



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



2018-19

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

Meeting

12-4-18

The Staff meeting was held on 12-04-18 in the Principal's Chamber with Principal in chair at 11.00 AM to discuss the following agenda.

Agenda:

1. Discussion on the Conduct of BOS off all departments
2. Applying for the advance to meet the expenditure of BOS.
3. Preparation of Hand book with syllabus, Question Paper etc. Semester wise with additional inputs.
4. Acquire approval from BOS for the conduct of Certificate courses
5. Preparation of Academic calendar and Institutional Plan for the academic year 2018-2019

Discussion:- In view of conducting Board of studies (BOS) for the commencing academic Year 2018-2019 Semester wise, Principal felt the need to discuss the matter with the staff and resolved to conduct BOS meeting for all the departments at their convenient dates. It is resolved to intimate the same to the members of BOS in advance for their presence. To meet the expenditure of BOS it is resolved to apply for advance. Discussion on the preparation of Academic Calendar and Institutional Plan for the academic year 2018-2019, by the Committee constituted by Principal.

Resolutions.

1. It is resolved to conduct Board of Studies (BOS) meeting by all the departments of the college for the academic year 2018-2019. in the month of April 2018
2. In view of conducting BOS it is resolved to submit apply to the office for the advance to meet the expenditure of BOS through the Principal.
3. It is resolved to prepare all the required documents with syllabus, question papers, Blueprint etc. in the Hand Book, Semester wise. with additional inputs
4. It is resolved to take the Approval from BOS for the conduct of Certical courses (3 months), Additional inputs
5. Resolved to prepare Academic calendar & Institutional Plan of 2018-2019 by committee
staff Present:

- | | |
|---------------------|---------------------------------|
| 1. Sujette 12/4/18 | 11. A. Renuka Devi |
| 2. P. S. S. 12/4/18 | 12. K. Chandrasekhar 12/4/18 |
| 3. S. S. 12/4/18 | 13. P. V. Bhuvaneshwari 12/4/18 |
| 4. K. U. S. 12/4/18 | 14. G. Bhanu Prasad 12/4/18 |
| 5. S. S. 12/4/18 | 15. M. S. 12/4/18 |
| 6. A. S. 12/4/18 | 16. M. Subbalakshmi 12/4/18 |
| 7. S. S. 12/4/18 | 17. U. S. 12/4/18 |
| 8. S. S. 12/4/18 | 18. C. S. 12/4/18 |
| 9. N. S. 12/4/18 | 19. S. S. 12/4/18 |
| 10. K. S. 12/4/18 | 20. M. S. 12/4/18 |

Meeting - 1

11-06-2018

The staff meeting was held on 11-06-2018 in the Seminar Hall with Principal Dr. Ratnagiri Usha in chair at 11:30 AM to discuss the following agenda.

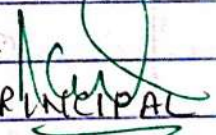
Agenda.

1. Mobilization of the students by the faculty members for students' Assessment report for NAAC review
2. Preparations and submission of Department Profiles
4 Dept. PPTs
3. Maintenance of Dept. Flexi with Results, Activities, strength etc of 5 yrs
4. Preparation of PPTs of the Dept according to VII Criteria of NAAC
5. Preparation of Academic Calendar and Institutional Plan

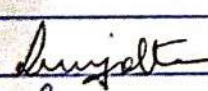
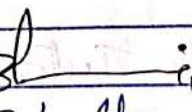
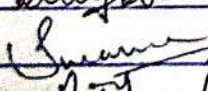
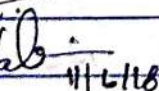
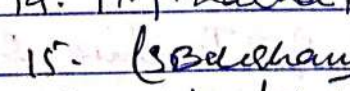
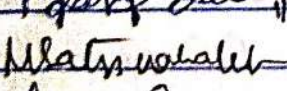
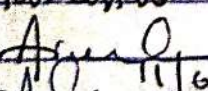
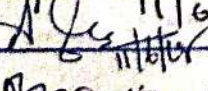
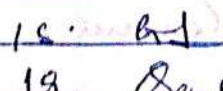
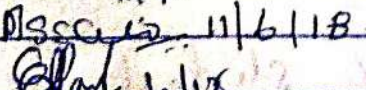
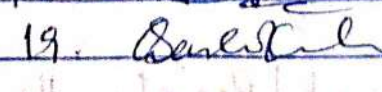
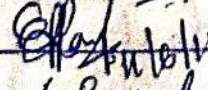
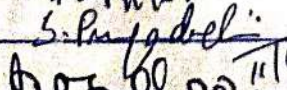
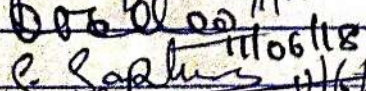
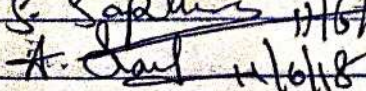

Discussion: In view of NAAC Peer Team Visit to the college in the probable dates given by the college, Principal felt the need to discuss how to gear up for it and to give suggestions and inputs for the effective presentations by all the departments, and to take resolutions on the on the agenda and for the preparation of Academic Calendar and Institutional plan by the Committee constituted for the academic year 2018-2019.

Resolutions:

1. It is resolved to mobilize the students to respond to the mail of NAAC by all the faculty members.
2. It is resolved to be ready with all the displays Profiles, PPTs by all the departments in an excellent manner.
3. It is resolved to maintain a Flexi Flexi with all the data of the results, strengths, activities etc of 5 years.
4. It is resolved to update the Dept PPTs according to the VII Criteria of Assessment.
5. Resolved to prepare Academic Calendar and Institutional Plan by the committee constituted for it for the academic year 2018-2019.


PRINCIPAL

Staff Present:

- | | |
|---|---|
| 1.  11/6/18 | 13. M. B.  11/06/18 |
| 2.  11/6/18 | 14. M. P. Latha 11/06/18 |
| 3. P. Datta  11/6/18 | 15.  11/6/18 |
| 4.  11/6/2018 | 16. P. Satya 11/6/18 |
| 5.  11/6/18 | 17. R. Anand 11/6/18 |
| 6.  11/6/18 | 18.  11/6/18 |
| 7.  11/6/18 | 19.  11/6/18 |
| 8.  11/6/18 | |
| 9.  11/6/18 | |
| 10.  11/06/18 | |
| 11.  11/6/18 | |
| 12.  11/6/18 | |

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

Present: Dr.D.Ratnagiri Usha, M.A.,M.Phil.,Ph.D.

Rc.No:Spl/B2/2018

Dated: 11-04-2018

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 2018-2019

@ @ @

ORDER:

The following members are nominated for the preparation of Academic Calendar and Institutional Plan for the academic year 2018-2019

- | | |
|------------------------|----------------------------------|
| 1. Dr.D.Ratnagiri Usha | Principal |
| 2. Smt.M.Suvarchala | Vice Principal |
| 3. Ms.K.Lavanya | IQAC Coordinator |
| 4. Dr.K.Aruna | Academic Coordinator |
| 5. Dr.K.Yamuna | Asst. Academic Coordinator |
| 6. Ms.G.Sridevi | Controller of Examinations (COE) |



Copy to the Concerned Members
Copy to the Principal's table



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

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

ACADEMIC CALENDER 2018-19

Sl.No.	Particulars	Date
1	College Re-Opening	06-06-2018
2	Commencement of Class Work for I,II&III Year courses (I,III & V Semester)	06-06-2018
3	Orientation Programme for I Semester	08-06-2018 & 09-06-2018
4	Completion of Syllabus for the 1 st Internal Exams	24-07-2018
5	1st Internal Examinations	26-07-2018 to 28-07-2018
6	Completion of Syllabus for 2 nd Internals	07-09-2018
7	2nd Internal Examinations	10-09-2018 to 12-09-2018
8	Last date for submission of attendance particulars of I,III & V Semesters	01-10-2018
9	Last day of Instruction of I,III & V Semesters	06-10-2018
10	I/III/V Semester End Practical Examinations	01-10-2018 to 09-10-2018
11	Dasara Holidays	16-10-2018 to 18-10-2018
12	I/III/V Semester End Examinations	20-10-2018 to 04-11-2018
13	Commencement of Class Work for II/IV/VI Semesters	05-11-2018
14	Christmas Break	24-12-2018 to 26-12-2018
15	Completion of Syllabus for 1 st Internal Examinations	22-12-2019
16	1st Internal Examinations	27-12-2019 to 29-12-2019
17	Sports /Cultural Activities	10-01-2019 & 11-01-2019
18	Pongal Holidays	12-01-2019 to 20-01-2019
19	Commencement of Class Work	21-01-2019
20	Completion of Syllabus for 2 nd Internals	16-02-2019
21	2nd Internal Examinations	18-02-2019 to 20-02-2019
22	Last date for submission of attendance particulars of II,IV & VI Semesters	08-03-2019
23	Last day of Instruction of II,IV & VI Semesters	16-03-2019
24	II/IV/VI Semesters End Examinations	18-03-2019 to 04-04-2019
25	II/IV/VI Semesters Practical Examinations	08-04-2019 to 16-04-2019
26	Summer Vacation	01-05-2019 to 10-06-2019
26	Re-opening day for III & V Semester Students	11-06-2019



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

LIST OF WORKING DAYS/HOLIDAYS FOR UG COURSES FOR THE ACADEMIC YEAR 2018-19

REOPENING: 06-06-2018

Month	2018-19	No.of Holidays	No.of Working days	Total
June,2018	10,17, 24 Sundays 9 Second Saturday 16 Idul Fitr/Ramzan	05	20	25
July, 2018	14 Second Saturday 1,8,15,22,29 Sundays	06	25	31
August, 2018	11 Second Saturday 05,12,19,26 Sundays 15 Independence Day 22 Bakrid	07	24	31
September, 2018	08 Second Saturday 02, 09,16,23, 30 Sundays 03 Srikrishnastami 13 Vinayaka Chavithi 21 Muharram	09	21	30
October, 2018	13 Second Saturday 07,14,21,28 Sundays 02 Gandhi Jayanthi 16-18 Dussehra Holidays	09	22	31
November, 2018	10 Second Saturday 04,11,18,25 Sundays 07 Deepavali 21 Ed Miladun Nabi	07	23	30
December, 2018	08 Second Saturday 02,09,16,23,30 Sundays Christmas Holidays 24.12.2018 to 26.12.2018	09	22	31
January, 2019	12 Second Saturday 06,13,20,27 Sundays Pongal Holidays 12.01.2019 to 20.01.2019 26 Republic Day	12	19	31
February, 2019	09 Second Saturday 03,10,17,24 Sundays	05	23	28
March, 2019	09 Second Saturday 03,10,17,24,31 Sundays 04 Mahasivaratri 21 Holi	08	23	31
April, 2019	13 Second Saturday 06 Ugadi 07,14, 21,28 Sundays 05 Babu Jagjivan Ram Birthday 14 Dr. B R Ambedkar's Jayanti/Sriramanavami	07	23	30
	Total	84	245	329

- Regarding the date(s) of the festivals, the date(s) announced by the State Government of Andhra Pradesh be strictly followed.

