, <b>Systematic Taxonomy I</b> : Annonaceae, Fabaceae, Rutaceae, Cucurbitaceae, and Apiaceae.
AUGUST	<b>Systematic Taxonomy II</b> :Asteraceae, Asclepiadaceae, Lamiaceae, Euphorbiaceae ,Orchidaceae and Poaceae <b>Embryology</b> : Microsporogenesis
SEPTEMBER	<b>Embryology</b> : Megasporogenesis, Endosperm Development and Types, Development of Dicot and Monocot Embryos, Polyembryony
OCTOBER	Revision and Semester end examinations

**II B.Sc., IV SEMESTER**

**BOTANY PAPER-IV : PLANT PHYSIOLOGY AND METABOLISM**

<b>MONTH</b>	<b>TOPIC</b>
NOVEMBER	<b>Water Relations</b> :Diffusion, imbibitions, osmosis, Ascent of sap Transpiration
DECEMBER	<b>Mineral Nutrition and Enzymes</b> : Mineral Nutrition, Nitrogen metabolism enzymes Photosynthesis: Light reactions, C3,
JANUARY	C4, and CAM path ways Translocation of Organic Solutes—
FEBRUARY	Growth and Development- Phytohormones, Physiology of flowering, Scenescence and ageing
MARCH	Semester end examinations.

### III B.Sc., V-SEMESTER , BOTANY PAPER-V

#### CELL BIOLOGY, GENETICS AND PLANT BREEDING

MONTH	TOPIC
JUNE	<b>Cell Biology</b> : Cell, the unit of life Ultra structure and functions of cell wall and cell membranes. Chromosomes
JULY	<b>Genetic material</b> : DNA as the genetic material DNA structure and replication of DNA (semi-conservative) Types of RNA and their structure and functions
AUGUST	<b>Mendelian inheritance</b> Mendel's Laws of inheritance, Chromosome theory of inheritance, Linkage, Crossing Over
SEPTEMBER	<b>Plant Breeding</b> Introduction and Objectives of Plant breeding. Methods of crop improvement <b>Breeding, Crop Improvement and Biotechnology</b> Role of mutations in crop improvement. Role of somaclonal variations in crop improvement. Molecular breeding
OCTOBER	Revision And Semester End Examinations

### III B.Sc., V-SEMESTER

#### PAPER-VI : PLANT ECOLOGY AND PHYTOGEOGRAPHY

MONTH	TOPIC
JUNE	Elements Of Ecology,
JULY	Eco System Ecology, Population and Community Ecology
AUGUST	Phytogeography
SEPTEMBER	Plant Biodiversity And Its Importance Additional Input: Pollution
OCTOBER	Revision And Semester End Examinations

**III B.Sc., VI- SEMESTER**  
**BOTANY PAPER-VII – ELECTIVE B**  
**NURSERY, GARDENING AND FLORICULTURE**

MONTH	TOPIC
NOVEMBER	Nursery Management – Objectives, Planning and seasonal activities Gardening – Landscape and home gardening, computer applications in landscaping -- some famous gardens of India
DECEMBER	Propagation Methods : Sowing , Air layering Propagation of Ornamental Plants
JANUARY	Green House : Mist Chamber Flori Culture : Ornamental Plants, annuals, bulbous and foliage plants, palms, Bonsai
FEBRUARY	Commercial Floriculture – Production and packaging of Cut flowers, Cultivation of Important Cut flowers Management of pests , diseases and harvesting
MARCH	Semester end examinations



III B.SC. VI- Semester

**PAPER-VIII A-1 PLANT DIVERSITY AND HUMAN WELFARE  
BOTANY-CLUSTER ELECTIVE--A**

S.no.	Month	Topics
	November	Plant Diversity and Scope—Values and uses of Biodiversity
	December	Loss of Biodiversity—Management of Plant Bio diversity IUCN, UNEP, ENESCO, WWF, NBPGR Environmental impact assessment, Geographical information system
	January	Contemporary practices in Recourse Management, Solid and liquid waste management
	February	Conversation of Bio diversity Role of plants in relation to human welfare
	March	Semester End Examinations
		<b>PAPER –VIII A2 ETHNO BOTANY AND MEDICINAL BOTANY BOTANY-CLUSTER ELECTIVE- A2</b>
	November	Ethno Botany introduction, Plants used by Tribal populations
	December	Rôle of Ethno Botany in Modern Medicine
	January	Ethno Botany as a tool to protect interest of Ethnic group
	February	Scope and Importance of medicinal plants , indigenous medicinal sciences Conservation of Endangered and endemic medicinal plants
	March	Semester End Examinations

PAPER –VIII A3 PHARMACOGNOSY AND PHYTOCHEMISTRY PAPER VIII—CLUSTER ELECTIVE – CLUSTER –A3	
November	Classification of Drugs – Drug evaluation methods
December	Orgenoleptic and microscopic studies Secondary Metabolites
January	Phytochemistry – Phenols Steroids, Alkaloids and volatile oils
February	Enzymes, Proteins, and amino acids as Drugs

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**ASD GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS), KAKINADA.**  
**DEPARTMENT OF ZOOLOGY & AQUACULTURE TECHNOLOGY**  
**ZOOLOGY ACADEMIC PLAN 2019-20**  
**SEMESTER-I PAPER-I (ANIMAL DIVERSITY – NONCHORDATES)**

MONTH	TOPIC COVERED
<b>June'19</b>	<b>UNIT I : Brief history, Significance of Diversity of Non Chordates</b> Protozoa 1.2.1 General characters 1.2.2 Classification of Protozoa up to classes with examples 1.2.3 Elphidium (type study) Porifera 1.3.1 General characters 1.3.2 Classification of Porifera up to classes with examples, 1.3.3 Sycon – External Characters, Types of cells, 1.3.4 Skelton in Sponges 1.3.5 Canal system in sponges
<b>July'19</b>	<b>UNIT II : Coelenterata &amp; Platyhelminthes</b> 2.1.1 General characters 2.1.2 Classification of Coelenterata up to classes with examples 2.1.3 Obelia - External Characters, Structure of Polyp and Medusa 2.1.4 Polymorphism in coelenterates 2.1.5 Corals and coral reef formation 2.2 Platyhelminthes 2.1.1 General characters 2.1.2 Classification of Platyhelminthes upto classes with examples 2.1.3 Fasciola hepatica - External Characters, Excretory system, Reproductive System, Life History and pathogenicit
<b>August'19</b>	<b>UNIT III: Nemathelminthes &amp; Annelida</b> 3.1.1 General characters 3.1.2 Classification of Nemathelminthes up to classes with examples 3.2 Annelida 3.2.1 General characters 3.2.2 Classification of Annelida up to classes with examples 3.2.3 Hirudinaria granulosa - External Characters, Digestive System, Excretory System and Reproductive System 3.2.4 Coelomoducts 3.2.5 Vermiculture - Scope, significance, earthworm species, processing, Vermicompost, economic importance of vermicompost
<b>September'19</b>	<b>UNIT IV : Arthropoda &amp; Mollusca</b> 4.1.1 General characters 4.1.2 Classification of Arthropoda up to classes with examples 4.1.3 Prawn - External Characters, Appendages, Respiratory system and Circulatory System 4.1.4 Peripatus - Structure and affinities 4.2 Mollusca 4.2.1 General characters 4.2.2 Classification of Mollusca up to classes with examples 4.2.3 Pearl formation in Pelecypoda 4.2.4 Torsion in gastropods
<b>October'19</b>	<b>UNIT V: Echinodermata, Hemichordata &amp; Non-Chordata larval forms</b> 5.1.1 General characters 5.1.2 Classification of Echinodermata up to classes with examples 5.1.3 Water vascular system in star fish 5.2 Hemichordata 5.2.1 General characters 5.2.2 Classification of Hemichordata up to classes with examples 5.2.3 Balanoglossus - Structure and affinities 5.3 Non-Chordata larval forms 5.3.1 Amphiblastula 5.3.2 Ephyra 5.3.3 Trochophore 5.3.4 Nauplius 5.3.5 Glochidium 5.3.6 Bipinnaria 5.3.7 Tornaria

**SEMESTER-II PAPER-II (ANIMAL DIVERSITY – CHORDATES)**

MONTH	TOPIC COVERED
<b>November'19</b>	<b>UNIT I : General characters of Chordata</b> 1.2 Prochordata 1.2.1 Salient features of Cephalochordata 1.2.2 Structure of Branchiostoma 1.2.3 Affinities of Cephalochordata 1.2.4 Salient features of Urochordata 1.2.5 Structure and life history of Herdmania 1.2.6 Significance of Retrogressive metamorphosis
<b>December'19</b>	<b>UNIT II : Cyclostomata &amp; pisces</b> <b>Cyclostomata</b> 2.1.1 General characters of Cyclostomata 2.1.2 Comparison of the Petromyzon and Myxine <b>Pisces</b> .2.1 General characters of Fishes .2.2 Classification of fishes up to sub - class level with examples 2.2.3 Scoliodon - External features, Digestive system, Respiratory system, Heart, Brain 2.2.4 Migration in Fishes 2.2.5 Types of Scales 2.2.6 Dipnoi
<b>January'19</b>	<b>UNIT III : Amphibians &amp; reptiles</b> <b>Amphibia</b> 3.1.1 General characters of Amphibian 3.1.2 Classification of Amphibia upto orders with examples. 3.1.3 Rana hexadactyla - External features, Digestive system, Respiratory system, Heart, Brain <b>Reptilia</b> .2.1 General characters of Reptilia 3.2.2 Classification of Reptilia upto orders with examples 3.2.3 Calotes - External features, Digestive system, Respiratory system, Heart, Brain 3.2.4 Identification of Poisonous snakes and Skull in reptiles
<b>February'19</b>	<b>UNIT IV : Aves</b> 4.1.1 General characters of Aves 4.1.2 Classification of Aves upto subclasses with examples. 4.1.3 Columba livia - External features, Digestive system, Respiratory system, Heart, Brain 4.1.4 Migration in Birds 4.1.5 Flight adaptation in birds
<b>March'19</b>	<b>UNIT -V : Mammalia</b> 5.1.1 General characters of Mammalia 5.1.2 Classification of Mammalia upto sub - classes with examples 5.2 Comparison of Prototherians, Metatherians and Eutherians 5.3 Dentition in mammals

**SEMESTER –III PAPER-III (CYTOLOGY, GENETICS AND EVOLUTION)**

<b>MONTH</b>	<b>TOPIC COVERED</b>
<b>June'19</b>	<b>UNIT I : Cytology - I</b> 1.1 Definition, history, prokaryotic and eukaryotic cells, virus, viroids, mycoplasma 1.2 Electron microscopic structure of eukaryotic cell. 1.3 Plasma membrane –Different models of plasma membrane.
<b>July'19</b>	<b>UNIT II : Cell organelles</b> 2.1 Structure and functions of Endoplasmic Reticulum 2.2 Structure and functions of Golgi apparatus 2.3 Structure and functions of Lysosomes 2.4 Structure and functions of Ribosomes 2.5 Structure and functions of Mitochondria 2.6 Nucleus 2.7. Chromatin - Structure and significance, Chromosomes - Structure, types, functions
<b>August'19</b>	<b>UNIT III : Genetics - I</b> 3.1.1 Mendel's work on transmission on traits 3.1.2 Principles of inheritance 3.1.3 Incomplete dominance and codominance 3.1.4 Lethal alleles, Epistasis, Pleiotropy
<b>September'19</b>	<b>UNIT IV : Genetics - II</b> 4.1.1 Sex determination 4.1.2 Sex linked inheritance 4.1.3 Linkage and crossing over 4.1.4 Extra chromosomal inheritance 4.1.5 Human karyotyping
<b>October'19</b>	<b>UNIT V : Evolution</b> 5.1.1 Origin of life 5.1.2 Lamarckism, Darwinism, Neo – Darwinism, Hardy-Weinberg Equilibrium. 5.1.3 Variations, isolating mechanisms, natural selection 5.1.4 Types of natural selection (directional, stabilizing, disruptive) 5.1.5 Artificial selection and forces of evolution 5.1.6 Speciation (Allopatric and Sympatric) 5.1.7 Macro evolutionary principles (Example: Darwin's finches)