A.S.D.Government Degree College for women Autonomous, Kakinada
Department of English - Annual Academic Plan
Semester -I
2018-2019

Month	Paper I- General English ENG 101
JUNE 2018	UNIT-I Introduction to Syllabus and Model Question Paper Prose: The Knowledge Society Grammar: Articles
JULY 2018	UNIT -II Poetry: The Road Not Taken Grammar: Prepositions Short Story: The lost Child
August 2018	UNIT- III Prose: The Language of African Literature Poetry: Night of the Scorpion Grammar: Tenses
September 2018	UNIT- IV Prose: What is my name? One Act Play: The Merchant Of Venice Comprehension Passages
October 2018	UNIT- IV One Act play: Merchant of Venice

Suryate



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

A.S.D.Government Degree College for women Autonomous, Kakinada
Department of English- Annual Academic Plan
Semester –II
2018-2019

Month	Paper-II General English ENG 201
November 2018	I. UNIT Introduction of Syllabus & Model Paper Poetry: Ode to Autumn
December 2018	Unit –I Prose: The Scientific point of view Grammar: Active Voice & Passive Voice Comprehension passage Short Story: The Boy who broke the bank
January 2019	Unit –II Poetry : I am not that woman Grammar : Reported speech
February 2019	Unit- III Prose: On Shaking Hands Short Story : Half A Rupee worth Grammar : Degrees of Comparison
March 2019	Unit- IV One act Play: The marriage Proposal

Signature



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

A.S.D. Government Degree College for women Autonomous, Kakinada
Department of English- Annual Academic Plan
Semester –III
2018-2019

Month	Paper –III General English ENG 301
JUNE 2018	UNIT-I Introduction to Syllabus and Model Question Paper Prose: Shyness My Shield
JULY 2018	UNIT –II Poetry: The Solitary Reaper Grammar: Report Writing Prose: The Interpreter of Maladies
August 2018	UNIT- III Prose: Once Upon A Time Prose: My beloved Charioteer Grammar: Note making & Note Taking Comprehension Passage
September 2018	UNIT- IV Prose: Why people really love technology Grammar: Letter Writing Report writing
October 2018	UNIT- IV One Act play: Kanya Sulakm

Srinivas



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

A.S.D. Government Degree College for women Autonomous, Kakinada
Department of Hindi - Annual Academic
Plan 2018-2019 -Semester -I

Month	General Hindi -HIN103
JUNE 2018	Unit-1-गद्य संदेश (Prose) <ul style="list-style-type: none">• साहित्य की महत्ता• सच्ची वीरता• मित्रता
JULY 2018	UNIT-2-कथा लोक (Short stories) <ul style="list-style-type: none">• मुक्ती धन• गूदड साई• उसने कहा था
August 2018	UNIT-3-व्याकरण (Grammar) <ul style="list-style-type: none">• लिंग• वचन• काल• वाच्य•
September 2018	कार्यालयी हिन्दी <ul style="list-style-type: none">• (पारिभाषिक शब्दावली – अंग्रेजी से हिन्दी)• विलोम शब्द• पत्र लेखन (Letter Writing)
October 2018	व्यक्तिगत और सरकारी पत्र <ul style="list-style-type: none">• वाक्यों की शुद्धि• शब्द प्रायोग

A.S.D. Government Degree College for women Autonomous, Kakinada
Department of Hindi - Annual Academic Plan
2018-2019 -Semester -II

Month	General Hindi -HIN203
November 2018	UNIT-1- गद्य संदेश (Prose) <ul style="list-style-type: none"> • संस्कृति और साहित्य का परस्पर संबंध • भारत एक है • हेच.आई.वी. (AIDS)
December 2018	UNIT-2-कथा लोक (Short stories) <ul style="list-style-type: none"> • जरिया • भूख हड़ताल • परमात्मा का कुत्
January 2019	UNIT-3 <ul style="list-style-type: none"> • कार्यालय हिन्दी (Changing Administrative Terminology Hindi to English and English to Hindi)
February 2019	UNIT-4 व्याकरण (Grammar) <ul style="list-style-type: none"> • अपने वाक्यों में शब्द पयोग कार्यालयी हिन्दी (हिन्दी से अंगेजी) • संधि विच्छेद
March 2019	UNIT-5 पत्र लेखन (Letter writing) आवेदन पत्र

A.S.D. Government Degree College for women Autonomous, Kakinada
Department of Hindi - Annual Academic Plan
2018-2019 -Semester -III

Month	
JUNE 2018	General Hindi -HIN203 १. काव्यदीप (Ancient and Modern Poetry) <ul style="list-style-type: none">• कबीरदास - साखी -१-१०• सूरदास का बाल वर्णन• मातृ भूमि• तोड़ती पत्थर• गीत फरोश
JULY 2018	२. हिन्दी साहित्य का इतिहास (Histroy of Hindi Literature) <ul style="list-style-type: none">• भक्तिकाल• ज्ञानाश्रयी शाखा - कबीर• प्रेमाश्रयी शाखा - जायसी
August 2018	३. साधारण निबन्ध (General Essays) <ul style="list-style-type: none">• समाचार पत्र,• बेकारी की समस्या,• कम्प्यूटर,• पर्यावरण और प्रदूषण,
September 2018	4. अनुवाद (Translation) <ul style="list-style-type: none">• अनुवाद अभ्यास - अंग्रेजी से हिन्दी (Four or Five lines)
October 2018	<ul style="list-style-type: none">• वाक्यों की शुद्धि• शब्द प्रायोग

Incharge's Signature



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

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

ACADEMIC PLAN 2018-2019

SEMESTER - I

1: POETRY, PROSE, & GRAMMAR.

Paper code:1610102

Month	Name of the Topic
June 2018	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 2018	धातवः(Conjugations) 1. दृशिर् (Drushir) 2. लभ् (Labh) 3. मुद् (Mud) 2. आतिथ्यम् -Aatithyam (Bhaagavatam 9th Skandha 21" Adhyaaya 2-18 Slokas)
August 2018	1. Unnathi from Bharatee Bhushanam by Dr.D.N.Deekhit Page No 66-68. 2. विविक्तपुष्पकरण्डः 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 2018	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 2018-2019
SEMESTER - II :POETRY, PROSE,&GRAMMAR
Paper code:1620102

Month	Name of the Topic
November 2018	UNIT-1 OLD POETRY वसिष्ठाश्रमगमनमधुवंशमहाकाव्येप्रथमसर्गे 35 श्लोकतः 73 श्लोकपर्यन्तम् Raghuvamsa-1 Canto 35-73 Slokas
December 2018	UNIT-II 1. गङ्गावतरणम् - भोजरजेनलिखितचम्पूरामायणम्- बालकाण्डा Gangaavataranam Bhoja's Champu Ramayanam-Balakanda 1. अजन्तशब्दाः (Declensions) Nouns Ending in Vowels: नदी (Nadi), तनु (Tanu), वधू (Vadhu), मातृ (Martu), गद्दयभागः (PROSE) UNIT-III 1. पुष्पोद्भवचरितम्-दशकुमारचरितम्पूर्वपीठिकाचतुर्थ अध्यायः Dasakumara Charitam- Poorva Peethika 4th Chapter.
January 2019	2. कृषिफलम्-ओगेटिपरीक्षितशर्मविरचितकालायतस्मैनामः -20 अध्यायः पु. सं. (273-277) Kaalaaya Tasmai Namah 20h Chapter Written by Ogeti Parikshit Sarma Page 273-277. UNIT-V 1. सन्धयः SANDHISहल्सन्धि :- लत्वसन्धि (Latva), जस्त्वसन्धि (Jastva), विसर्गसन्धि (Visarga) (उत्व, विसर्गलोप, रेफादेश, ऊष्म) 2. समासाः SAMAASAS अव्ययीभाव (Avyayibhavaa), बहुव्रीहि (Bahuvrihi)
February 2019	UNIT-IV 2. समासाः SAMAASAS

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

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ACADEMIC PLAN 2018-2019

SEMESTER – III

(Drama, Upanishad, Alamkara, Particles & Sabdas.

Paper code:1630102

Month	Name of the Topic
June 2018	OLD DRAMA - UNIT-1 1. दूतवाक्यम् one act Play by Bhasa. UNIT-II MODERN DRAMA 1. अशनिनिरासम् By Kavisamrat Viswanatha Satyanarayana, Pub.in. 1954.
July 2018	UPANISHAD UNIT-III 1. शिष्यानुशासनम् -शिक्षावल्ली- Sikshavalli of Taittiriyaopanishat ALANKARAS UNIT-IV 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
August 2018	3. शास्त्रकार विभागः (Additional Syllabus) 1. पाणिनिः 2. कौटिल्यः 3. भारवि 4. भवभूतिः 2. सर्वनामशब्दाः :- अस्मद्, युष्मद् 3. शास्त्रकार विभागः (Additional Syllabus)
September 2018	शास्त्रकार विभागः (Additional Syllabus) पाणिनिः 2. कौटिल्यः कृत्प्रत्ययाः UNIT-V 1. कृत्प्रत्ययाः 1. कृत्वा, 2. ल्यप् 3. तुमुन् 4. तव्य



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ACADEMIC PLAN 2018-19
I SEMESTER GENERAL & SPECIAL TELUGU

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

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ACADEMIC PLAN 2018-19
II SEMESTER GENERAL & SPECIAL TELUGU

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

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ACADEMIC PLAN 2018-19
III SEMESTER GENERAL & SPECIAL TELUGU

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

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ACADEMIC PLAN 2018-19
IV SEMESTER SPECIAL TELUGU-AADHUNIKA TELUGU SAHITYA CHARITRA**