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**IV SEMESTER Paper-IV (EMBRYOLOGY, PHYSIOLOGY AND ECOLOGY)**

<b>MONTH</b>	<b>TOPIC COVERED</b>
<b>November'19</b>	<p><b>UNIT-I Developmental biology &amp; embryology</b></p> <p>1.1.1 Gametogenesis                      1.1.2 Fertilization                      1.1.3 Types of eggs                      1.1.4 Types of cleavages</p> <p><b>1.2 Development of Frog upto formation of primary germ layers</b></p> <p>1.3 Formation and functions of Foetal membrane in chick embryo                      1.4 Development, types and functions of Placenta in mammals</p>
<b>December'19</b>	<p><b>UNIT-II Physiology –I</b></p> <p>2.1.1 Elementary study of process of digestion                      2.1.2 Absorption of digested food                      2.1.3 Respiration - Pulmonary ventilation, transport of oxygen and carbondioxide                      2.1.4 Circulation - Structure and functioning of heart, Cardiac cycle                      2.1.5 Excretion - Structure of nephron, urine formation, counter current mechanism</p>
<b>January'20</b>	<p><b>UNIT-III Physiology – II</b></p> <p>3.1.1 Nerve impulse transmission - Resting membrane potential, origin and propagation of action potentials along myelinated and non-myelinated nerve fibers                      3.1.2 Muscle contraction - Ultra structure of muscle fibre, molecular and chemical basis of muscle contraction                      3.1.3 Endocrine glands - Structure, secretions and the functions (of hormones) of pituitary, thyroid, parathyroid, adrenal glands and pancreas                      3.1.4 Hormonal control of reproduction in a mammal</p>
<b>February'20</b>	<p><b>UNIT-IV Ecology - I</b></p> <p>4.1.1 Meaning and scope of Ecology                      4.1.2 Important abiotic factors of Ecosystem - Temperature, light, water, oxygen and CO<sub>2</sub>                      4.1.3 Nutrient cycles - Nitrogen, carbon and phosphorus                      4.1.4 Components of Ecosystem (Example: lake), food chains and food web, energy flow in ecosystem</p>
<b>March'20</b>	<p><b>Ecology –II &amp; Zoogeography Ecology - II</b></p> <p>5.1.1 Habitat and ecological niche                      5.1.2 Community interactions - Mutualism, commensalism, parasitism, competition, predation                      5.1.3 Ecological succession                      5.1.4 Population studies</p> <p><b>5.2 Zoogeography</b></p> <p>5.2.1 Zoogeographical regions                      5.2.2 Study of physical and faunal peculiarities of Oriental, Australian and Ethiopian regions</p>

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**SEMESTER-V PAPER-V (ANIMAL BIOTECHNOLOGY)**

<b>MONTH</b>	<b>TOPIC COVERED</b>
<b>June'19</b>	<p><b>Unit-II: Tools of Recombinant DNA technology - Enzymes and Vectors</b>  <b>Restriction modification systems:</b> Types I, II and III. Mode of action, nomenclature, applications of Type II restriction enzymes in genetic engineering  <b>DNA modifying enzymes and their applications:</b> DNA polymerases. Terminal deoxynucleotidyl transferase, kinases and phosphatases, and DNA ligases  <b>Cloning Vectors:</b> Plasmid vectors:pBR and pUC series, Bacteriophage lambda and M13 based vectors, Cosmids, BACs, YACs,</p>
<b>July'19</b>	<p><b>Unit -II Techniques of Recombinant DNA technology</b>  <b>Cloning:</b> Use of linkers and adaptors  <b>Gene delivery:</b> Microinjection, electroporation, biolistic method (gene gun), liposome and viralmediated delivery  <b>PCR:</b> Basics of PCR.  <b>DNA Sequencing:</b> Sanger's method of DNA sequencing- traditional and automated sequencing  <b>Hybridization techniques:</b> Southern, Northern and Western blotting, Genomic and cDNA libraries: Preparation and uses</p>
<b>August'19</b>	<p><b>UNIT -III Animal Cell Technology</b>  <b>Cell culture media:</b> Natural and Synthetic  <b>Cell cultures:</b> primary culture, secondary culture, continuous cell lines; Protocols for Primary Cell Culture; Established Cell lines (common examples such as MRC, HeLa, CHO, BHK, Vero); Organ culture; Cryopreservation of cultures.  <b>Hybridoma Technology:</b> Cell fusion, Production of Monoclonal antibodies (mAb), Applications of mAb  <b>Stem cells:</b> Types of stem cells, applications</p>
<b>September'19</b>	<p><b>Unit -IV Reproductive Technologies &amp; Transgenic Animals</b>  <b>Manipulation of reproduction in animals:</b> Artificial Insemination, In vitro fertilization , super ovulation, Embryo transfer, Embryo cloning  <b>Transgenic Animals:</b> Strategies of Gene transfer; Transgenic - sheep, - fish; applications</p>
<b>October'19</b>	<p><b>Unit -V Applied Biotechnology</b>  <b>Industry:</b>            Fermentation: Different types of Fermentation: Short notes on - Submerged &amp; Solid state; batch, Fed batch &amp; Continuous; Stirred tank, Air Lift, Fixed Bed and Fluidized; Downstream processing - Filtration, centrifugation, extraction, chromatography, spray drying and lyophilization  <b>Agriculture:</b> fisheries – monoculture in fishes, polyploidy in fishes; DNA fingerprinting</p>

**SEMESTER-V PAPER-VI (ANIMAL HUSBANDARY)**

<b>MONTH</b>	<b>TOPIC COVERED</b>
<b>June'19</b>	<b>UNIT - I : Introduction to poultry farming</b> General introduction to poultry farming. Principles of poultry housing. Poultry houses. Systems of poultry farming. Management of chicks, growers and layers. Management of Broilers.
<b>July'19</b>	<b>UNIT -II: Poultry feed management –</b> Principles of feeding. Nutrient requirements for different stages of layers and broilers. Methods of feeding. Poultry diseases – viral, bacterial, fungal and parasitic (two each); symptoms, control and management.
<b>August'19</b>	<b>UNIT -III: Selection, care and handling of hatching eggs.</b> Egg testing. Methods of hatching. Brooding and rearing. Sexing of chicks.
<b>September'19</b>	<b>UNIT - IV: Breeds of Dairy Cattle and Buffaloes –</b> Definition of breed; Classification of Indian Cattle breeds, exotic breeds and Indian buffalo breeds. Systems of inbreeding and crossbreeding. Housing of dairy animals – Selection of site for dairy farm; systems of housing – loose, housing system. Conventional dairy barn. Cleaning and sanitation of dairy farm. Weaning of calf. Castration and dehorning. Deworming and Vaccination programme. Records to be maintained in a dairy farm.
<b>October'19</b>	<b>UNIT - V: Care and management of dairy animals –</b> are and management of calf, heifer, milk animal, dry and pregnant animal, bulls and bullocks.

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**SEMESTER- VI PAPER-ELECTIVE VII (A), (IMMUNOLOGY)**

<b>MONTH</b>	<b>TOPIC COVERED</b>
<b>APRIL'21</b>	<b>Unit - I</b> 1.1 Overview of Immune system 1.1.1 Introduction to basic concepts in Immunology 1.1.2 Innate and adaptive immunity 1.2 Cells and organs of Immune system 1.2.1 Cells of immune system 1.2.2 Organs of immune system
<b>MAY'21</b>	<b>Unit - II</b> 2.1 Antigens 2.1.1 Basic properties of antigens 2.1.2 B and T cell epitopes, haptens and adjuvants 2.1.3 Factors influencing immunogenicity
<b>JUNE'21</b>	<b>Unit - III</b> 3.1 Antibodies 3.1.1 Structure of antibody 3.1.2 Classes and functions of antibodies 3.1.3 Monoclonal antibodies
<b>JULY'21</b>	<b>Unit - IV</b> 4.1 Working of Immune system 4.1.1 Structure and functions of major histocompatibility complexes 4.1.2 Exogenous and Endogenous pathways of antigen presentation and processing 4.1.3 Basic properties and functions of cytokines
<b>AUGUST'21</b>	<b>Unit - V</b> 5.1 Immune system in health and disease 5.1.1 Classification and brief description of various types of hypersensitivities 5.1.2 Introduction to concepts of autoimmunity and immunodeficiency

**SEMESTER- VI PAPER- B1 (PRINCIPLES OF AQUACULTURE)**

<b>MONTH</b>	<b>TOPIC COVERED</b>
<b>November'19</b>	<p><b>UNIT- I Introduction / Basics of Aquaculture</b></p> <p>1.1.1 Definition, Significance and History of Aquaculture</p> <p>1.1.2 Present status of Aquaculture – Global and National scenario</p> <p>1.1.3 Major cultivable species for aquaculture: freshwater, brackish water and marine.</p> <p>1.1.4 Criteria for the selection of species for culture</p>
<b>Decembert'19</b>	<p><b>UNIT -II : Types of Aquaculture</b></p> <p>2.1.1 Freshwater, Brackishwater and Marine</p> <p>2.1.2 Concept of Monoculture, Polyculture, Composite culture, Monosex culture and Integrated fish farming</p> <p><b>2.2 Culture systems</b></p> <p>2.2.1 Ponds, Raceways, Cages, Pens, Rafts and water recirculating systems</p> <p><b>2.3 Culture practices</b></p> <p>2.3.1 Traditional, extensive, modified extensive, semi-intensive and intensive cultures of fish and shrimp.</p>
<b>January'20</b>	<p><b>UNIT- III :</b></p> <p><b>3.1 Design and construction of aquafarms</b></p> <p>3.1.1 Criteria for the selection of site for freshwater and brackish water pond farms</p> <p>3.1.2 Design and construction of fish and shrimp farms</p> <p><b>3.2 Seed resources</b></p> <p>3.2.1 Natural seed resources and Procurement of seed for stocking: Carp and shrimp</p> <p><b>3.3 Nutrition and feeds</b></p> <p>3.3.1 Nutritional requirements of a cultivable fish and shellfish</p> <p>3.3.2 Natural food and Artificial feeds and their importance in fish and shrimp culture</p>
<b>February'20</b>	<p><b>UNIT -IV :</b></p> <p><b>4.1 Management of carp culture ponds</b></p> <p>4.1.1 Culture of Indian major carps: Pre-stocking management – Dewatering, drying, ploughing/desilting; Predators, weeds and algal blooms and their control, Liming and fertilization; Stocking management – Stocking density and stocking; Post-stocking management – Feeding, water quality, growth and health care; and Harvesting of ponds</p> <p><b>4.2 Culture of giant freshwater prawn, Macrobrachium rosenbergii</b></p>
<b>March'20</b>	<p><b>Unit – V</b></p> <p>5.1 Culture of shrimp (<i>Penaeus monodon</i> or <i>Litopenaeus vannamei</i>)</p> <p>5.2 Culture of pearl oysters</p> <p>5.3 Culture of seaweeds-species cultured, culture techniques, important by-products, prospects</p> <p>5.4 Culture of ornamental fishes – Setting up and maintenance of aquarium; and breeding.</p>

**SEMESTER- VI PAPER-B2 (AQUACULTURE MANAGEMENT)**

MONTH	TOPIC COVERED
November'19	<p><b>UNIT- I</b>  <b>1.1 Breeding and Hatchery Management</b>                      1.1.1 Bundh Breeding and Induced breeding of carp by Hypophysation; and use of synthetic hormones                      1.1.2 Types of fish hatcheries; Hatchery management of Indian major carps                      1.1.3 Breeding and Hatchery management of Penaeus monodon/ Litopenaeus vannamei                      1.1.4 Breeding and Hatchery management of giant freshwater prawn.</p>
Decembert'19	<p><b>UNIT –II</b>  <b>2.1 Water quality Management</b>                      2.1.1 Water quality and soil characteristics suitable for fish and shrimp culture                      2.1.2 Identification of oxygen depletion problems and control mechanisms in culture ponds                      2.1.3 Aeration: Principles of aeration and Emergency aeration                      2.1.4 Liming materials, Organic manures and Inorganic fertilizers commonly used and their implications in fish ponds</p>
January'20	<p><b>UNIT- III:</b>  <b>3.1 Feed Management</b>                      3.1.1 Live Foods and their role in shrimp larval nutrition.                      3.1.2 Supplementary feeds: Principal foods in artificial diets; Types of feeds; Feed additives and Preservatives; role of probiotics.                      3.1.3 Feed formulation and manufacturing; Feed storage                      3.1.4 Feeding strategies: Feeding devices, feeding schedules and ration size; Feed evaluation- feed conversion efficiencies and ratios</p>
February'20	<p><b>UNIT -IV:</b>  <b>4.1 Disease Management</b>                      4.1.1 Principles of disease diagnosis and health management;                      4.1.2 Prophylaxis, Hygiene and Therapy of fish diseases                      4.1.3 Specific and non-specific defense systems in fish; Fish immunization and vaccination                      4.1.4 Etiology, Symptoms, prophylaxis and therapy of common fish diseases in fish ponds                      4.1.5 Etiology, Symptoms, prophylaxis and therapy of common shrimp diseases in shrimp ponds</p>
March'20	<p><b>UNIT- V :</b>  <b>5.1 Economics and Marketing</b>                      5.1.1 Principles of aquaculture economics – Capital costs, variable costs, cost-benefit analysis                      5.1.2 Fish marketing methods in India; Basic concepts in demand and price analysis  <b>5.2 Fisheries Extension</b>                      5.1.3 Fisheries Training and Education in India; Role of extension in community development.  <b>5.3 Fish Genetics</b>                      5.1.4 Genetic improvement of fish stocks – Hybridization of fish.                      5.1.5 Gynogenesis, Androgenesis, Polyploidy, Transgenic fish, Cryopreservation of gametes, Production of monosex and sterile fishes and their significance in aquaculture.</p>

*H. S. Arora*

**SEMESTER- VI PAPER-B3 (POSTHARVEST TECHNOLOGY)**

<b>MONTH</b>	<b>TOPIC COVERED</b>
<b>November'19</b>	<b>UNIT- I:</b> <b>1.1 Handling and Principles of fish Preservation</b> 1.1.1 Handling of fresh fish, storage and transport of fresh fish, post mortem changes (rigor mortis and spoilage), spoilage in marine fish and freshwater fish. 1.1.2 Principles of preservation– cleaning, lowering of temperature, rising of temperature, denudation, use of salt, use of fish preservatives, exposure to lowradiation of gamma rays.
<b>Decembert'19</b>	<b>UNIT -II: Methods of fish Preservation</b> 2.1.1 Traditional methods - sun drying, salt curing, pickling and smoking. 2.1.2 Advanced methods – chilling or icing, refrigerated sea water, freezing, canning, Irradiation and Accelerated Freeze drying (AFD).
<b>January'20</b>	<b>UNIT- III:</b> <b>3.1 Processing and preservation of fish and fish by-products</b> 3.1.1Fish products – fish minced meat, fish meal, fish oil, fish liquid (ensilage), fish protein concentrate, fish chowder, fish cake, fish sauce, fish salads, fish powder, pet food from trash fish, fish manure. 3.1.2 Fish by-products – fish glue, ising glass, chitosan, pearl essence, shark fins, fish leather and fish maws. <b>3.2Seaweed Products</b> 3.2.1Preparation of agar, algin and carrageen. Use of seaweeds as food for humanconsumption, in diseasetreatment and preparation of therapeutic drugs.
<b>February'20</b>	<b>UNIT -IV:</b> <b>4.1Sanitation and Quality control</b> 4.2.1 Sanitation in processing plants - Environmental hygiene and Personal hygiene in processing plants. 4.2.2 Quality Control of fish and fishery products – pre-processing control, control during processing and control after processing. 4.2 General Regulatory affairs in industries
<b>March'20</b>	<b>UNIT- V:</b> <b>5.1 Quality Assurance, Management and Certification</b> 5.1.1Seafood Quality Assurance and Systems: Good Manufacturing Practices (GMPs); Good Laboratory Practices (GLPs); Standard Operating Procedures (SOPs); Concept of Hazard Analysis and Critical Control Points (HACCP) in seafood safety. 5.1.2 National and International standards – ISO 9000: 2000 Series of Quality Assurance System, Codex Alimentarius.

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**AQUACULTURE TECHNOLOGY ACADEMIC PLAN 2018-2019**

**SEMESTER-I PAPER-I (BASIC PRINCIPLES OF AQUACULTURE)**

MONTH	TOPIC COVERED
June'19	<b>UNIT- I:</b> <b>INTRODUCTION:</b> 1.1. Concept of Blue Revolution - History and definition of Aquaculture. Scope of Aquaculture at global Level, India and Andhra Pradesh. 1.2. Different Aquaculture systems – Pond, Cage, Pen, Running water, Extensive, Intensive and & Semi-Intensive Systems and their significance. 1.3. Monoculture, Polyculture and Monosex culture systems.
July'19	<b>UNIT II: POND ECOSYSTEM</b> 2.1 General Concepts of Ecology, Carrying Capacity and Food Chains. 2.2 Lotic and lentic systems, streams and spring. 2.3 Nutrient Cycles in Culture Ponds – Phosphorus, Carbon and Nitrogen Importance of Plankton and Benthos in culture ponds, nutrient dynamics and algal blooms. 2.4 Concepts of Productivity, estimation and improvement of productivity.
August'19	<b>UNIT III: TYPES OF FISH PONDS</b> 3.1 Classification of ponds based on water resources – spring, rain water, flood water, well water and water course ponds. 3.2 Functional classification of ponds – head pond, hatchery, nursery ponds. 3.3 Functional classification of ponds -rearing, production, stocking and quarantine ponds. 3.4 Fish Hatchery design.
September'19	<b>UNIT IV: POND PREPARATION</b> 4.1 Important factors in the construction of an ideal fish pond – site selection, topography. 4.2 Important factors in the construction of an ideal fish pond- nature of the soil, water resources. 4.3 Lay out and arrangements of ponds in a fish farm. 4.4 Construction of an ideal fish pond – space allocation, structure and components of barrage pond.
October'19	<b>UNIT V: POND MANAGEMENT FACTORS</b> 5.1 Need of fertilizer and manure application in culture ponds. 5.2 Role of nutrients; NPK contents of different fertilizers and manures used in aquaculture; and precautions in their application. 5.3 Physico-chemical conditions of soil and water optimum for culture – temperature, depth, turbidity, light, water and shore currents, PH, DOD, CO <sub>2</sub> and nutrients; measures to increase oxygen and reduce ammonia & hydrogen sulphide in culture ponds; correction of PH. 5.4 Eradication of predators and weed control – advantages and disadvantages of weed, weed plants in culture ponds, aquatic weeds, weed fish, toxins used for weed control and control of predators.

*N. Venkatesh*

**SEMESTER-II PAPER-II (BIOLOGY OF FIN FISH & SHELL FISH)**

<b>MONTH</b>	<b>TOPIC COVERED</b>
<b>November'19</b>	<p><b>UNIT I: General Characters &amp; Classification of Cultivable Fin &amp; Shell Fish:</b></p> <p>1.1 General Characters and classification of fishes, crustaceans and molluscs up to the level of Class.</p> <p>1.2 Fish, Crustaceans and Molluscs of commercial importance.</p> <p>1.3 Sense organs of fishes, crustaceans and molluscs.</p> <p>1.4 Buoyancy in fishes- swim bladder and mechanism of gas secretion.</p>
<b>December'19</b>	<p><b>UNIT II: Food, Feeding and Growth:</b></p> <p>2.1 Natural fish food, feeding habits, feeding intensity, stimuli for feeding, utilization of food gut content analysis, structural modifications in relation to feeding habits, forage ratio and food selectivity index.</p> <p>2.2 Principles of Age and growth determination; growth regulation, Growth rate measurement – scale method, otolith method, skeletal parts as age indicators.</p> <p>2.3 Genetic, biotic &amp; ecological factors in determining the longevity of fishes, lengthfrequency method, age composition, age-length keys, absolute and specific growth, back calculation of length and growth, annual survival rate, asymptomatic length, fitting of growth curve.</p> <p>2.4 Length-weight relationship, condition factor/Ponderal index, relative condition factor.</p>
<b>January'20</b>	<p><b>UNIT III: Reproductive Biology:</b></p> <p>3.1 Breeding in fishes, breeding places, breeding habits &amp; places.</p> <p>3.2 Breeding in natural environment and in artificial ponds, courtship and reproductive cycles.</p> <p>3.3 Induced breeding in fishes.</p> <p>3-4 Breeding in shrimp, pearl oyster, pila, and cephalopods.</p>
<b>February'20</b>	<p><b>UNIT IV: Development:</b></p> <p>4.1 Parental care in fishes, ovo-viviparity, oviparity, viviparity, nest building and brooding.</p> <p>4.2 Embryonic and larval development of fishes.</p> <p>4.3 Embryonic and larval development of shrimp, crabs and molluscs of commercial importance.</p> <p>4.4 Environmental factors affecting reproduction and development of cultivable aquatic fin &amp; shell fish.</p>
<b>March'20</b>	<p><b>UNIT V: Hormones &amp; Growth</b></p> <p>5.1 Endocrine system in fishes.</p> <p>5.2 Neurosecretary cells, androgenic gland, ovary.</p> <p>5.3 Y-organ, chromatophores, pericardial glands and cuticle.</p> <p>5.4 Molting, molting stages, metamorphosis in crustacean shell fish.</p>



**SEMESTER- III PAPER-III (FISH NUTRITION AND FEED TWECHNOLOGY)**

<b>MONTH</b>	<b>TOPIC COVERED</b>
<b>June'19</b>	<b>UNIT I: Nutritional Requirements of Cultivable Fish:</b> 1.1 Requirements for energy, proteins, carbohydrates, lipids, fiber, micronutrients for different stages of cultivable fish and prawns. 1.2 Essential aminoacids and fatty acids, protein to energy ratio, nutrient interactions and protein sparing effect. 1.3 Dietary sources of energy, effect of ration on growth, determination of feeding rate, check tray. 1.4 Factors affecting energy partitioning and feeding.
<b>July'19</b>	<b>UNIT II: Forms Of Feeds &amp; Feeding Methods:</b> 2.1 Feed conversion efficiency, feed conversion ratio and protein efficiency ratio. 2.2 Wet feeds, moist feeds, dry feeds, mashes, pelleted feeds, floating and sinking pellets, advantages of pelletization. 2.3 Manual feeding, demand feeders, automatic feeders, surface spraying, bag feeding and tray feeding. 2.4 Frequency of feeding.
<b>August'19</b>	<b>UNIT III: Feed Manufacture &amp; Storage:</b> 3.1 Feed ingredients and their selection, nutrient composition and nutrient availability of feed ingredients. 3.2 Feed formulation – extrusion processing and steam pelleting, grinding, mixing and drying, pelletization, and packing. 3.3 Water stability of feeds, farm made aqua feeds, micro-coated feeds, micro-encapsulated feeds and micro-bound diets. 3.4 .Microbial, insect and rodent damage of feed, chemical spoilage during storage period and proper storage methods.
<b>September'19</b>	<b>UNIT IV: Feed Additives &amp; Non-Nutrient Ingredients:</b> 4.1 Binders, anti-oxidants, probiotics. 4.2 Feed attractants and feed stimulants. 4.3 Enzymes, hormones, growth promoters and pigments. 4.4 Anti-metabolites, aflatoxins and fiber.
<b>October'19</b>	<b>UNIT V: Nutritional Deficiency In Cultivable Fish:</b> 5.1 Protein deficiency, vitamin and mineral deficiency symptoms. 5.2 Nutritional pathology and ant-nutrients. 5.3 Importance of natural and supplementary feeds. 5.4 Importance of balanced diet.