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

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V SEMESTER SPECIAL TELUGU**

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

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

MONTH	JANAPADA SAHITYAM	CLUSTER-I JOURNALISM	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 BHEDALU	ANUVADAM, ANUVADAM- RAKALU
JANUARY	JANAPADA GEYALU- LAKSHANALU	EDITOR- SUB EDITOR	TELUGU VAKYA NIRMANAM	ANUVADA SAMASYALU
FEBRUARY	JANAPADA ROOPAKALU	NEWS FEATURES	TELUGU VAKYA NIRMANAM	ADHIKARA BHASHAGA TELUGU
MARCH	JANAPADA SANGEETHAKARULU	TELUGU PATRIKALA CHARITRA	TELUGU BHASHA ADHUNIKARANA	ADHIKARA BHASHAGA TELUGU



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DEPARTMENT OF MATHEMATICS
B.Sc.(M.P.C&M.P.Cs) ACADEMIC PLAN 2018-2019
SEMESTER - I
PAPER – I- Differential Equations

MONTH	NAME OF THE TOPIC
JUNE 2018	Differential Equations of first order and first degree
JULY 2018	Differential Equations of first order but not first degree Equations solvable for p,y,x.Clairaut,s Equation
AUGUST 2018	Higher order linear differential equation-I Solution of homogeneous & non homogeneous Equations
SEPTEMBER 2018	Higher order linear differential equation-II Solution of non homogeneous equations with constant coefficients
OCTOBER 2018	Higher order linear differential equation-III Method of variation of parameters

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SEMESTER – III
PAPER- III- ABSTRACT ALGEBRA

MONTH	NAME OF THE TOPIC
JUNE 2018	Introduction to Binary Operation and Group definition
JULY 2018	Sub groups –Complex definition ,theorems Product, union, Intersection of two subgroups , co-sets Lagrange's theorem
AUGUST 2018	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 2018	Definition of homomorphism –properties of homomorphism-isomorphism Kernel of a homomorphism-fundamental theorem on homomorphism and permutations
OCTOBER 2018	Definition of permutation ,even and odd permutation Cayley's theorem

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

MONTH	NAME OF THE TOPIC
JUNE 2018	Definition of ring , Field and basic properties
JULY 2018	Fundamental theorem ,maximal ideals, and prime ideals
AUGUST 2018	Vector definition ,Gradient, Divergence ,Curl operators
	Problems solving on this operators
SEPTEMBER 2018	Line and surface integrals problems
	Volume integral problems
OCTOBER 2018	Gauss,stokes and Green's theorems & problems

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SEMESTER - V
PAPER-VI- LINEAR ALGEBRA

MONTH	NAME OF THE TOPIC
JUNE 2018	Vector space definitions Linear span ,linear independent, dependent of vectors
JULY 2018	Basis of vectors ,basis of extension theorems
	Dimension of a vector space , Dimension of a subspace
AUGUST 2018	Linear transformations ,Properties
	Rank and Nullity of linear transformations
SEPTEMBER 2018	Matrices ,Inverse Matrices ,Rank of Matrices
	Characteristic values and vectors Cayley Hamilton theorem
OCTOBER 2018	Inner product space orthonormal set , Gram-schmidt orthogonalisation process

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B.Sc ACADEMIC PLAN 2018-2019
SEMESTER - II Paper II
THREE DIMENSIONAL ANALYTICAL SOLID GEOMETRY

MONTH	NAME OF THE TOPIC
NOVEMBER 2018	Equation of plane through the given points, bisectors of angles between two planes, orthogonal projection on plane
DECEMBER 2018	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 2019	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 2019	Definition of sphere and cone, enveloping cone Reciprocal of a cone

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DEPARTMENT OF MATHEMATICS
B.Sc ACADEMIC PLAN 2018-2019
SEMESTER - IV
Paper IV
REAL ANALYSIS

MONTH	NAME OF THE TOPIC
NOVEMBER 2018	Introduction of real numbers Monotone sequence Cauchy, general principle of convergence theorem
DECEMBER 2018	Cauchy, general principle of convergence for series tests
	P-test, Cauchy, root test, D-Alembert's test
JANUARY 2019	Boundedness of a function, Limits of a function
	Infinite limits problems
FEBRUARY 2019	Differentiation and mean value theorems
	Riemann integration

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SEMESTER – VI
PAPER- VIB-NUMERICAL ANALYSIS

MONTH	NAME OF THE TOPIC
NOVEMBER 2018	Errors and their analysis, General error formula
DECEMBER 2018	Bisection , iteration, Newton-Raphson methods
	Generalized Newton Raphson method, Muller's method
JANUARY 2019	Forward , Backward , central tables problems
	Symbolic relations problems
FEBRUARY 2019	Gauss's , Stirling,s formulas
MARCH 2019	Error in lagrange,s interpolation formula

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SEMESTER - VI Paper -VIB1
ADVANCED NUMERICAL ANALYSIS

MONTH	NAME OF THE TOPIC
NOVEMBER 2018	Fitting of a straight line problems
DECEMBER 2018	Derivatives using Newtons Forward ,Backward
JANUARY 2019	General quadrature formula ,Trapezoidal rule
	Simpson's 1/3 and 3/8 rules
FEBRUARY 2019	Gauss Jordan , elimination ,siedel method
MARCH 2019	Taylor,s series , Picards method ,Runge – Kutta methods

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SEMESTER - VI Paper VI B2
SPECIAL FUNCTINS

MONTH	NAME OF THE TOPIC
NOVEMBER 2018	Hermite polynomial
DECEMBER 2018	Laguerre polynomials
JANUARY 2019	Legender's Equation
	Recurrence formula for Legender's Equation
FEBRUARY 2019	Bessel's equation
MARCH 2019	Beta & Gamma functions



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DEPARTMENT OF PHYSICS

ACADEMIC PLAN 2018-19

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 2018	Unit-1 & unit-2 Vector analysis & Mechanics of particles
2	JULY 2018	Unit-3 Mechanics of rigid bodies and Mechanics of continuous media
3	AUGUST 2018	Unit-4 Central forces
4	SEPTEMBER 2018	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 2018	Unit-1 Simple harmonic oscillations
2	DECEMBER 2018	Unit-2 Damped and forced oscillations
3	JANAUARY 2019	Unit-3 & Unit-4 Complex vibrations Vibrating strings
4	FERRUARY 2019	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 2018	Unit-1 & unit-2 Aberrations & Interference
2	JULY 2018	Unit-2 Interference
3	AUGUST 2018	Unit-3 & unit-4 Diffraction & Polarisation
4	SEPTEMBER 2018	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 2018	Unit-1 & Unit-2 Kinetic theory of Gases and Thermodynamics
2	DECEMBER 2018	Unit-2 & unit-3 Thermodynamics Thermodynamic potentials
3	JANAUARY 2019	Unit-3 & Unit-4 Complex vibrations Vibrating strings
4	FERRUARY 2019	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 2018	Unit-1 Electric field intensity and potential Dielectrics
2	JULY 2018	Unit-2 Electric and Magnetic fields Electromagnetic induction
3	AUGUST 2018	Unit-3 Alternating currents and Electromagnetic waves Maxwell's equations
4	SEPTEMBER 2018	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 2018	Unit-1 & Unit-2 Atomic and Molecular Physics Matter waves & Uncertainty principle
2	JULY 2018	unit-3 Quantum(wave) mechanics
3	AUGUST 2018	Unit-4 General properties of Nuclei Radioactive Decay
4	SEPTEMBER 2018	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 2018	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 2018	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 2019	Unit-3 Solar energy Wind Energy	Unit-4 Solar PV Systems	Unit-4 Small Hydropower Systems	Unit-4 Fuel cell
February 2019	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

K. Venkatesh



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ACADEMIC PLAN 2018-19

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

Month	Inorganic Chemistry	Organic Chemistry
June 2018	Unit-I P-Block Elements	Unit-III Structural Theory in Organic Chemistry
July 2018	Unit-II P-Block Elements	Unit-IV Acyclic Hydrocarbons & Alicyclic Hydrocarbons
August 2018	Unit-II Organometallic Chemistry	Unit-V Benzene and its Reactivity
September 2018	Unit-II Organometallic Chemistry	Unit-V Benzene and its Reactivity

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

Month	Organic Chemistry	General Chemistry
November 2018	Unit-I Solid State	Unit-IV Colloids & Surface Chemistry
December 2018	Unit-II Gaseous State	Unit-IV Chemical Bonding
January 2019	Unit-II Liquid State	Unit-V Stereo Chemistry of Carbon Compounds
February 2019	Unit-III Solutions	Unit-V Stereo Chemistry of Carbon Compounds

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

Month	Inorganic Chemistry	Organic Chemistry
June 2018	Unit-I Chemistry of D-Block Elements	Unit-III Halogen Compounds
July 2018	Theories of Bonding in metals	Unit-III Hydroxy Compounds
August 2018	Unit-II Metals Carbonyls & Related Compounds	Unit-IV Carbonyl Compounds
September 2018	Unit-II Chemistry of f-block elements	Unit-V Carboxylic Acids & their Derivatives

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

Month	Spectroscopy	Physical Chemistry
November 2018	Spectrophotometry	Dilute Solutions
December 2018	Molecular Symmetry	Electrochemistry-I
January 2019	Infrared Spectroscopy	Electrochemistry-II
February 2019	Proton Magnetic Resonance Spectroscopy	Phase Rule

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

Month	Inorganic Chemistry	Organic & Physical Chemistry
June 2018	Coordination Chemistry	Nitro Hydro Compounds
July 2018	Coordination Chemistry	Nitrogen Compounds
August 2018	Hard & Soft Acids	Thermodynamics
September 2018	Stability of Metal Complexes	Thermodynamics

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

Month	Inorganic & Physical Chemistry	Organic Chemistry
June 2018	Reactivity of Metal Complexes	Heterocyclic Compounds
July 2018	Bioinorganic Chemistry	Carbohydrates
August 2018	Chemical Kinetics	Carbohydrates
September 2018	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 2018	Introduction Air Pollution	Introduction of Polymers	Introduction to Spectroscopic methods of analysis	Analysis of the Analgesic, Anti Pyretics & Anti Histamine Drugs
December 2018	Water Pollution	Techniques of Polymerisation	Molecular Spectroscopy	Analysis of Anti Epileptic & Anti Convulsant Drugs
January 2019	Chemical Toxicology	Kinetics of free Radical Polymerisation	UV-Visible , Near IR Spectroscopy	Analysis of Milk & Milk Products
February 2019	Ecosystem & Biodiversity	Polymer Additives and their Applications	Separation Techniques Elemental Analysis	Clinical Analysis of Blood