SEMESTER- IV PAPER-IV (FRESH WATER & BRACKISHWATER AQUACULTURE)

MONTH	TOPIC COVERED
November'19	<b>UNIT-I: Introduction to Freshwater Aquaculture</b> 1.1 Status, scope and prospects of fresh water aquaculture in the world, India and AP. 1.2 Different fresh water aquaculture systems.
December'19	<b>UNIT II: CARP Culture:</b> 2.1 Major cultivable Indian carps – Labeo, Catla and Cirrhinus & Minor carps. 2.2 Exotic fish species introduced to India – Tilapia, Pangassius and Clariussp. 2.3 Composite fish culture system of Indian and exotic carps. 2.4 Impact of exotic fish, Compatibility of Indian and exotic carps and competition among them.
January'20	<b>UNIT III: Culture of Air-Breathing and Cold Water Fish</b> 3.1 Recent developments in the culture of Clarius, Anabas, Murrels, 3.2 Advantages and constraints in the culture of air-breathing and cold water fishes- seed resources, feeding, management and production. 3.3 Special systems of Aquaculture- brief study of culture in running water, re-circulatory systems, cages and pens, sewage-fed fish culture.
February'20	<b>UNIT IV: Culture of Prawn</b> 4.1 Fresh water prawns of India - commercial value. 4.2 Macrobrachium rosenbergii and M. Malcomsonii – biology, seed production. 4.3 Pond preparation, stocking, management of nursery and grow-out ponds, feeding, and harvesting.
March'20	<b>UNIT V: Culture of Brackishwater Species</b> 5.1 Culture of P.mondon – Hatchery technology and Culture practices including feed and disease management. 5.2 Culture of L. vannamei – hatchery technology and culture practices including feed and disease management. 5.3 Mixed culture of fish and prawns.

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**DEPARTMENT OF MICROBIOLOGY**

**B.Sc CBMB**

**ACADEMIC PLAN 2019-20**

**I B.Sc., PAPER - I SEMESTER - I**

**Introduction to Microbiology and Microbial Diversity**

<b>Month</b>	<b>Name of the Topic</b>
June 2019	History and Mile stones in Microbiology Contributions of Scientists Importance and applications of Microbiology. Classification of microorganisms Outline classification of Bacteria as per Bergy's Manual of systematic classification
July 2019	Ultra-structure of Prokaryotic cell- General characteristics of Bacteria, Archea, Rickettsia, Mycoplasmas, Cyanobacteria, General characteristics of viruses, Cultivation of Viruses General characteristics of Fungi, Algae, Protozoa , Principles of microscopy
August 2019	Staining Techniques Sterilization and disinfection techniques Physical methods Chemical methods
September 2019	Isolation of microorganisms from natural habitats Pure culture techniques Preservation of microbial cultures

**I B.Sc., PAPER - II SEMESTER - II**

**MICROBIAL BIOCHEMISTRY & METABOLISM**

<b>Month</b>	<b>Name of the Topic</b>
November 2019	General characters and outline classification of Carbohydrates General characters of Amino acids & Proteins Fatty acids (saturated and unsaturated) Lipids Structure of nitrogenous bases, nucleotides
December 2019	Principle and applications of - Colorimetry Chromatography (paper, thin-layer, and column), Spectrophotometry (UV & visible), Properties and classification of Enzymes. Biocatalysis- induced fit and lock and key models. Inhibition of enzyme activity
January 2020	Nutritional requirements of Microorganisms Microbial Growth Methods for measuring microbial growth
February 2020	Aerobic respiration Anaerobic respiration

	Fermentation- Outlines of oxygenic and anoxygenic photosynthesis in bacteria
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**II B.Sc., PAPER-III SEMESTER - III  
MICROBIAL GENETICS AND MOLECULAR BIOLOGY**

<b>Month</b>	<b>Name of the Topic</b>
June 2019	DNA and RNA as genetic material. <ul style="list-style-type: none"> <li>• Structure and organization of prokaryotic DNA.</li> <li>• Extra chromosomal genetic elements – Plasmids and transposons in bacteria.</li> <li>• Replication of DNA</li> </ul>
July 2019	Mutations DNA damage and repair Mutagens Genetic recombination in bacteria Types of RNA and their functions. Genetic code. Structure of ribosomes
August 2019	Types of genes – structural, constitutive, regulatory <ul style="list-style-type: none"> <li>• Protein synthesis – Transcription and translation, regulation of gene expression in bacteria– lac operon</li> </ul>
September 2019	Basic principles of genetic engineering Outlines of gene cloning methods General account on application of genetic engineering

**II B.Sc., PAPER-IV - SEMESTER - IV  
Immunology and Medical Microbiology**

<b>Month</b>	<b>Name of the Topic</b>
November 2019	Types of immunity Primary and secondary organs of immune system Cells of immune system
December 2019	Antigens Antibodies Monoclonal antibodies Types of antigen-antibody reactions Host pathogen interactions
January 2020	• General principles of diagnostic microbiology General methods of laboratory diagnosis Host pathogen interactions • General principles of diagnostic microbiology General methods of laboratory diagnosis Antibacterial Agents Antifungal agents Antiviral substances Vaccines
February 2020	Bacterial diseases – Tuberculosis and Typhoid. <ul style="list-style-type: none"> <li>• Fungal diseases – Candidiasis.</li> </ul>

	<ul style="list-style-type: none"> <li>• Protozoal diseases – Malaria.</li> <li>• Viral Diseases - Hepatitis- A and AIDS.</li> </ul>
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III B.Sc., PAPER - V SEMESTER -V

**ENVIRONMENTAL & AGRICULTURAL MICROBIOLOGY**

Month	Name of the Topic
June 2019	Terrestrial Environment Aquatic Environment Atmosphere Role of microorganisms in nutrient cycling Treatment and safety of drinking
July 2019	Microbial interactions Outlines of Solid Waste management • Liquid waste management
August 2019	Plant Growth Promoting Microorganisms Outlines of biological nitrogen fixation Biofertilizers
September 2019	Concept of disease in plants Principles of plant disease control.

III B.Sc., PAPER - VI SEMESTER -V

**FOOD AND INDUSTRIAL MICROBIOLOGY**

Month	Name of the Topic
June 2019	Intrinsic and extrinsic parameters that affect microbial growth in food Microbial spoilage of food Food-borne diseases Food intoxication
July 2019	Principles of food preservation Fermented Dairy foods Microorganisms as food Probiotics
August 2019	Microorganisms of industrial importance Screening and strain improvement Types of fermentation processes Ingredients of Fermentation media
September 2019	Microbial production of Industrial products - Citric acid, Ethanol, amylases, penicillin, glutamic acid and vitamin B12.

### III B.Sc., SEMESTER -VI

#### Microbial Biotechnology

Month	Name of the Topic
November 2019	Microbial biotechnology Genetically engineered microbes for industrial application Recombinant microbial production processes in pharmaceutical industries Microbial biosensors
December 2019	• Microbial based transformation of steroids and sterols Bio-catalytic processes Immobilization methods and their application
January 2020	Biogas production Bio-ethanol and bio-diesel production Mineral recovery,
February 2020	Outlines of Intellectual Property Rights: Patents, Copyrights, Trademarks

#### Paper 8A1: Microbial Diagnosis in Health Clinics Cluster

Month	Name of the Topic
November 2019	Study of Bacteria and Protozoan Diseases affecting humans.
December 2019	Collection of clinical samples Method of transport of clinical samples to laboratory and storage. Examination of sample by staining Preparation and use of culture media
January 2020	Serological Methods Typhoid, Dengue and HIV, Swine flu.
February 2020	Importance, Determination of resistance/sensitivity of bacteria MIC



2019-20

III B.Sc: SEMESTER - VI

SA2: Microbial Quality Control in Food and Pharmaceutical Industries

Month	Name of the Topic
November 2019	Good laboratory practices Biosafety cabinets Discarding biohazardous waste
December 2019	Culture and microscopic methods Biochemical and immunological methods Molecular methods
January 2020	Enrichment culture technique Ascertaining microbial quality of milk
February 2020	Hazard analysis of critical control point (HACCP) Microbial Standards for Different Foods and Water

III B.Sc: Semester VI:

SA3 -BIOFERTILIZERS AND BIOPESTICIDES

Month	Name of the Topic
November 2019	General account of the microbes used as biofertilizers Symbiotic N <sub>2</sub> fixers • Frankia • Cyanobacteria and Azolla,
December 2019	• Free living Azospirillum, Azotobacter - isolation, characteristics, mass inoculum production and field application • Phosphate solubilizing microbes - Isolation, characterization, mass inoculum production, field application
January 2020	Importance of mycorrhizal inoculum, types of Mycorrhizae and associated plants, Mass inoculum production of VAM, field applications of Ectomycorrhizae and VAM.
February 2020	General account of microbes used as bioinsecticides Viruses – NPV cultivation and field applications.

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**DEPARTMENT OF HISTORY**  
**ANNUAL ACADEMIC PLAN 2019-20**  
**I B.A., Paper – I Semester - I**  
**History Ancient Indian History & Culture HIS1101**

Month	Unit	Topic covered
June 2019	Unit-I	Survey of Sources: Literary & Archaeological Sources- Influence of Geography on History - Unity in Diversity- Traces of Stone Age Cultures -Indus Valley Civilization
July 2019	Unit-II	Vedic Age & Religious Reform Movements - Jainism and Buddhism
	Unit- III	Mauryan Empire - Ashoka's Dhamma, Art & Architecture, Significance & Downfall
August 2019	Unit - IV	Kushans –The Age of Satavahanas: Sangam Age: The Three Early Kingdoms (Chola, Chera& Pandya)
September 2019	Unit – V	The Rise and Growth of Guptas: Administration, Society, Economy, Religion, Art, Literature and Science & Technology – Decline

**I B.A., PAPER – II SEMESTER – II**

**EARLY MEDIEVAL INDIAN HISTORY & CULTURE (600 A.D to 1526 A. D.)**

**Paper code: HIS2101**

Month	Unit	Topic covered
November 2019	Unit-I	Harsha & his Times - Chalukyas of Badami& Eastern Chalukyas of Vengi.
December 2019	Unit-II	Age of later Pallavas - The Chola Empire
	Unit- III	Conditions in India on the eve of Turkish Invasions - Arab Invasion, Ghazni & Ghori; Delhi Sultanate (1206 to 1290 A.D.) under Slave Dynasty.
January 2020	Unit - IV	Delhi Sultanate (1290 to 1526 A.D.): Khilji's - The Tughlaqs - Decline & Disintegration of the Delhi Sultanate; Administration
February 2020	Unit – V	Cultural Development in India between 13th& 15th Centuries A. D.: Impact of Islam on Indian Society and Culture – Bhakti and Sufi Movements

**II YEAR BA SEMESTER-III HIS3101 PAPER- III**

**LATE MEDIEVAL & COLONIAL HISTORY OF INDIA (1526 to 1857 A. D.)**

Month	Unit	Topic covered
June 2019	Unit-I	India from 1526 to 1707 A. D.: Emergence of Mughal Empire -- Sher Shah & Sur Interregnum– Rise of Marathas & Peshwas.
July 2019	Unit-II	Administration under the Mughals – Disintegration of Mughal Empire.
	Unit- III	India under Colonial Hegemony: Beginning of European Settlements – Consolidation of British Empire in India up to 1857 A. D.
August 2019	Unit - IV	Economic Policies of the British (1757-1857s: Spread of Modern Education
September 2019	Unit – V	Peasant & Tribal Revolts - 1857 Revolt – Causes, Nature& Consequences

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**II YEAR BA HISTORY PAPER IV SEMESTER-IV HIS4101**

**SOCIAL REFORM MOVEMENT & FREEDOM STRUGGLE (1820 to 1947 A.D.)**

Month	Unit	Topic covered
November 2019	Unit-I	Social, Religious & Self-Respect Movements: – Emancipation of Women – Struggle Against Caste
December 2019	Unit-II	Growth of Nationalism in the 2nd Half of 19th Century — Birth of Indian National Congress.
	Unit- III	Freedom Struggle from 1885 to 1920
January 2020	Unit - IV	Freedom Struggle from 1920 to 1947: Gandhiji's Role in the National Movement – Revolutionary Movement – Subhas Chandra Bose.
February 2020	Unit – V	Muslim League & the Growth of Communalism – Partition of India – Integration of Princely States into Indian Union – Sardar Vallabhai Patel

**III YEAR BA HISTORY PAPER V SEMESTER-V HIS5101**

**Age of Rationalism and Humanism (The world between 15th & 18th Cen.)**

Month	Unit	Topic covered
June 2019	Unit-I	Feudalism -Geographical Discoveries– Portugal
July 2019	Unit-II	The Renaissance Movement: Factors for the Growth of Renaissance – Reformation & Counter Reformation Movements
	Unit- III	Emergence of Nation States - The Glorious Revolution (1688) – Origin of Parliament – Constitutional Settlement – Bill of Rights – Results.
August 2019	Unit - IV	The American Revolution (1776) — Bill of Rights, 1791
September 2019	Unit – V	The French Revolution (1789) – Causes - Teachings of Philosophers -- Results.

**Semester – V Paper – VI HIS5102**

**History & Culture of Andhra Desa (from 12th to 19th Century A.D.)**

Month	Unit	Topic covered
June 2019	Unit-I	Andhra during 12th & 13th Centuries A.D.: Kakatiya's - The Age of Reddy Kingdoms
July 2019	Unit-II	Andhra between 14th & 16th Centuries A.D - Vijayanagara Empire – Decline and Downfall.
	Unit- III	The Qutb Shahis of Golkonda
August 2019	Unit - IV	East India Company's Authority over Andhra — Peasants and Tribal Revolts.
September 2019	Unit – V	Impact of Company Rule on Andhra- Impact of Industrial Revolution on – Impact of 1857 Revolt in Andhra

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Semester – VI Paper – VII-(A) :: (Elective Paper) HIS6101

History Of Modern Europe (From 19th Century To 1945 A. D.)

Month	Unit	Topic covered
November 2019	Unit-I	Industrial Revolution
December 2019	Unit-II	Unification Movements in Italy & Germany
	Unit- III	Communist Revolution in Russia
January 2020	Unit - IV	World War I- League of Nations.
February 2020	Unit – V	World War II- Fascism & Nazism – Results; The United Nations Organization:

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**DEPARTMENT OF ECONOMICS**  
**I BA-Economics**  
**ACADEMIC PLAN 2019-20**

**I SEMESTER**

MONTH	Micro Economics – Consumer Behavior
Jun-19	Nature, definition and scope of Economics - Wealth, Welfare, Scarcity and modern definitions
Jul-19	Methodology in Economics - Micro & Macro; Static and Dynamic analysis; Normative and positive science, Inductive & Deductive methods; Partial and general Equilibrium.
Aug-19	Utility analysis: - cardinal approach-The Law of diminishing Marginal utility- The Law of Equi-Marginal Utility- concept of consumer's surplus
Sep-19	Demand analysis - Law of Demand - Elasticity of Demand - Measurement of Elasticity of Demand - Price, Income & Cross Elasticities of Demand, Ordinal Approach: Indifference Curve analysis - Properties of Indifference curves - Price or budget line - Equilibrium of the Consumer with the help of Indifference curves –Samuelson's Revealed preference theory

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**DEPARTMENT OF ECONOMICS**  
**I BA-Economics**  
**ACADEMIC PLAN 2019-20**

**II SEMESTER**

MONTH	Micro Economics - Production and Price Theory
Nov-19	Production function-Concept of homogeneous production function-Cobb- Douglas Production function- Law of variable proportions-Law of Returns to Scale - Different Concepts of Costs – Explicit & Implicit, Opportunity, Total – fixed and Variable Costs, Marginal & Average Costs & its Relationship. Concept of Revenue – Total, Marginal & Average Revenue.
Dec-19	Analyse different types of Market structures - Perfect Competition - Price determination and equilibrium of firm and industry under perfect competition - Monopoly - Price determination - Price discrimination.
Jan-20	Monopolistic competition - price determination - Oligopoly - Kinked demand curve approach.
Feb-20	Marginal Productivity theory of distribution - Theories of wage determination Subsistence theory of wages, Standard of living theory of wages, Modern theory of wages and collective bargaining - concept of minimum wage
Mar-20	Theory of Rent: Ricardian theory of rent - Quasi rent concept of Alfred Marshall. Theories of Interest - Classical, Neo-classical and Keynes Liquidity Preference theory - Profit - dynamic, innovations

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DEPARTMENT OF ECONOMICS

II BA-Economics

ACADEMIC PLAN 2019-20

III SEMESTER

MONTH	Macro Economics-I
Jun-19	Meaning, definition of Macro Economics - Importance of Macro Economics- Difference between Micro and Macro Economics - Paradox of Macro Economics - Limitations
Jul-19	National Income - Definitions, Concepts of National Income - Measurement of National Income - Circular flow of Income in Two, Three and Four Sector Economy.
Aug-19	Classical theory of Employment - Say's Law of Markets-Keynesian Theory of Employment
Sep-19	Consumption function - Investment Function MPC, concepts of multiplier and accelerator
	Meaning and Functions of Money - Classification of Money - Gresham's Law - RBI classification of Money. Theories of Money

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DEPARTMENT OF ECONOMICS

II BA-Economics

ACADEMIC PLAN 2019-20

IV SEMESTER

MONTH	Macro Economics-II
Nov-19	Trade Cycles - meaning and definition - Phases of a Trade Cycle - Inflation - definition - types of inflation - causes and effects of inflation measures to control inflation.
Dec-19	Importance of International Trade -Regional and International Trade - Theories of Trade - Classical - Adam Smith and David Ricardo, Neo - Classical Theory of Trade - Heckscher and Ohlin. Leontief Paradox -
Jan-20	Macro Economic Policy - Fiscal, Monetary and Exchange rate policies Objectives and Significance - Functions of Commercial Banks - Concept of Credit creation - Functions of RBI. Concepts of Shares-Debentures - Stock Market - Functions - Primary and Secondary Markets
Feb-20	Insurance -Life Insurance, Concept of General Insurance Non-Bank Financial Institutions - Types of NBFIs - Factors contributing to the Growth of NBFIs -
Mar-20	Money market - Defects of Indian money market



**ASD GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) KAKINADA**  
**DEPARTMENT OF ECONOMICS**  
**III BA-Economics**  
**ACADEMIC PLAN 2019-20**

**V SEMESTER**

MONTH	Economic Development & Indian Economy
Jun-19	Concept of Economic Growth – Distinction between economic growth and development – Measurement of economic development – Theories of Economic Growth; Adam Smith, Rostow, Karl Marx and Harrod & Domar Models.
Jul-19	Sustainable development – Balanced and unbalanced growth – Choice of techniques Labour intensive and capital intensive methods.
Aug-19	Basic features of the Indian Economy – Natural Resources – Important Demographic features
Sep-19	Concept of Population Dividend – Population Policy. National Income in India – trends and composition – poverty, inequalities and Unemployment – Measures taken by the Government – MGNREGS.
	Economic reforms – liberalization, privatization and globalization – concept of inclusive growth

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MONTH	Indian and Andhra Pradesh Economy
Jun-19	Indian Agriculture – Importance of Agriculture in India – Agrarian structure and relations- Factors determining productivity – Agricultural Infrastructure – Rural credit – Micro Finance – Self Help Groups (SHGs) – Agricultural Price policy- concept of Crop Insurance- Food Security
Jul-19	Structure and growth of Indian Industry – Industrial policies of 1956 & 1991 Meaning of Micro small and Medium Enterprises (MSMEs) – Problems and Prospects of small scale Industries in India
Aug-19	Disinvestment in India – FEMA – Foreign direct investment – Services Sector in India – Reforms in Banking and Insurance – IT, Education and Health.
Sep-19	Planning in India Economy – Objectives of Five YEAR,s plans – Review of Five YEAR,s plans –
	Current five YEAR,s plan – NITI Aayog Economic reforms – liberalization, privatization and globalization – concept of inclusive growth Andhra Pradesh Economy – Population – GSDP – Sector Contribution and trends – IT Small Scale Industry – SEZs.



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**III BA-Economics**

**ACADEMIC PLAN 2019-20**

**VI SEMESTER**

<b>MONTH</b>	<b>Agricultural Economics</b>
Nov-19	Nature and Scope of Agricultural Economics. Factors affecting agricultural development: technological, institutional and general. Interdependence between agriculture and industry.
Dec-19	Concept of production function : input-output and product relationship in farm production
Jan-20	Growth and productivity trends in Indian agriculture with special reference to Andhra Pradesh. Agrarian reforms and their role in economic development.
Feb-20	Systems of farming, farm size and productivity relationship in Indian agriculture with special reference to Andhra Pradesh-New agriculture strategy and Green revolution: and its Impact.
Mar-20	Emerging trends in production, processing, marketing and exports; policy controls and regulations relating to industrial sector with specific reference to agro- industries in agribusiness enterprises

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**III BA-Economics**

**ACADEMIC PLAN 2019-20**

<b>MONTH</b>	<b>Agribusiness Environment in AP</b>
Nov-19	Role of agriculture in development process in Andhra Pradesh vis-à-vis other developed states. Economy wide effects of agriculture in Andhra Pradesh through trickle down effects. Backward and forward linkages of agriculture with rest of economy.
Dec-19	Agricultural finance-importance in modern agriculture – performance of agricultural finance in Andhra Pradesh – Problems of agricultural finance – Inter linkages of agricultural credit and other input markets and product markets.
Jan-20	Dynamics of agriculture-crop (horticulture, field crops), sector-livestock (poultry dairy and fisheries) sector and inter linkages among the sectors. Agribusiness sector in Andhra Pradesh – Salient features, constraints, sub sectors of agribusiness – input sector, production sector, processing sector.
Feb-20	Growth performance of major agricultural commodities in Andhra Pradesh – Production and processing trends in exports and imports of major agricultural commodities.
Mar-20	Marketing policy – structure of agri markets – regulated markets – need – activities – structure – APMC Act – market legislations – Role of Farmer Groups in the marketing of Agricultural Produce.