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DEPARTMENT OF COMPUTER SCIENCE
B.Sc.(M.P.Cs)
ACADEMIC PLAN 2018-2019
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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ACADEMIC PLAN 2018-2019
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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ACADEMIC PLAN 2018-2019
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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DEPARTMENT OF COMPUTER SCIENCE
B.Sc.(M.P.Cs)
ACADEMIC PLAN 2018-2019
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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B.Sc.(M.P.Cs)
ACADEMIC PLAN 2018-2019
SEMESTER - V (Paper V- DATABASE MANAGEMENT SYSTEMS)

Month	Name of the Topic
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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ACADEMIC PLAN 2018-2019
SEMESTER – V (Paper VI- Software Engineering)

Month	Name of the Topic
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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B.Sc.(M.P.Cs)
ACADEMIC PLAN 2018-2019
SEMESTER - IV (Elective Paper VIIC - WEB TECHNOLOGIES)

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

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ACADEMIC PLAN 2018-2019
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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B.Sc.(M.P.Cs)
ACADEMIC PLAN 2018-2019
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 2018-2019
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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B.Sc.(M.P.Cs)
ACADEMIC PLAN 2018-2019
SEMESTER - II (ENTERPRISE RESOURCE PLANNING)

Month	Name of the Topic
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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DEPARTMENT OF COMPUTER SCIENCE
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ACADEMIC PLAN 2018-2019
SEMESTER – III (OFFICE AUTOMATION TOOLS)

Month	Name of the Topic
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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DEPARTMENT OF COMPUTER SCIENCE
B.Com(CA)
ACADEMIC PLAN 2018-2019
SEMESTER - IV (Programming in C)

Month	Name of the Topic
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 2018-2019
SEMESTER - V (Programming in C)

Month	Name of the Topic
JUNE	Introduction to Algorithms and Flowcharts
JULY	Introduction to Programming Languages
AUGUST	Decision control and Looping Statements
	Functions in C
SEPTEMBER	Arrays in C
	Strings in C
OCTOBER	Pointers In C
	Structures and Unions

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DEPARTMENT OF COMPUTER SCIENCE
B.Com(CA)
ACADEMIC PLAN 2018-2019
SEMESTER - V (DATABASE MANAGEMENT SYSTEMS)

Month	Name of the Topic
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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ACADEMIC PLAN 2018-2019
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 2018-2019
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)

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DEPARTMENT OF BOTANY

ANNUAL ACADEMIC PLAN 2018-2019

I B.Sc., I SEMESTER

BOTANY PAPER-I : MICROBIAL DIVERSITY, ALGAE AND FUNGI

MONTH	TOPIC
JULY	Microbial World : Origin and Evolution of life, Microbial Diversity Viruses : General Characters , replications, plant diseases caused by viruses, study of TMV, Bhendi Vein clearing and Papaya leaf curl diseases
AUGUST	Bacteria :General Characters, Structure, Reproduction and Economic importance. Algae : 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	Fungi : 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	BRYOPHYTES : General characters, Classification Structure, reproduction and Life history of <i>Marchantia</i> , and <i>Funaria</i> . Evolution of Sporophyte in Bryophytes.
DECEMBER	Pteridophytes : General Characters, Classification. Structure and life history of Lycopodium and Marsilea. Heterospory and seed habit, Evolution of steel Gymnosperms : General Characters, Classification, Life history of Pinus and Gnetum –Economic importance
JANUARY	Tissues And Tissue Systems : Meristems , Tissues, Tissue Systems
FEBRUARY	Secondary Growth : Anomalous secondary growth in Achyranthes, Boerhaavia and Dracaena Local Timbers : Teak, Rosewood, Red sanders and Arjun
MARCH	Semester End Examinations

II B.Sc., III SEMESTER

BOTANY PAPER-III : PLANT TAXONOMY AND EMBRYOLOGY

MONTH	TOPIC
JUNE	Introduction To Plant Taxonomy, ICBN
JULY	Classification – Types of classification ,Bentham and Hooker's System, Engler and Prantle's sysem, Systematic Taxonomy I : Annonaceae, Fabaceae, Rutaceae, Cucurbitaceae, and Apiaceae.
AUGUST	Systematic Taxonomy II :Asteraceae, Asclepiadaceae, Lamiaceae, Euphorbiaceae ,Orchidaceae and Poaceae Embryology : Microsporogenesis
SEPTEMBER	Embryology : 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

MONTH	TOPIC
NOVEMBER	Water Relations :Diffusion, imbibitions, osmosis, Ascent of sap Transpiration
DECEMBER	Mineral Nutrition and Enzymes : 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	Cell Biology : Cell, the unit of life Ultra structure and functions of cell wall and cell membranes. Chromosomes
JULY	Genetic material : DNA as the genetic material DNA structure and replication of DNA (semi-conservative) Types of RNA and their structure and functions
AUGUST	Mendelian inheritance Mendel's Laws of inheritance, Chromosome theory of inheritance, Linkage, Crossing Over
SEPTEMBER	Plant Breeding Introduction and Objectives of Plant breeding. Methods of crop improvement Breeding, Crop Improvement and Biotechnology 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
		PAPER –VIII A2 ETHNO BOTANY AND MEDICINAL BOTANY BOTANY–CLUSTER ELECTIVE- A2
	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)
DEPARTMENT OF ZOOLOGY & AQUACULTURE TECHNOLOGY
ZOOLOGY ACADEMIC PLAN 2018-19
SEMESTER-I PAPER-I (ANIMAL DIVERSITY – NONCHORDATES)

MONTH	TOPIC COVERED
June'18	<p>UNIT I : Brief history, Significance of Diversity of Non Chordates</p> <p>Protozoa</p> <p>1.2.1 General characters</p> <p>1.2.2 Classification of Protozoa up to classes with examples</p> <p>1.2.3 Elphidium (type study)</p> <p>Porifera</p> <p>1.3.1 General characters</p> <p>1.3.2 Classification of Porifera up to classes with examples,</p> <p>1.3.3 Sycon – External Characters, Types of cells,</p> <p>1.3.4 Skelton in Sponges 1.3.5 Canal system in sponges</p>
July'18	<p>UNIT II : Coelenterata & Platyhelminthes</p> <p>2.1.1 General characters</p> <p>2.1.2 Classification of Coelenterata up to classes with examples</p> <p>2.1.3 Obelia - External Characters, Structure of Polyp and Medusa</p> <p>2.1.4 Polymorphism in coelenterates</p> <p>2.1.5 Corals and coral reef formation</p> <p>2.2 Platyhelminthes</p> <p>2.1.1 General characters</p> <p>2.1.2 Classification of Platyhelminthes upto classes with examples</p> <p>2.1.3 Fasciola hepatica - External Characters, Excretory system, Reproductive System, Life History and pathogenicit</p>
August'18	<p>UNIT III: Nematelminthes & Annelida</p> <p>3.1.1 General characters</p> <p>3.1.2 Classification of Nematelminthes up to classes with examples</p> <p>3.2 Annelida</p> <p>3.2.1 General characters</p> <p>3.2.2 Classification of Annelida up to classes with examples</p> <p>3.2.3 Hirudinaria granulosa - External Characters, Digestive System, Excretory System and Reproductive System</p> <p>3.2.4 Coelomoducts</p> <p>3.2.5 Vermiculture - Scope, significance, earthworm species, processing, Vermicompost, economic importance of vermicompost</p>
September'18	<p>UNIT IV : Arthropoda & Mollusca</p> <p>4.1.1 General characters</p>

	<p>4.1.2 Classification of Arthropoda up to classes with examples</p> <p>4.1.3 Prawn - External Characters, Appendages, Respiratory system and Circulatory System</p> <p>4.1.4 Peripatus - Structure and affinities</p> <p>4.2 Mollusca</p> <p>4.2.1 General characters 4.2.2 Classification of Mollusca up to classes with examples</p> <p>4.2.3 Pearl formation in Pelecypoda</p> <p>4.2.4 Torsion in gastropods</p>
October'18	<p>UNIT V: Echinodermata, Hemichordata & Non-Chordata larval forms</p> <p>5.1.1 General characters</p> <p>5.1.2 Classification of Echinodermata up to classes with examples</p> <p>5.1.3 Water vascular system in star fish</p> <p>5.2 Hemichordata</p> <p>5.2.1 General characters</p> <p>5.2.2 Classification of Hemichordata up to classes with examples</p> <p>5.2.3 Balanoglossus - Structure and affinities</p> <p>5.3 Non-Chordata larval forms</p> <p>5.3.1 Amphiblastula</p> <p>5.3.2 Ephyra</p> <p>5.3.3 Trochophore</p> <p>5.3.4 Nauplius</p> <p>5.3.5 Glochidium</p> <p>5.3.6 Bipinnaria</p> <p>5.3.7 Tornaria</p>

Waltz

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

MONTH	TOPIC COVERED
November'18	UNIT I : General characters of Chordata 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
December'18	UNIT II : Cyclostomata & pisces Cyclostomata 2.1.1 General characters of Cyclostomata 2.1.2 Comparison of the Petromyzon and Myxine Pisces .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
January'18	UNIT III : Amphibians & reptiles Amphibia 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 Reptilia .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
February'18	UNIT IV : Aves 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
March'18	UNIT -V : Mammalia 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)

MONTH	TOPIC COVERED
June'18	UNIT I : Cytology - I 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.
July'18	UNIT II : Cell organelles 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
August'18	UNIT III : Genetics - I 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
September'18	UNIT IV : Genetics - II 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
October'18	UNIT V : Evolution 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)

MONTH	TOPIC COVERED
November'18	<p>UNIT-I Developmental biology & embryology</p> <p>1.1.1 Gametogenesis 1.1.2 Fertilization 1.1.3 Types of eggs 1.1.4 Types of cleavages</p> <p>1.2 Development of Frog upto formation of primary germ layers</p> <p>1.3 Formation and functions of Foetal membrane in chick embryo 1.4 Development, types and functions of Placenta in mammals</p>
December'18	<p>UNIT-II Physiology –I</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>
January'19	<p>UNIT-III Physiology – II</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>
February'19	<p>UNIT-IV Ecology - I</p> <p>4.1.1 Meaning and scope of Ecology 4.1.2 Important abiotic factors of Ecosystem - Temperature, light, water, oxygen and CO₂ 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>
March'19	<p>Ecology –II & Zoogeography Ecology - II</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>5.2 Zoogeography</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)

MONTH	TOPIC COVERED
June'18	<p>Unit-II: Tools of Recombinant DNA technology - Enzymes and Vectors Restriction modification systems: Types I, II and III. Mode of action, nomenclature, applications of Type II restriction enzymes in genetic engineering DNA modifying enzymes and their applications: DNA polymerases. Terminal deoxynucleotidyl transferase, kinases and phosphatases, and DNA ligases Cloning Vectors: Plasmid vectors:pBR and pUC series, Bacteriophage lambda and M13 based vectors, Cosmids, BACs, YACs,</p>
July'18	<p>Unit -II Techniques of Recombinant DNA technology Cloning: Use of linkers and adaptors Gene delivery: Microinjection, electroporation, biolistic method (gene gun), liposome and viralmediated delivery PCR: Basics of PCR. DNA Sequencing: Sanger's method of DNA sequencing- traditional and automated sequencing Hybridization techniques: Southern, Northern and Western blotting, Genomic and cDNA libraries: Preparation and uses</p>
August'18	<p>UNIT -III Animal Cell Technology Cell culture media: Natural and Synthetic Cell cultures: 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. Hybridoma Technology: Cell fusion, Production of Monoclonal antibodies (mAb), Applications of mAb Stem cells: Types of stem cells, applications</p>
September'18	<p>Unit -IV Reproductive Technologies & Transgenic Animals Manipulation of reproduction in animals: Artificial Insemination, In vitro fertilization , super ovulation, Embryo transfer, Embryo cloning Transgenic Animals: Strategies of Gene transfer; Transgenic - sheep, - fish; applications</p>
October'18	<p>Unit -V Applied Biotechnology Industry: Fermentation: Different types of Fermentation: Short notes on - Submerged & Solid state; batch, Fed batch & Continuous; Stirred tank, Air Lift, Fixed Bed and Fluidized; Downstream processing - Filtration, centrifugation, extraction, chromatography, spray drying and lyophilization Agriculture: fisheries – monoculture in fishes, polyploidy in fishes; DNA fingerprinting</p>



SEMESTER-V PAPER-VI (ANIMAL HUSBANDARY)

MONTH	TOPIC COVERED
June'18	UNIT - I : Introduction to poultry farming General introduction to poultry farming. Principles of poultry housing. Poultry houses. Systems of poultry farming. Management of chicks, growers and layers. Management of Broilers.
July'18	UNIT -II: Poultry feed management – 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.
August'18	UNIT -III: Selection, care and handling of hatching eggs. Egg testing. Methods of hatching. Brooding and rearing. Sexing of chicks.
September'18	UNIT - IV: Breeds of Dairy Cattle and Buffaloes – 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.
October'18	UNIT - V: Care and management of dairy animals – are and management of calf, heifer, milk animal, dry and pregnant animal, bulls and bullocks.

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VI SEMESTER PAPER-ELECTIVE VII (A) (CELLULAR METABOLISM AND MOLECULAR BIOLOGY)

MONTH	TOPIC COVERED
November'18	<p>UNIT- I : Biomolecules</p> <p>1.1 Carbohydrates - Classification of carbohydrates. Structure of glucose</p> <p>1.2 Proteins - Classification of proteins. General properties of amino acids</p> <p>1.3 Lipids - Classification of lipids</p> <p>1.4 Nucleic acids - DNA – Structure and function; RNA - Structure, types and functions</p>
Decembert'18	<p>UNIT- II : Enzymes and Cellular Metabolism</p> <p>2.1. Introduction to biocatalysis, Enzymes and their classification, Enzymekinetics. Mechanism of action. Inhibition and Regulation</p> <p>2.2 Carbohydrate Metabolism - Glycolysis, Krebs Cycle, Gluconeogenesis,</p> <p>2.3 Glycogen metabolism, Review of electron transport chain</p>
January'19	<p>UNIT -III : Cellular Metabolism and Cell Physiology</p> <p>3.1 Lipid Metabolism - Biosynthesis and β oxidation of palmitic acid</p> <p>3.2 Protein metabolism - Transamination, Deamination and Urea Cycle</p> <p>3.3 Transport functions of plasma membrane – Active, passive and facilitated transport</p> <p>3.4 Cell junctions – Tight junctions, desmosomes, gap junctions</p>
February'19	<p>UNIT -IV :</p> <p>4.1 DNA structure, types (A,B,Z); DNA as genetic material (Griffith's Transformation, Hershey Chase experiment, McKarthy experiment)</p> <p>4.2 Fine structure of gene</p>
March'19	<p>UNIT -V : :Gene Expression</p> <p>5.1 Gene Expression in prokaryotes (Lac Operon)</p> <p>5.2 Gene Expression in eukaryotes.</p> <p>5.3 Transcription and Translation</p>



VI SEMESTER PAPER- B1 (PRINCIPLES OF AQUACULTURE)

MONTH	TOPIC COVERED
November'18	<p>UNIT- I Introduction / Basics of Aquaculture</p> <p>1.1.1 Definition, Significance and History of Aquaculture 1.1.2 Present status of Aquaculture – Global and National scenario 1.1.3 Major cultivable species for aquaculture: freshwater, brackish water and marine. 1.1.4 Criteria for the selection of species for culture</p>
Decembert'18	<p>UNIT -II : Types of Aquaculture</p> <p>2.1.1 Freshwater, Brackishwater and Marine 2.1.2 Concept of Monoculture, Polyculture, Composite culture, Monosex culture and Integrated fish farming</p> <p>2.2 Culture systems</p> <p>2.2.1 Ponds, Raceways, Cages, Pens, Rafts and water recirculating systems</p> <p>2.3 Culture practices</p> <p>2.3.1 Traditional, extensive, modified extensive, semi-intensive and intensive cultures of fish and shrimp.</p>
January'19	<p>UNIT- III :</p> <p>3.1 Design and construction of aquafarms</p> <p>3.1.1 Criteria for the selection of site for freshwater and brackish water pond farms 3.1.2 Design and construction of fish and shrimp farms</p> <p>3.2 Seed resources</p> <p>3.2.1 Natural seed resources and Procurement of seed for stocking: Carp and shrimp</p> <p>3.3 Nutrition and feeds</p> <p>3.3.1 Nutritional requirements of a cultivable fish and shellfish 3.3.2 Natural food and Artificial feeds and their importance in fish and shrimp culture</p>
February'19	<p>UNIT -IV :</p> <p>4.1 Management of carp culture ponds</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>4.2 Culture of giant freshwater prawn, Macrobrachium rosenbergii</p>
March'19	<p>UNIT- V :</p> <p>5.1 Culture of shrimp (Penaeus monodon or Litopenaeus vannamei) 5.2 Culture of pearl oysters 5.3 Culture of seaweeds-species cultured, culture techniques, important by-products, prospects 5.4 Culture of ornamental fishes – Setting up and maintenance of aquarium; and breeding.</p>

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VI SEMESTER PAPER-B2 (AQUACULTURE MANAGEMENT)

MONTH	TOPIC COVERED
November'18	<p>UNIT- I 1.1 Breeding and Hatchery Management 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'18	<p>UNIT –II 2.1 Water quality Management 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'19	<p>UNIT- III: 3.1 Feed Management 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'19	<p>UNIT -IV: 4.1 Disease Management 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'19	<p>UNIT- V : 5.1 Economics and Marketing 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 5.2 Fisheries Extension 5.1.3 Fisheries Training and Education in India; Role of extension in community development. 5.3 Fish Genetics 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

VI SEMESTER PAPER-B3 (POSTHARVEST TECHNOLOGY)

MONTH	TOPIC COVERED
November'18	UNIT- I: 1.1 Handling and Principles of fish Preservation 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.
Decembert'18	UNIT -II: Methods of fish Preservation 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).
January'19	UNIT- III: 3.1 Processing and preservation of fish and fish by-products 3.1.1 Fish 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. 3.2 Seaweed Products 3.2.1 Preparation of agar, algin and carrageen. Use of seaweeds as food for humanconsumption, in diseasetreatment and preparation of therapeutic drugs.
February'19	UNIT -IV: 4.1 Sanitation and Quality control 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
March'19	UNIT- V: 5.1 Quality Assurance, Management and Certification 5.1.1 Seafood 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.




Signature of the Lecturer in Charge



Signature of the Principal

ASD GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

DEPARTMENT OF ZOOLOGY & AQUACULTURE TECHNOLOGY

AQUACULTURE TECHNOLOGY ACADEMIC PLAN 2018-2019

ISEMESTER-I PAPER-I (BASIC PRINCIPLES OF AQUACULTURE)

MONTH	TOPIC COVERED
June'18	UNIT- I: INTRODUCTION: 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'18	UNIT II: POND ECOSYSTEM 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'18	UNIT III: TYPES OF FISH PONDS 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'18	UNIT IV: POND PREPARATION 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'18	UNIT V: POND MANAGEMENT FACTORS 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 ₂ 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. Venuchandhi

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

MONTH	TOPIC COVERED
November'18	UNIT I: General Characters & Classification of Cultivable Fin & Shell Fish: 1.1 General Characters and classification of fishes, crustaceans and molluscs up to the level of Class. 1.2 Fish, Crustaceans and Molluscs of commercial importance. 1.3 Sense organs of fishes, crustaceans and molluscs. 1.4 Buoyancy in fishes- swim bladder and mechanism of gas secretion.
Decembert'18	UNIT II: Food, Feeding and Growth: 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. 2.2 Principles of Age and growth determination; growth regulation, Growth rate measurement – scale method, otolith method, skeletal parts as age indicators. 2.3 Genetic, biotic & 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. 2.4 Length-weight relationship, condition factor/Ponderal index, relative condition factor.
January'19	UNIT III: Reproductive Biology: 3.1 Breeding in fishes, breeding places, breeding habits & places. 3.2 Breeding in natural environment and in artificial ponds, courtship and reproductive cycles. 3.3 Induced breeding in fishes. 3-4 Breeding in shrimp, pearl oyster, pila, and cephalopods.
February'19	UNIT IV: Development: 4.1 Parental care in fishes, ovo-viviparity, oviparity, viviparity, nest building and brooding. 4.2 Embryonic and larval development of fishes. 4.3 Embryonic and larval development of shrimp, crabs and molluscs of commercial importance. 4.4 Environmental factors affecting reproduction and development of cultivable aquatic fin & shell fish.
March'19	UNIT V: Hormones & Growth 5.1 Endocrine system in fishes. 5.2 Neurosecretary cells, androgenic gland, ovary. 5.3 Y-organ, chromatophores, pericardial glands and cuticle. 5.4 Molting, molting stages, metamorphosis in crustacean shell fish.