ASD GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) KAKINADA

DEPARTMENT OF ECONOMICS

III BA-Economics

ACADEMIC PLAN 2019-20

MONTH	Agricultural output Marketing
Nov-19	Structure and Model of Agri-Marketing Organizations with functions. Functions of intermediaries, Marketing Practices in Primary and Secondary and Terminal Market, Regulated Markets, Co-operative Marketing
Dec-19	Marketing costs and margins, Marketing Finance. Marketing Structure of Major agricultural commodities, food grains- Rice, and Maize. Cash Crops; Cotton, Oil Seeds, Vegetables and Fruits, Milk, Meat and Poultry Products
Jan-20	Problems and Challenges in Agriculture Marketing – Market Yards – Support Prices – Rural Warehousing. Role of Andhra Pradesh State Warehousing Corporation in marketing of Agricultural output.
Feb-20	State Intervention in Agricultural Marketing, Role of Various agencies (Andhra Pradesh Agro, MARKFED, State Department, and FCI, Tobacco Board, Cotton Corporation) and its impact on market efficiency. Agriculture Price Commission. NAFED
Mar-20	Inter-regional and international trade in agriculture; emerging scenario of international trade in agricultural commodities; concept of terms of trade and balance of payments, WTO and Indian agriculture with special reference to Andhra Pradesh

ASD GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) KAKINADA

DEPARTMENT OF ECONOMICS

III BA-Economics

ACADEMIC PLAN 2019-20

MONTH	PROJECT
Nov-19	Project
Dec-19	
Jan-20	
Feb-20	
Mar-20	

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**Department of Political Science**

**Annual Academic plan 2019-20**

Month	SEM – I – BASIC CONCEPTS OF POLITICAL SCIENCE	
June -2019	Unit – I	Explanatory Framework of politics 1. What is politics: Nature and scope of political science? 2. Approaches to the study of politics: Normative, Historical, Empirical, Traditions
July-2019	Unit – II	What is the state? 1. Origin and Evolution of the modern state 2. Different conceptions on the role of the modern state: Social democratic and Neo liberal
July-2019	Unit – III	Nationals and Nationalisms 1. Conceptual distinction between nationality and nation 2. Varieties of nationalism: Culture and civic nationalism
August-2019	Unit – IV	Rights and citizenship 1. Evolution of rights: civil and social rights 2. Citizenship: Universal and differential citizenship
September-2019	Unit – v	Freedom, Equality and Justice 1. Freedom: Negative and positive freedom 2. Equality; Formal equality, Equality of opportunity, Equality of outcome 3. Justice: Justice based on needs, Deserts and rights



Month	SEM – II – POLITICAL INSTITUTIONS	
November-2019	Unit – I	Constitutionalism 1. The purpose of constitutional law, Theory of separation of powers 2. Structure forms of the modern state: Basic features of parliamentary and presidential forms of government
December-2019	Unit – II	Territorial division of authority of the modern state 1. Basic features of federal form of government 2. Basic features of unitary form of government
January-2020	Unit – III	Institutional forms of the modern state 1. Democracy: Basic features of classical and modern representative democracy 2. Models of democracy: procedural democracy and substantive democracy
February-2020	Unit – IV	Judiciary and democratic state 1. The nature, Role and functions of the judiciary 2. Judicial Review: Debates on the supremacy of legislature or judiciary in the protection of constitutional law

Month	SEM – III – INDIAN CONSTITUTION	
June-2019	Unit – I	The making of the constitution 1. The ideological legacy of the Indian national movement on the constituent assembly 2. The nature and composition of the constituent assembly
July-2019	Unit – II	Philosophical premises of the Indian Constitution 1. Preamble: The underlying values of the Indian constitution 2. Salient features of the constitution of India
July-2019	Unit – III	Fundamental rights and directive principles of state policy 1. Individual and collective rights: Limitations on the fundamental rights 2. Judicial interpretation of fundamental rights 3. The doctrine of basic structure of the constitution
August-2019	Unit – IV	Indian federalism 1. Unitary and federal features in the Indian constitution 2. Tension areas between the union and state governments
September-2019	Unit – v	Working of the Indian constitution 1. The values of the Indian constitution and ushering of social revolution in India 2. The causes for the ascendancy of the executive over legislature and judiciary 3. Nature and role of higher judiciary in India

Month	SEM – IV – INDIAN POLITICAL PROCESS	
November-2019	Unit – I	Approaches to study the political processes In India 1. Theory of modernization: transition from tradition to modernity 2. Marxism approach; transition from pre – capitalism to capitalism
December-2019	Unit – II	Social structure and democratic process 1. Transition of caste system: from hierarchy to identity 2. Politicisation of intermediate and Dalit caste communities
January-2020	Unit – III	Religion and politics 1. Competing communalisms: Majoritarian and Majoritarian 2. Debates on secularism: role of the state towards religion
February-2020	Unit – IV	Party and electoral processes in India 1. Electoral trends of the loksabha from 1952 to 2014 from the one party congress system to multy party coalitions 2. Determinants of voting behaviour in India; The Ideology and Social Bases of Major Political Parties

Month	SEM – V – INDIAN POLITICAL THOUGHT	
June-2019	Unit – I	Tradition of ancient Indian political thought 1. Sources and features of ancient Indian political thought 2. Manu: social law 3. Koutilya: theory of the state
July-2019	Unit – II	Renaissance though 1. Ram Mohan Roy: Religious and social reform 2. Panditramabai: Gender
July-2019	Unit – III	Early nationalism 1. Dadabai Nouroji : Drain theory and poverty 2. Renadey MG: The role of the state and religious reform
August-2019	Unit – IV	Religious nationalism 1. Savarkar: Hindustan or Hindu culture nationalism 2. Mohammed Iqbal: Islamic communitarian nationalism
September-2019	Unit – v	Democratic egalitarianism 1. Gandhi – swaraj and Satyagraha 2. Jawaharlal Nehru – democratic socialism 3. Dr.B.R.Ambedkar – annihilation of caste system 4. M.N Roy: Radical humanism



Month	SEM – V – WESTREN POLITICAL THOUGHT	
June-2019	Unit – I	Classical western political thought 1. Plato: Theory of forms, Critique of democracy, Justice 2. Aristotle: Citizenship, State, Justice, Virtue
July-2019	Unit – II	Early medieval to the beginning of modern thought 1. St. Augustine: Earthly city and Heavenly city, Evil, Freewill, Moral action 2. Machiavelli, Statecraft, Virtue, Fortuna
July-2019	Unit – III	Liberal thought 1. Thomas Hobbes: Human nature, Social contract, Liberty, State 2. John Locke: Natural rights, Consent, Social contract, State 3. Rousseau: Social institutions and moral man, Equality, Liberty and general will
August-2019	Unit – IV	Liberal democratic thought 1. Jermy Bentham: Utilitarianism 2. John stuart mill: Individual liberty
September-2019	Unit – v	Philosophical idealism and its critique 1. Hegel: Individual freedom 2. Karl Marx: Alienation, Surplus value, Materialist Conception of History, State

Month	SEM – VI – LOCAL SELF GOVERNMENT IN A.P	
November-2019	Unit – I	<p>Evolution of Local self – government in India</p> <ol style="list-style-type: none"> <li>1. Constitutional provisions on local self-government</li> <li>2. Recommendations of Balwantrai Mehta and Ashok Mehta committees on local self-government</li> </ol>
December-2019	Unit – II	<p>Importance of constitutional amendments</p> <ol style="list-style-type: none"> <li>1. 73<sup>rd</sup> amendment – rural local bodies, Basic features</li> <li>2. 74<sup>th</sup> amendment – Urban local bodies, Basic features</li> </ol>
December-2019	Unit – III	<p>Structure and functions of panchayati raj in A.P</p> <ol style="list-style-type: none"> <li>1. Gram panchayat</li> <li>2. Mandalparishad</li> <li>3. Zillaparishad</li> <li>4. Municipalities nagar panchayat and municipal corporations</li> </ol>
January-2020	Unit – IV	<p>Structure and functions of urban local bodies in A.P</p> <ol style="list-style-type: none"> <li>1. Nagarapanchayats</li> <li>2. Municipalities</li> <li>3. Municipal corporations</li> </ol>
February-2020	Unit – v	<p>Role of leadership and emerging challenges</p> <ol style="list-style-type: none"> <li>1. Emerging patterns of leadership</li> <li>2. Problems of autonomy: Financial and Administrative spheres</li> </ol>

Month	SEM – VI – INTERNATIONAL RELATIONS (P – VIII)	
November-2019	Unit – I	<p>Basic concepts of International relations</p> <ol style="list-style-type: none"> <li>1. Meaning, Nature, Scope of International relations</li> <li>2. Balance of powers, National Interests, Collective security, Diplomacy</li> </ol>
December-2019	Unit – II	<p>Approaches to the study of International relations</p> <ol style="list-style-type: none"> <li>1. Idealism – Woodrow Wilson</li> <li>2. Classical realism – Hans Morgenthau</li> </ol>
December-2019	Unit – III	<p>Phases of International relations (1914 – 1945)</p> <ol style="list-style-type: none"> <li>1. Causes for the First World War</li> <li>2. Causes for Second World War</li> </ol>
January-2020	Unit – IV	<p>Phases of International relations (1945 on words)</p> <ol style="list-style-type: none"> <li>1. Origin of first cold war</li> <li>2. Rise and fall of détente</li> <li>3. Origins and the end of second cold war</li> </ol>
February-2020	Unit – v	<p>International Organisation</p> <ol style="list-style-type: none"> <li>1. The role of UNO in the protection of International peace</li> <li>2. Problems of the third world: Struggle for new International Economic Order</li> </ol>

Month	SEM – VI – INDIAN FOREIGN POLICY (P – IX)	
November-2019	Unit – I	Evolution of Indian Foreign policy 1. Determinants of Indian foreign policy 2. Continuity and change in Indian foreign policy
December-2019	Unit – II	Non – Alignment and UNO 1. The role of India in the Non – Alignment movement 2. Relevance of Non – Alignment movement in the contemporary world
December-2019	Unit – III	India's relation with USA and China 1. Indo – US relations: Pre – Cold war era, Post – cold war era 2. India – China relations: Pre – Cold war era, Post – cold war era
January-2020	Unit – IV	India and her Neighbours 1. Indo – Pakistan relations 2. India's role in south Asian association of regions cooperation (SAARC)



Month	SEM – VI – CONTEMPORARY GLOBAL ISSUES (P – X)	
November-2019	Unit – I	Concepts of Globalization 1. Economic Concepts of Globalization 2. Political Concepts of Globalization
December-2019	Unit – II	Anchors of global political economy 1. International monetary fund – Nature, Role and functions 2. World bank – Nature, Role and functions 3. World trade organization
December-2019	Unit – III	National state and globalization 1. The role of nation state in the context of globalization 2. Consequences of globalization – Rise of Inequalities within and across nation
January-2020	Unit – IV	Contemporary Global Issues 1. Ecological issues: International Agreements on climate change 2. International terrorism: Non – state actors and state terrorism



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**ANNUAL ACADEMIC PLAN 2019-2020**