N. Indira

H. Suvarchale

A.S D. GOVT. DEGREE COLLEGE (I)
 AUTONOMOUS
 KAKINADA

A.S.D GOVERNMENT DEGREE COLLEGE FOR WOMEN (AUTONOMOUS)
DEPARTMENT OF MICROBIOLOGY
B.Sc CBMB
ACADEMIC PLAN 2018-19
SEMESTER - I (Introduction to Microbiology and Microbial Diversity)

Month	Name of the Topic
June 2018	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 2018	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 2018	Staining Techniques Sterilization and disinfection techniques Physical methods Chemical methods
September 2018	Isolation of microorganisms from natural habitats Pure culture techniques Preservation of microbial cultures

I B.Sc., PAPER - II SEMESTER – II
MICROBIAL BIOCHEMISTRY & METABOLISM

Month	Name of the Topic
November 2018	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 2018	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 2019	Nutritional requirements of Microorganisms Microbial Growth Methods for measuring microbial growth

February 2019	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**

Month	Name of the Topic
June 2018	DNA and RNA as genetic material. • Structure and organization of prokaryotic DNA. • Extra chromosomal genetic elements – Plasmids and transposons in bacteria. • Replication of DNA
July 2018	Mutations DNA damage and repair Mutagens Genetic recombination in bacteria Types of RNA and their functions. Genetic code. Structure of ribosomes
August 2018	Types of genes – structural, constitutive, regulatory • Protein synthesis – Transcription and translation, regulation of gene expression in bacteria – lac operon
September 2018	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**

Month	Name of the Topic
November 2018	Types of immunity Primary and secondary organs of immune system Cells of immune system
December 2018	Antigens Antibodies Monoclonal antibodies Types of antigen-antibody reactions Host pathogen interactions
January 2019	• 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 2019	Bacterial diseases – Tuberculosis and Typhoid. • Fungal diseases – Candidiasis. • Protozoal diseases – Malaria. • Viral Diseases - Hepatitis- A and AIDS.

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

ENVIRONMENTAL & AGRICULTURAL MICROBIOLOGY

Month	Name of the Topic
June 2018	Terrestrial Environment Aquatic Environment Atmosphere Role of microorganisms in nutrient cycling Treatment and safety of drinking
July 2018	Microbial interactions Outlines of Solid Waste management • Liquid waste management
August 2018	Plant Growth Promoting Microorganisms Outlines of biological nitrogen fixation Biofertilizers
September 2018	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 2018	Intrinsic and extrinsic parameters that affect microbial growth in food Microbial spoilage of food Food-borne diseases Food intoxication
July 2018	Principles of food preservation Fermented Dairy foods Microorganisms as food Probiotics
August 2018	Microorganisms of industrial importance Screening and strain improvement Types of fermentation processes Ingredients of Fermentation media
September 2018	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
November2018	Microbial biotechnology Genetically engineered microbes for industrial application Recombinant microbial production processes in pharmaceutical industries Microbial biosensors
December2018	• Microbial based transformation of steroids and sterols Bio-catalytic processes Immobilization methods and their application
January2019	Biogas production Bio-ethanol and bio-diesel production Mineral recovery,
February2019	Outlines of Intellectual Property Rights: Patents, Copyrights, Trademarks

Paper 8A1: Microbial Diagnosis in Health Clinics Cluster

Month	Name of the Topic
November2018	Study of Bacteria and Protozoan Diseases affecting humans.
December2018	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
January2019	Serological Methods Typhoid, Dengue and HIV, Swine flu.
February2019	Importance, Determination of resistance/sensitivity of bacteria MIC

2018 - 19

Sem VI: SA2: Microbial Quality Control in Food and Pharmaceutical Industries

Month	Name of the Topic
November 2018	Good laboratory practices Biosafety cabinets Discarding biohazardous waste
December 2018	Culture and microscopic methods Biochemical and immunological methods Molecular methods
January 2019	Enrichment culture technique Ascertaining microbial quality of milk
February 2019	Hazard analysis of critical control point (HACCP) Microbial Standards for Different Foods and Water

Semester VI: SA3 - BIOFERTILIZERS AND BIOPESTICIDES

Month	Name of the Topic
November 2018	General account of the microbes used as biofertilizers Symbiotic N ₂ fixers • Frankia • Cyanobacteria and Azolla.
December 2018	• Free living Azospirillum, Azotobacter - isolation, characteristics, mass inoculum production and field application • Phosphate solubilizing microbes - Isolation, characterization, mass inoculum production, field application
January 2019	Importance of mycorrhizal inoculum, types of Mycorrhizae and associated plants, Mass inoculum production of VAM, field applications of Ectomycorrhizae and VAM.
February 2019	General account of microbes used as bioinsecticides Viruses - NPV cultivation and field applications.

M. Swarchale

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Department of Home Science

Annual Academic Plans – 2018-2019

SEMESTER - I

H.SC-101: BASIC NUTRITION

Date	Academic Plan
June 2018	<p>Definition and introduction to nutrition and RDA</p> <ul style="list-style-type: none">• Nutrition – definition, importance, Good nutrition and mal nutrition, visible symptoms of good health, Guidelines for good health <p>RDA: Definition, Reference Man and Women, Factors affecting on RDA of individual, Uses of RDA</p> <p>PRACTICALS</p> <ol style="list-style-type: none">1. Standardization of weights and measures of various food items.
July 2018	<p>A) Energy: Definition, dietary sources, RDA, deficiency.</p> <p>B) Determination of energy value of food by Bomb calorimeter. Basal metabolic rate - Definition, factors affecting on BMR, Thermic effect of food, Specific Dynamic Action of food.</p> <p>PRACTICALS</p> <ol style="list-style-type: none">1. Consulting Nutritive value of Indian Foods, calculating the nutritive value of recipe2. Identification of nutrient rich sources of foods, their seasonal availability and price.
August 2018	<p>Macro Nutrients –</p> <ul style="list-style-type: none">• Carbohydrates – Classification, functions, dietary sources, RDA, deficiency, role of fibre in human nutrition• Lipids – Classification, functions, dietary sources, RDA, deficiency, recommended combinations of oils for optimal health benefits. Essential Fatty Acids – Functions, deficiency <p>Proteins – Classification (Chemical and nutritional), functions, dietary sources, RDA, deficiency</p> <p>PRACTICALS</p> <ol style="list-style-type: none">1. Study of nutrition labelling on selected foods.

September 2018	<p>VITAMINS</p> <ul style="list-style-type: none"> • Fat soluble Vitamins- Functions, Deficiency, RDA, Food sources of Vitamin A, Vitamin D, Vitamin E, Vitamin K <p>Water soluble – Functions, Deficiency, RDA, Food sources of Thiamin (B₁), Riboflavin(B₂), Niacin (B₃), Pyridoxine (B₆), Folate, Vitamin B₁₂ and Vitamin-C</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. List out low cost nutrient rich foods. 2. List out nutrient foods for different income groups.
October 2018	<p>MINERALS</p> <ul style="list-style-type: none"> • Macro Minerals – Functions, Deficiency, RDA, Food sources of Calcium, Potassium and Sodium • Micro Minerals – Functions, Deficiency, RDA, Food sources of Iron, Iodine and Zinc. <p>PRACTICALS.</p> <ul style="list-style-type: none"> • Preparation of Soups • Preparation of salads

H.SC-102: BIO-CHEMISTRY

Date	Academic Plan
June 2018	<p>Chemistry of carbohydrates: Definition, classification, physical and chemical properties of carbohydrates, Isomerism (Stereo – Geometrical & optical isomerism), colour reactions</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Qualitative analysis of carbohydrates- 2. Monosaccharides (Glucose, Fructose),
July 2018	<p>Chemistry of lipids: Definition, Classification, physical and chemical properties of lipids. Colour reactions of lipids, saturated and unsaturated fatty acids.</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Disaccharides (Lactose, Maltose and Sucrose) and 2. Polysaccharides (Starch).

August 2018	<p>Chemistry of proteins: Definition, classification, Classification of amino acids. Colour reactions of proteins.</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Stages in acid hydrolysis of starch
September 2018	<p>Enzymes: Definition, classification IUB, Inhibition. Factors affecting enzyme activity. List of Co enzymes.</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Qualitative analysis of amino acids (Tyrosine, Tryptophan and Arginine).
October 2018	<p>Functions and structure of Nucleic acids Functions and structure of Nucleotides. Structure and types of RNA Nucleoproteins</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Qualitative analysis of Lipids

HSC-103 – MICROBIOLOGY

Date	Academic Plan
June 2018	<p>Unit I: Classification of microorganisms-Based on plants/animals-based on cellularity,-based on nature of nuclear material-Five kingdom concept Scope and importance of microbiology</p> <ol style="list-style-type: none"> 1. Bacteria-General Characteristics, classification, morphology, 2. Bacterial physiology, nutrition, reproduction, growth curve, temperature, oxygen and PH <p>PRACTICALS</p>

	1.Study of Microscope and its parts
July2018	<p>Unit II:</p> <p>a.Virus-Morphology-classification-reproduction-lab culture</p> <p>b.Fungi- morphology, physiology, lab culture, economic importance</p> <p>c. Sexually Transmitted Diseases-Syphilis, Gonorrhoea, HIV/AIDS.</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Simple staining method 2. Gram staining
August 2018	<p>Unit III:</p> <p>a.Immunology: Infection-organism and host related factors, Immunity (definition,-types-active-passive immunity), Resistance</p> <p>b. Food contamination and spoilage: 1.Cereals, 2.Fruits, 3.Vegetables,4.Milk & Milk products, 5.Meat & Fish, 6.Eggs.</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Acid fast staining
September 2018	<p>Microbiology of special environments</p> <p>Microbiology of soil -Nitrogen cycle, carbon cycle</p> <p>Microbiology of water, Microbiology of sewage</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Laboratory equipment
October 2018	<p>UNIT V:</p> <p>Causes, symptoms, mode of infection, diagnosis, treatment and control of the following diseases:</p> <p>a. Bacterial diseases (Cholera, Typhoid, Tuberculosis, Diphtheria, Pertusis, Tetanus)</p> <p>b. Viral (Measles, Rubella, Hepatitis)</p> <p>c. Protozoal: Diseases (Amoebiasis, Malaria)</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Observation of fixed slides

H.SC-201: HUMAN PHYSIOLOGY

Date	Academic Plan
NOVEMBER 2018	<p>(a) Circulatory system : Blood- Composition, functions, clotting of blood, blood groups, R^h factor , anaemia.</p> <p>(b) Cardiovascular system: Anatomy of the heart, heart rate, Cardiac cycle, Blood Pressure, Factors maintaining blood pressure.</p> <p><u>PRACTICALS</u></p> <p>I. Slides</p> <p>1 .Types of epithelium -any three (columnar, ciliated, squamous,etc)</p> <p>2 Types of muscle -any three (striated, non-striated, cardiac, etc.)</p>
December 2018	<p>(a) Digestive system: Structure and functions-Liver and pancreas</p> <p>(b) Respiration: Structure of respiratory organs; Mechanism and Chemistry of respiration. Abnormal types of respiration- anoxia, hypoxia, asphyxia and Artificial respiration.</p> <p><u>PRACTICALS</u></p> <p>I. Slides</p> <p>1. T..S of organs -any three (cartilage, bone, kidney, testes, ovary, etc.)</p>
January 2019	<p>Excretory system: Structure and functions of Kidney, urine- composition volume, formation and micturition</p> <p><u>PRACTICALS</u></p> <p>II. Experiments.</p> <p>4 Identification of Blood groups & Rh factor</p>
February 2019	<p>Nervous system: Structure of neuron, reflex action, spinal cord, brain and their membranes, autonomic nervous System. Central Nervous System</p> <p><u>PRACTICAL</u></p> <p>5 Preparation of Blood smear.</p>
March 2019	<p>(a). Endocrine glands : Hormones, Secretion of hormones, and their influence on growth Metabolism & reproduction. Pituitary, thyroid, parathyroid and adrenal glands</p> <p>(b)Physiology of Reproduction: Anatomy of male and female reproductive system. Puberty changes</p> <p><u>PRACTICALS</u></p>

6 Observation and recording of body temperature and pulse rate before and after exercise.
7 Estimation of Hb -.Demonstration

H.SC-202: NUTRITIONAL BIO CHEMISTRY

Date	Academic Plan
NOVEMBER 2018	<p>Metabolism of Carbohydrates: Introduction, anabolism, catabolism, metabolism. Glycogenesis, Glycogenolysis, Glycolysis, Kreb's cycle, energy output, Homeostasis of blood sugar-role of hormones, Glucose Tolerance Test.</p> <p>PRACTICAL:</p> <p>1. Estimation of reducing sugar by Benedict's quantitative method</p>
December 2018	<p>Metabolism of lipids: Introduction, β-oxidation of fatty acids, Biosynthesis of fatty acids, Synthesis of triglycerides, Atherosclerosis (in brief)</p> <p>PRACTICAL:</p> <p>2. Estimation of ascorbic acid in limejuice</p>
January 2019	<p>Metabolism of proteins: Dynamic equilibrium, nitrogen balance, Essential Amino Acids, glycogenic, ketogenic, and both glycogenic and ketogenic amino acids.</p> <p>Oxidation of amino acids-(i) Transamination, (ii) Deamination- a.Oxidative, b. Non-oxidative, (iii) Decarboxylation.</p> <p>PRACTICAL:</p> <p>3. Estimation of iodine value of fat/ free fatty acid value (gingelly oil, groundnut oil, coconut oil)</p>

February 2019	<p>(a). Importance of water– functions, sources, requirement – effect of deficiency. (b). Acid base balance.</p> <p>PRACTICAL:</p> <p>Demonstrations: Estimation of blood glucose (Glucose Tolerance Test) Chromatographic separation of carbohydrates/ amino acids</p>
March 2019	<p>(a). Interrelationship between nutrients (b). Nutrition and Infection</p> <p>PRACTICAL:</p> <p>Enzymes- ptyalin or salivary amylase action on boiled starch solution- spot plate testing with iodine.</p>

H.SC-203: GENERAL PSYCHOLOGY

Date	Academic Plan
NOVEMBER 2018	<p>Introduction to Psychology: Definitions, Branches of psychology -1.Pure psychology 2.Applied psychology. Methods of psychology – Introspection, Naturalistic observational, experimental method, clinical method and Normative survey methods.</p> <p>PRACTICALS</p> <p>1. Muller lyre illusion – Perception.</p>
December 2018	<p>(a)Perception: Definition, meaning- perceptual organization and its principles - perceptual constancies: shape, size, brightness, space, distance, direction, etc; perceptual organization and illusions</p> <p>(b)Attention-definition- types – determinants of attention. meaning of span of attention, shifting of attention, Division of attention, Distraction of attention</p> <p>PRACTICALS</p> <p>2. Thurston’s Interest Schedule – Vocational Interest. 3. Bells Adjustment Inventory – Personality.</p>

January 2019	<p>Learning and Remembering: (a) Learning- Definition – classical and operant conditioning- learning by imitation – cognitive learning. (b) Memory – definition, Process of memorization, kinds of memory immediate, short term, and long term memory, the study of memory, Memorization techniques. Forgetting- definition and types, nature of forgetting – improving memory.</p> <p>PRACTICALS</p> <p>4. Raven’s progressive Matrices – Intelligence. 5. Memory tests – Memory.</p>
February 2019	<p>(a) Motivation and Emotions: definitions – psychological basis –Needs and Drives- classification – physiological, psychological and social motives, unconscious motivation. (b) Definition of emotion and feelings- development of emotions. Theories - Some examples of adaptive and disruptive emotion.</p> <p>PRACTICALS</p> <p>6. Projective tests - Personality.</p>
March 2019	<p>UNIT V Major Psychological Approaches - II</p> <ul style="list-style-type: none"> • Intelligence: Definition of terms - Cognition, Meta cognition, Intelligence, Intelligence Quotient (IQ) and Emotional Intelligence. Assessment of Intelligence – Verbal and nonverbal tests, classification of children based on intelligence, extremities of intelligence - sub normal and the gifted. • Gardner’s Multiple Intelligence theory. <p>PRACTICALS</p> <p>7. Interest record.</p>

H.SC-301: FOOD SCIENCE

Date	Academic Plan
June 2018	<p>Definitions: Food, Food Science, Nutrition, Nutrients, Health, Malnutrition, Balanced diet.</p> <p>Functions of food Classification of food, Basic five food groups (NIN), energy yielding, bodybuilding and protective foods; food guide pyramid</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Preparations with cereals and millets. 2. Preparations with legumes.

July2018	<p>Methods of cooking- Definition, advantages and disadvantages of cooking</p> <p>a) Classification of cooking methods-</p> <p><i>i. Wet methods-</i> Boiling, simmering, steaming (direct, indirect), cooking under pressure</p> <p><i>ii .Dry methods-</i> Baking, broiling or grilling, pan-broiling, parching.</p> <p><i>ii. Frying methods-</i> Deep fat frying, shallow fat frying</p> <p><i>iv. Microwave</i> cooking, <i>solar</i> cooking.</p> <p>Effect of cooking on food and nutrients.</p> <p>b) Objectives of Cooking</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Preparations with fruits. 2. Preparations with vegetables.
August 2018	<p>Study of food from vegetable origin:</p> <p><i>i. Rice-</i> Structure, composition, nutritive value, parboiling, gelatinization, rice products (rice flakes, puffed rice).</p> <p><i>ii. Wheat-</i> Structure, composition, nutritive value, wheat products (spaghetti, vermicelli, bread, noodles).</p> <p><i>iii .Maize-</i> Structure, composition, nutritive value.</p> <p><i>iv. Millets-</i> Ragi, jowar, bajra, oats; malting.</p> <p>b.Legumes or pulses- Composition, nutritive value, sprouting or germination, fermentation.</p> <p>c.Nuts and oil seeds- Groundnut, coconut, gingili seeds, soybean, etc., and their role in cookery.</p> <p>d.Fruits and vegetables- Classification, composition, nutritive value, pigments, ripening changes, browning reaction (enzymatic and non-enzymatic).</p> <p>e.Spices and condiments- Definition, uses, role in cookery, common spices and condiments.</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Preparations with Milk 2. Preparations with Egg
September 2018	<p>Study of food from animal origin:</p> <p>a. Milk and milk products- Importance, composition, nutritive value, and types of milk available in the market (non fermented, fermented, etc),</p> <p>b. Eggs- Structure, composition, nutritive value, role of eggs in cookery.</p> <p>c. Flesh food-</p> <p>i. Meat- Composition, nutritive value, tenderness of meat, changes during cooking.</p> <p>ii.Poultry- Classification, nutritive value.</p> <p>iii.Sea foods- Fish : composition, nutritive value.</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Preparations with Flesh foods 2. Preparation of Beverages

October 2018	<p>Miscellaneous foods:</p> <p>a. Beverages- Definition, classification, types of fruit beverages</p> <p>b. Ready-to-eat or convenience foods- Advantages and disadvantages, types of convenience foods available in the market.</p> <p>c. Food Labelling</p> <p>PRACTICALS</p> <p>1. Experimental cookery on: Cereals, Pulses, Fruits, Vegetables, Green leafy vegetables, Milk , Eggs.</p>
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H.SC-302: TEXTILE FIBERS

Date	Academic Plan
June 2018	<p>Introduction to Textiles and Clothing:</p> <p>a. Importance of study of textiles to the consumer:</p> <p>Terminology- Staple, filament, tenacity, abrasion resistance, heat conductivity, absorbency, dye ability, dimensional stability, drapability, and wrinkle resistance</p> <p>Properties: Physical, thermal and chemical properties.</p> <p>Classification of textile fibers:</p> <p>(a) Based on length- Staple and filament</p> <p>(b) Based on source- Natural, manmade, synthetic</p> <p>PRACTICALS</p> <p>1. Sewing machine description, use, care and simple repairs</p> <p>2. Sewing kit, sewing equipment, measuring tools, marking tools and tools used during construction</p>
July 2018	<p>Detailed study of production, properties, use and care of</p> <p>a. Natural vegetable fibers-Cotton</p> <p>b. Natural vegetable fibers-Linen</p> <p>PRACTICALS</p> <p>3. Basic hand stitches: I) <u>Decorative stitches</u>-stem, chain, lazy-daisy, satin, buttonhole, feather, straight, French knot, bullion stitch, etc. (any 10 stitches)</p> <p>II. <u>constructive stitches- Temporary stitches</u> : i. Even basting ii Uneven basting</p> <p>iii. Diagonal basting iv. Slip basting</p> <p><u>Permanent stitches:</u> Running ii. Back stitch</p>
August 2018	<p>Detailed study of production, properties, use and care of</p> <p>a. Natural protein fibers-Silk</p> <p>b. Natural protein fibers- Wool</p> <p>PRACTICALS</p> <p>4. Hem stitches: Ordinary hemming ii. Slip hemming (Seams and seam finishes)</p> <p>4. i. Plain ii. French iii. Run and fell</p>