**SEMESTER-I- ACCOUNTING-I**

<b>MONTH</b>	<b>TOPIC</b>
<b>JUNE 2019</b>	<b>UNIT1: Introduction</b> - Need for Accounting – Definition – Objectives, – Accounting Concepts and Conventions – GAAP - Accounting Cycle - Classification of Accounts and its Rules –
<b>JULY 2019</b>	Book Keeping and Accounting - Double Entry Book-Keeping - Journalizing - Posting to Ledgers, Balancing of Ledger Accounts  <b>Subsidiary Books:</b> Types of Subsidiary Books - Cash Book, Three-column Cash Book- Petty Cash Book.
<b>AUGUST 2019</b>	<b>Trial Balance and Rectification of Errors:</b> Preparation of Trial balance - Errors – Meaning – Types of Errors – Rectification of Errors – Suspense Account. <b>Bank Reconciliation Statement:</b> Need for Bank Reconciliation - Reasons for Difference between Cash Book and Pass Book Balances-
<b>SEP 2019</b>	Preparation of Bank Reconciliation Statement - Problems on both Favourable and Unfavourable Balance. <b>Final Accounts:</b> Preparation of Final Accounts: Trading account – Profit and Loss account – Balance Sheet – Final Accounts with Adjustments

MONTH	TOPIC
<b>JUNE 2019</b>	<b>Introduction Concepts of Business, Trade, Industry and Commerce:</b> Business – Meaning, Definition, Features and Functions of Business - Trade Classification – Aids to Trade – Industry Classification and Commerce - Factors Influencing the Choice of Suitable form of Organisation
<b>JULY 2019</b>	<b>Forms of Business Organizations:</b> Features, Merits and Demerits of Sole Proprietor Ship and Partnership Business - Features Merits and Demits of Joint Stock Companies - Public Sector Enterprises (PSEs) - Multinational Corporations (MNCs)- Differences between Private Limited Public Limited Company
<b>AUGUST 2019</b>	<b>Company Incorporation:</b> Preparation of Important Documents for Incorporation of Company - Certificate of Incorporation and Certificate of Commencement of Business - Contents of Memorandum and Articles of Association - Contents of Prospectus.
<b>SEP 2019</b>	<b>Management:</b> Meaning Characteristics - Fayol's 14 Principles of Management - Administration Vs Management - Levels of Management  <b>Functions of Management:</b> Different Functions of Management - Meaning – Definition – Characteristics Merits and Demits of Planning - Principles of Organization – Line and staff of Organization



## SEMESTER-I Business Organization and Management

### SEMESTER-I Business Economics-I

MONTH	TOPICS
JUN 2019	Introduction: Meaning and Definitions of Business Economic- Nature and Scope of Business Economics - Micro and Macro Economics and their Interface.
JUL 2019	Demand Analysis: Meaning and Definition of Demand – Determinants to Demand–Demand Function -Law of Demand – Demand Curve – Exceptions to Law of Demand - Elasticity of Demand –Measurements of Price Elasticity of Demand.
AUG 2019	Production, Cost and Revenue Analysis: Concept of Production Function – Law of Variable Proportion -Law of Returns to Scale - Classification of Costs -Break Even Analysis –Advantages.  Unit-IV: Market Structure: Concept of Market – Classification of Markets -Perfect Competition –Characteristics – Equilibrium Price
SEP2019	-Monopoly – Characteristics – Equilibrium Under Monopoly. National Income :Meaning – Definition – Measurements of National Income -Concepts of National Income -Components of National Income-Problems in Measuring National Income

## SEMESTER-I ENTREPRENEURSHIP DEVELOPMENT

<b>MONTH</b>	<b>TOPIC</b>
<b>JUN 2019</b>	<b>Entrepreneurship:</b> Definition and Concept of entrepreneurship – Entrepreneur- Characteristics – Classification of Entrepreneurs –Role of Entrepreneurship in Economic Development –Start-ups.
<b>JULY 2019</b>	<b>Idea Generation and Project Formulation:</b> Ideas in Entrepreneurships – Sources of New Ideas – Techniques for Generating Ideas –
<b>AUG 2019</b>	Preparation of Project Report –Contents; Guidelines for Report preparation – Project Appraisal Techniques –Economic Analysis-Financial Analysis-Market Analysis.
<b>SEP2019</b>	<b>Institutions Supporting and Taxation Benefits:</b> Central level Institutions: NABARD; SIDBI,– State Level Institutions – DICs – SFC - Government Policy for MSMEs - Tax Incentives and Concessions.

**DEPARTMENT OF COMMERCE**

**SEMESTER-II Accounting-II**

**ASD GOVERNMENT DEGREE COLLEGE FOR WOMEN (AUTONOMOUS),KAKINADA**

<b>MONTH</b>	<b>TOPIC</b>
OCT 2019	<b>Depreciation:</b> Meaning and Causes of Depreciation - Methods of Depreciation: Straight Line – Written Down Value –Annuity and Depletion Method.
NOV 2019	<b>Provisions and Reserves:</b> Meaning – Provision vs. Reserve – Preparation of Bad Debts Account – Provision for Bad and Doubtful Debts – Provision for Discount on Debtors Provision for Discount on Creditors - Repairs and Renewals Reserve A/c.
DEC2019	<b>Bills of Exchange:</b> Meaning of Bill – Features of Bill – Parties in the Bill Discounting of Bill – Renewal of Bill – Entries in the Books of Drawer and Drawee
JAN 2020	<b>Consignment Accounts:</b> Consignment - Features - Proforma Invoice - Account Sales –Del-Credere Commission - Accounting Treatment in the Books of Consigner and Consignee - Valuation of Closing Stock - Normal and Abnormal Losses
FEB 2020	<b>Joint Venture Accounts:</b> Joint Venture - Features - Difference between Joint- Venture and Consignment – Accounting Procedure – Methods of Keeping Records–One Vendor Keeps the Accounts and Separate Set off Books Methods

SEMESTER-II Business Economics-II

MONTH	TOPIC
OCT 2019	<b>Introduction:</b> Techniques of maximization of output, Minimization of costs
NOV 2019	and maximization of profit-Scale of production-Economies and Dis-economies of Scale-Cost of production-Cobb and Douglas.
DEC2019	<b>Market Structure-I:</b> Concept of Market – Classification of Markets -Perfect Competition– Characteristics – Equilibrium Price -Monopoly – Characteristics – Equilibrium Under Monopoly.
JAN 2020	<b>Market Structure-II:</b> Monopolistic Competition-Product differentiation-Profit maximization- Price and output in the short and Long- Run-Oligopoly-Kinked Demand Curve- Marginal Productivity- Theory of Distribution.\
FEB 2020	<b>Unit-V: National Income: Meaning</b> – Definition – Measurements of National Income - Concepts of National Income -Components of National Income-Problems in Measuring National Income

## SEMESTER-II Business Environment

MONTH	TOPIC
<b>OCT 2019</b>	<b>Overview of Business Environment:</b> Business Environment – Meaning – Characteristics – Scope -Macro and Micro Dimensions of Business Environment - Environmental Analysis.
<b>NOV 2019</b>	<b>Economic Environment:</b> Economic Environment – Nature of the Economy – Structure of Economy – Economic Policies & Planning the Economic Condition – NITI Ayog – National Development Council – Five Year Plans
<b>DEC2019</b>	<b>Economic Policies:</b> Economic Reforms and New Economic Policy – New Industrial Policy – Competition Law – Fiscal Policy – Objectives and Limitations – Monetary Policy and RBI
<b>JAN 2020</b>	<b>Social, Political and Legal Environment: Concept of Social Responsibility of Business towards Stakeholders-</b> Demonetisation, GST and their Impact - Political Stability – LegalChanges.
<b>FEB 2020</b>	<b>Global Environment :</b> Globalization – Meaning – Role of WTO – WTO Functions - IBRD– Trade Blocks, BRICS, SAARC, ASEAN in Globalization.



### SEMESTER-III-Corporate Accounting

<b>MONTH</b>	<b>TOPIC</b>
<b>JUN2019</b>	<b>Accounting for Share Capital</b> – division of share capital – equity share vs preferenceshares -Issue and forfeiture of shares (preparation of journals)- concept & process of book building - Issue of rights and bonus shares - Buyback of shares
<b>JULY2019</b>	<b>Issue of Debentures</b> – difference between share and debenture – types of debentures - Employee Stock Options – Accounting Treatment for Convertible and Non-Convertible debentures
<b>AUG 2019</b>	<b>Valuation of Goodwill and Shares:</b> Need and methods - Normal Profit Method, Super Profits Method – Capitalization Method - Valuation of shares - Need for Valuation - Methods of Valuation - Net assets method, Yield basis method, Fair value method
<b>SEP2019</b>	<b>Company Final Accounts:</b> Preparation of Final Accounts – Adjustments relating to preparation of final accounts – Profit and loss account and balance sheet.  <b>Provisions of the Companies Act, 2013</b> relating to issues of shares and debentures - Book Building- Preparation of Balance Sheet and Profit and Loss Account – Schedule-III.

### SEMESTER-III Banking Theory and Practice

MONTH	TOPIC
June 2019	<b>Introduction:</b> Meaning & Definition of Bank – Functions of Commercial Banks – Credit Creation with Examples - Kinds of Banks – Central Banking Vs. Commercial Banking.
July 2019	Banking Systems: Unit Banking, Branch Banking, Investment Banking - Innovations in Banking – E banking - Online and Offshore Banking, Internet Banking - Anywhere Banking - ATMs – RTGS- NEFT – MobileBanking
August 2019	Types of Banks: Indigenous Banking - Cooperative Banks, Regional Rural Banks, SIDBI, NABARD - EXIM bank. Banker and Customer: Meaning and Definition of Banker and Customer – Types of Customers – General Relationship and Special Relationship between Banker and Customer - KYC Norms.
September 2019	Collecting Banker and Paying Banker: Concepts - Duties & Responsibilities of Collecting Banker – Holder for Value – Holder in Due Course – Statutory Protection to Collecting Banker - Responsibilities of Paying Banker - Payment Gateways.

## SEMESTER-III BUSINESS STATISTICS

MONTH	TOPIC
June 2019	<p><b>: Introduction to Statistics:</b>            Definition, importance and limitations of statistics - Collection of data - Schedule and questionnaire – Frequency distribution – Tabulation - Diagrammatic and graphic presentation of data using Computers</p>
July 2019	<p><b>Measures of Central Tendency:</b>            Types of Averages – Qualities of Good Average - Mean, Median, Mode, and Median based Averages-Geometric Mean – Harmonic Mean</p>
August 2019	<p><b>Measures of dispersion and Skewness:</b>            Properties of dispersion – Range - Quartile Deviation –Mean Deviation- Standard- Deviation- Coefficient of Variation</p> <p><b>Skewness and Kurtosis:</b> Measures of Skewness: Absolute and Relative Measures- Co-efficient of Skewness: Karl Pearson’s, Bowley’s and Kelly’s - Kurtosis: Meso kurtosis, Platy kurtosis and</p>
September 2019	<p><b>Measures of Relation:</b>            Meaning and use of correlation – Types of correlation-Karlpearson’s correlation-coefficient –Spearman’s Rank correlation</p>

**ASD GOVERNMENT DEGREE COLLEGE FOR WOMEN (AUTONOMOUS),  
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**DEPARTMENT OF COMMERCE**

**ANNUAL ACADEMIC PLAN 2021-2022**

**SEMESTER-IV INCOME TAX**

<b>MONTH</b>	<b>TOPIC</b>
NOV2019	<b>Introduction:</b> to Income Tax Law - Basic concepts: Income, Person, Assesse, Assessment year, Agricultural Income, Capital and revenue, Residential status, Income exempt from tax
<b>DEC 2019</b>	<b>Income from salary:</b> Allowances, perquisites, profits in lieu of salary, deductions from salary income, computation of salary income and qualified savings eligible for deduction u/s 80C
<b>JANUARY2020</b>	<b>Income from House Property:</b> Annual value, let-out/self occupied/ deemed to be let-out house, deductions from annual value - computation of income from house property
<b>FEBRUARY2020</b>	<b>Income from Capital Gains</b> ( including problems on long term capital gains)- Income from other sources - (from Individual point of view) - chargeability - and assessment <b>Computation of total income of an individual</b> - Deductions under section - 80

## SEMESTER-IV BUSINESS LAW

<b>MONTH</b>	<b>TOPIC</b>
NOVEMBER 2019	<b>Contract</b> Meaning and Definition of Contract-Essential elements of valid Contract -Valid, Void and Voidable Contracts - Indian Contract Act, 1872
DECEMBER 2019	<b>Offer and Acceptance</b> Definition of Valid Offer, Acceptance and Consideration -Essential elements of a Valid Offer, Acceptance and Consideration
JANUARY2020	<b>Capacity of the Parties and Contingent Contract</b> Rules regarding to Minors contracts - Rules relating to contingent contracts - Different modes of discharge of contracts-Rules relating to remedies to breach of contract.
FEBRUARY2020	<b>Sale of Goods Act 1930</b> Contract of sale - Sale and agreement to sell - Implied conditions and warranties - Rights of unpaid vendor. Cyber Law and Contract Procedures - Digital Signature - Safety Mechanisms.

## SEMESTER-IV ACCOUNTING FOR SERVICE ORGANISATION

<b>MONTH</b>	<b>TOPIC</b>
NOVEMBER 2019	<b>Non-Trading/ Service Organizations:</b> Concept -Types of Service Organizations-Section (8) and other Provisions of Companies Act, 2013.  <b>Electricity Supply Companies:</b>  Accounts of Electricity supply companies: Double Accounting system-Revenue Account - Net revenue Account - Capital Account - General Balance Sheet
<b>DECEMBER 2019</b>	<b>Bank Accounts</b> Bank Accounts - Books and Registers to be maintained by Banks – Banking Regulation Act, 1969 -Legal Provisions Relating to preparation of Final Accounts
<b>JANUARY2020</b>	<b>Insurance Companies</b> Life Insurance Companies -Preparation of Revenue Account, Profit and Loss Account, Balance Sheet (including problems)-LIC Act, 1956
<b>FEBRUARY2020</b>	<b>General Insurance</b> Principles - Preparation of final accounts - with special reference to fire and marine insurance (theory only)-GICAct, 1972.



**ASD GOVERNMENT DEGREE COLLEGE FOR WOMEN (AUTONOMOUS),  
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**SEMESTER-V COST ACCOUNTING**

<b>MONTH</b>	<b>TOPIC</b>
June 2019	<b>Introduction:</b> Cost Accounting: Definition – Features – Objectives – Functions – Scope – Advantages and Limitations - Management Accounting: Features– Objectives–Functions – Elements of Cost –Preparation of Cost Sheet
July 2019	<b>Material and Labour Cost:</b> Techniques of Inventory Control – Valuation of Material Issues: FIFO - LIFO -Simple and Weighted Average Methods. Labour: Direct and Indirect Labour Cost – Methods of Payment of Wages- Incentive Schemes - Time Rate Method, Piece Rate Method, Halsey, Rowan Methods and Taylor Methods only
August 2019	<b>Job Costing and Batch Costing:</b> Definition and Features of Job Costing – Economic Batch Quantity (EBQ) –Preparation of Job Cost Sheet –Problems on Job Cost Sheet.  <b>Financial Statement Analysis and Interpretation:</b> Financial Statements- Features, Limitations. Need, Meaning, Objectives, and Process of Financial Statement Analysis-
September 2019	Comparative Analysis – Common Size Analysis and Trend Analysis <b>Marginal Costing:</b> Meaning and Features of Marginal Costing – Contribution –Profit Volume Ratio- Break Even Point –Margin of Safety –Estimation of Profit and Estimation of Sales

## SEMESTER-V BUSINESS LEADERSHIP

MONTH	TOPIC
June 2019	<b>Introductory:</b> Leadership - Traits, Skills and Styles- Leadership Development - Qualities of a Good Leader.
July 2019	<b>Decision-Making and Leadership:</b> Leadership for Sustainability Power, Influence, Impact -
August 2019	Leadership Practices - Organizations and Groups: Organizational Culture and Leadership - Leadership in Business Organizations
September 2019	<b>Special Topics:</b> Profiles of a few Inspirational Leaders in Business – Jemshedji Tata - Aditya Birla - Swaraj Paul - L N Mittal - N R Narayana Murthy - Azim Premji, etc.

## SEMESTER-V GST Fundamentals

MONTH	TOPIC
June 2019	Introduction: Overview of GST - Concepts - Limitations of VAT - Need for Tax Reforms -Justification for introduction of GST - Shortcomings and advantages at the Central Level and StateLevel on introduction of GST- Process of Introduction of GST - Constitutional Amendments.
July 2019	GST: Principles - Comprehensive structure of GST model in India: Single DualGST.  Transactions covered under GST. Taxes and Duties: Subsumed under GST - Taxe and Duties outside the purview of GST.
August 2019	containing Alcohol - Tax on Petroleum products - Tax on Tobacco products - Taxation  Inter-State Goods and Services Tax: Major advantages of IGST Model – InterstateInter-State Goods and Services Tax: Major advantages of IGST Model - Interstate Goods
September 2019	Service Tax: Transactions within a State under GST - Interstate Transactions under GST -Illustrations. Time of Supply of Goods & Services: Value of Supply - Input Tax Credit - Distribution ofCredit - Matching of Input Tax Credit - Availability of credit in special circumstances- Cross utilization of ITC between the Central GST and the State GST.

## SEMESTER-V COMMERCIAL GEOGRAPHY

MONTH	TOPIC
June 2019	<p><b>The Earth:</b> Internal structure of the Earth – Latitude – Longitude – Realms of the Earth – Evolution of the Earth – Environmental pollution - Global Warming - Measures to be taken to protect the Earth.</p> <p><b>India – Agriculture:</b> Land Use - Soils - Major crops – Food and Non-food Crops</p>
July 2019	<p><b>Importance of Agriculture – Problems in Agriculture – Agriculture Development.</b></p> <p><b>India – Forestry:</b> Forests – Status of Forests in Andhra Pradesh – Forest (Conservation) Act, 1980 – Compensatory Afforestation Fund (CAF) Bill, 2015</p>
August 2019	<p>- Forest Rights Act, 2006 and its Relevance – Need for protection of Forestry</p> <p><b>India – Minerals and Mining:</b> Minerals – Renewable and non Renewable – Use of Minerals – Mines – Coal, Barites, etc. – Singareni Coal mines and Mangampeta Barites - District- wise Profile.</p>
September 2019	<p><b>India – Water Resources – Rivers:</b> Water resources - Rationality and equitable use of water – Protection measures - Rivers - Perennial and peninsular Rivers - Interlinking of Rivers - Experience of India and Andhra Pradesh.</p>

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**SEMESTER-VI**

**SEMESTER VI -MARKETING**

<b>MONTH</b>	<b>TOPIC</b>
<b>NOVEMBER 2019</b>	<b>: Introduction:</b> Concepts of Marketing: Product Concept – Selling Concept - Societal Marketing Concept – Marketing Mix - 4 P’s of Marketing – Marketing Environment.
<b>DECEMBER 2019</b>	<b>Consumer Markets and Buyer Behavior:</b> Buying Decision Process – Stages – Buying Behavior – Market Segmentation – Selecting Segments – Advantages of Segmentation.
<b>JANUARY2020</b>	<b>Product Management:</b> Product Life Cycle - New products, Product mix and Product line decisions - Design, Branding, Packaging and Labeling.  <b>Pricing Decision:</b> Factors influencing price determination, Pricing strategies: Skimming and Penetration pricing.
<b>FEBRUARY2020</b>	<b>Promotion and Distribution:</b> Promotion Mix - Advertising - Publicity – Public relations - Personal selling and Direct marketing - Distribution Channels – Online marketing- Global marketing.

## SEMESTER VI-AUDITING

MONTH	TOPIC
NOVEMBER 2019	<b>Auditing:</b> Meaning – Objectives – Importance of Auditing – Auditing as a Vigil Mechanism – Role of Auditor in checking corporate frauds.
<b>DECEMBER 2019</b>	<b>Types of Audit:</b> Based on Ownership and time - Independent, Financial, Internal, Cost, Tax, Government, Secretarial audits.  <b>Planning of Audit:</b> Steps to be taken at the commencement of a new audit
<b>JANUARY2020</b>	- Audit programme - Audit note book - Internal check, internal audit and internal control.  <b>Vouching and Investigation:</b> Vouching of cash and trading transactions - Investigation, Auditing vs. Investigation
<b>FEBRUARY2020</b>	<b>Company Audit and Auditors Report:</b> Auditor's Qualifications – Appointment and Reappointment – Rights, duties, liabilities and disqualifications - Audit report: Contents – Preparation - Relevant Provisions of Companies Act, 2013.



## SEMESTER VI-MANAGEMENT ACCOUNTING

MONTH	TOPIC
NOVEMBER 2019	<b>Management Accounting:</b> Interface with Financial Accounting and Cost Accounting - Financial Statement analysis and interpretation: Comparative analysis – Common size analysis and trend analysis
<b>DECEMBER 2019</b>	<b>Ratio Analysis:</b> Classification, Importance and limitations - Analysis and interpretation of Accounting ratios - Liquidity, profitability, activity and solvency ratios
<b>JANUARY2020</b>	<b>Fund Flow Statement:</b> Concept of fund: Preparation of funds flow statement. Uses and limitations of funds flow analysis  <b>Cash Flow Statement:</b> Concept of cash flow – Preparation of cash flow statement - Uses and limitations of cash flow analysis
<b>FEBRUARY2020</b>	<b>Break-Even Analysis and Decision Making:</b> Calculation of Break-even point - Uses and limitations - Margin of safety – Make/Buy Decision - Lease/own Decision

## SEMESTER VI-TALLY WITH GST

MONTH	TOPIC
NOVEMBER 2019	Introduction to GST, Difference between GST and VAT – Taxes subsumed under GST, Exempt from GST, components of GST Registration, benefits of GST.  GST Transaction, GST Rates, Ledgers, Ledger Creation –
DECEMBER 2019	Single and multiple ledgers, altering ledgers, configure stock ledger, GST rate allocation to stocks.  GST Invoices – Creating New Voucher types,
JANUARY 2020	Customizing the existing voucher types with applicable GST rates, alteration of vouchers, deletion of vouchers, input tax credit on purchase vouchers.
FEBRUARY 2020	GST Returns – Regular monthly filing of returns composition, quarterly filing returns, generation for returns Form GSTR-1, Form GSTR-2 and Forjm GSTR – 3.  Payment of GST taxes online, reverse charge mechanism, records to be maintained.



## SEMESTER VI-Event Management

MONTH	TOPIC
NOVEMBER 2019	<p><b>Event Concept:</b> Corporate Events and Customer's needs- Type of events-corporate hospitality-Exhibitions-Trade Fair-Conferences-</p>
DECEMBER 2019	<p>Business and Government Meets-Corporate event packages</p> <p><b>Outdoor Events:</b> Logistics, Types of Outdoor events, Risk Management-Health and Safety, Marketing and Sponsorship</p>
JANUARY 2020	<p>HR Management, Programming and Entertainment</p> <p><b>Celebrity Events:</b> Launches, Fashion Show, National Festivals and High-Profile charity events- Liaison with agents, Contract Negotiations,</p>
FEBRUARY 2020	<p>Client benefits, Liaison with Govt Departments.</p>

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