September 2018	<p>Detailed study of production, properties, use and care of Manmade fibers-Rayon, Nylon, Polyester and Acrylic fibers</p> <p>PRACTICALS</p> <p>5.Introducing fullness:<u>Darts:</u> i.Single ii.Double pointed :<u>Pleats:</u>i.Box ii.Knife Tucks:Pin tucks</p> <p>6.Neckline finishes: Preparation of bias strip, stay stitching, facing and binding.</p> <p>7.Plackets: i. Two way ii. Continuous</p>
October 2018	<p>Yarn formation: Definition, steps in spinning- mechanical and chemical, yarn count (denier- used for manmade fibers), yarn twist, classification of yarns-simple, novelty, texxturised yarns</p> <p>Mixtures and Blends of natural cellulose fibres, natural protein fibres and manmade fibres.</p> <p>PRACTICALS</p> <p>8.Fasteners: i. Buttons and buttonholes ii. Hooks and eyes iii. Zipper</p> <p>9.Textiles chemistry- identification of textile fibres- microscopic examination- burning test</p>

H.SC-303: HOUSING FOR BETTER FAMILY LIVING

Date	Academic Plan
June 2018	<p>Housing</p> <ul style="list-style-type: none"> • Functions of a house • Housing needs in different stages of family life cycle. • Selection of site • Safety at Home: Pest Control, Prevention of accidents <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. House plan- symbols, site plan, floor plan 2. House Plans- 1 BHK,2 BHK

July2018	<ul style="list-style-type: none"> • Orientation • Principles of planning- aspect, prospect, privacy, grouping, circulation, sanitation Language of drafts man • Advantages of owning and renting a house <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Kitchen plans- L shape, U shape, broken, L, U Shape, peninsular, one walled 2. Market study on building material- floor finishes- wall finishes- ceiling finishes
August 2018	<ul style="list-style-type: none"> • Planning for efficient work centers-Types of kitchens (differentiate L, U, Broken L, U, Single walled, peninsular shaped kitchen) • Planning for storage areas in the kitchen <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Study of house hold equipment with demonstration
September 2018	<ul style="list-style-type: none"> • Planning for efficient work centers-Types of kitchens (differentiate L, U, Broken L, U, Single walled, peninsular shaped kitchen) • Planning for storage areas in the kitchen <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Study of cost effective appliances with demonstration
October 2018	<ul style="list-style-type: none"> • Household equipment- importance, classification, factors in selection of equipment • Construction, mechanism use and care of refrigerator vacuum cleaner, washing machine, geysers, microwave, mixer, pressure cooker, dish washer & induction stove. • Appropriate Technologies – smokeless chulah, gobar gas , solar cooker and rural refrigerator <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Field visit to observe various types of kitchens

H.SC-401: FAMILY NUTRITION

Date	Academic Plan
NOVEMBER 2018	<p>(a) Selection of food: Socio-economic and socio-cultural factors influencing family food choices with special emphasis on food fads and fallacies.</p> <p>(b) Principles of Meal Planning</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Planning and preparation of a balanced diet for pregnant women. 2. Planning and preparation of a balanced diet for a Nursing Mother.

December 2018	<p>Food and Nutritional requirements for</p> <ol style="list-style-type: none"> a. Infancy (breast and bottle feeds, weaning and supplementary foods) b. Preschool children c. School going children – d. Packed lunch <p>PRACTICALS</p> <ol style="list-style-type: none"> 3. Preparation of low cost weaning mixes 4. Planning and preparation of a balanced diet for a Pre School Child.
January 2019	<p>Food and Nutritional requirements for</p> <ol style="list-style-type: none"> a. Adolescent boys and girls b. Adults – Man and Women (Sedentary, Moderate, and Heavy work) <p>PRACTICALS</p> <ol style="list-style-type: none"> 5. Planning and preparation of packed lunch for school going child 6. Planning and preparation of a balanced diet during Adolescence.
February 2019	<p>Food and Nutritional requirements for old age</p> <ol style="list-style-type: none"> a. Nutrition related problems of old age, b. Modification of diet during old age c. Food and Nutritional requirements <p>PRACTICALS</p> <ol style="list-style-type: none"> 7. Planning and preparation of a balanced diet for adult man and woman doing different physical activities-sedentary, moderate, heavy worker.
March 2019	<p>Food and Nutritional requirements for</p> <ol style="list-style-type: none"> (a) Expectant Mothers: Physiological changes, General dietary problems, complications Food and Nutritional requirements (b) Lactating Women: Role of Hormones, Factors affecting the volume and composition of breast milk, Food and Nutritional requirements <p>PRACTICALS</p> <p>.</p>

8. Planning and preparation of a balanced diet for elderly.

H.SC-402: FABRIC CONSTRUCTION

Date	Academic Plan
NOVEMBER 2018	<p>Fabric Construction:</p> <ul style="list-style-type: none"> i. Weaving – Introduction, parts of a loom, essential weaving operations,. ii. Types of weaves – Basic-plain, basket, rib, twill, satin and sateen. iii. Thread count, selvage, grain, fabric balance. iv. Decorative weaves <p>PRACTICALS</p> <ul style="list-style-type: none"> 1.Preparation of fabric for garment construction- straightening- shrinking- pressing- 2.Preparation of fabric for cutting-importance of grain, steps in preparing the fabric for cutting, laying the pattern on fabric, cutting, marking and stay stitching
December 2018	<p>Non-Woven fabrics – Knitting: Felting, Braiding, Netting, Laces- crochet</p> <p>PRACTICALS</p> <ul style="list-style-type: none"> 1. Taking body measurements 2. Construction of Sleeves: Basic (plain) sleeve
January 2019	<p>Finishes: Introduction, definition, classification.</p> <p style="text-align: center;">Mechanical finishes – Beetling; Brushing and shearing: Calendaring, Sanforising, Crepe effect. Embossing, Moireing, Glazing; Napping: Smooth finish: Tentering.</p> <p>PRACTICALS</p> <p>4.Weaving:</p> <ul style="list-style-type: none"> a. Plain weave b. Basket weave c. Rib weave d. Twill e. Satin and sateen weave f. Thread count

February 2019	<p>Chemical finishes; Sizing and Dressing; Mercerizing: Bleaching, weighting Crease resistant, Crêpe effect. Flame proof.</p> <p>Special purpose finishes – Water repellency: Water proof; Absorbent finishes, Moth proof, mildew proof, slip resistance; Antiseptic and anti static finishes.</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Field visit to textile mill.
March 2019	<p>Traditionsl Textiles of India-History of art of weaving in India, Ducca Muslins, and sarees, Chandery Muslins, Baluchar Buttedar, Paithanis and Pithambers, Patola, Banaras Brocades, Himrus and Amrus, Bandhanis.</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Construction of a baby frock (5-6 years)

H.SC-403: INTERIOR DECORATION

Date	Academic Plan
NOVEMBER 2018	<ul style="list-style-type: none"> • Interior Design Meaning and importance of interior design, objectives • Elements of Design-Line, Form, Shape, Texture, Value, Colour, Space, <p>Practicals Interior Design- A) Elements of Design, B) Types of Design- Natural, Decorative conventional, Geometric abstract drawing/ painting/ clipping using magazines.</p>
December 2018	<ul style="list-style-type: none"> • Principles of Art- Harmony, Balance, Rhythm, Emphasis and Proportion • Colour- Prang colour chart, colour schemes , emotional effects of colours <p>Practicals</p> <ol style="list-style-type: none"> 1. Application of principles of art in different rooms- a) Harmony b) Balance c) Rhythm, d) Emphasis and e) Proportion, Drawing/ painting/ clipping from magazine <p>.Colour- value chart, prang colour chart, six standard colours, application of colour harmonies in different rooms of the house.</p>
January 2019	<ul style="list-style-type: none"> • Accessories –importance, classification types, use in interior decoration • Flower arrangement- traditional, modern, Japanese- Ikbana- Miniature and Deminiature, Aids and accessories in Flower arrangement <p>Practicals Interior Design- A) Elements of Design, B) Types of Design- Natural, Decorative conventional, Geometric abstract drawing/ painting/ clipping using magazines.</p> <ol style="list-style-type: none"> 1. Different types of flowers arrangement

	2. Table setting- Indian and western styles
February 2019	<ul style="list-style-type: none"> • Furniture : types, selection arrangement • Table setting: requisites, western and Indian styles Practicals <ol style="list-style-type: none"> 1. North Indian and south Indian meal laying
March 2019	Furnishings-Classification, Factors in selection, fabric selection Practicals <ol style="list-style-type: none"> 1. Buffet arrangement

H.SC-501: HUMAN DEVELOPMENT

Date	Academic Plan
June 2018	<ul style="list-style-type: none"> • Growth and development- definitions of growth, development, maturity, learning, heredity, environment, • Principles of development • Factors affecting growth and development PRACTICALS Case study of a pregnant woman Observation of characteristic of infant
July 2018	<ul style="list-style-type: none"> • Prenatal period- stages of pre natal development with its Hazards – factors influencing , Major and minor complications during pregnancy • Parturition-stages, types of birth PRACTICALS Observation of characteristics of preschool child Observation of characteristics of preschool

August 2018	<ul style="list-style-type: none"> • Neonate: APGAR test, Physical and physiological needs of neonate-characteristics of neonate, adjustments of neonate • Babyhood-characteristics- physical, motor, language, social, emotional and cognitive developments <p>PRACTICALS Observation of characteristic of late childhood</p>
September 2018	<ul style="list-style-type: none"> • Early childhood -characteristics- physical, motor, language, social, moral, emotional and cognitive developments • Late childhood-characteristics- physical, motor, language, social, moral, emotional and cognitive developments <p>PRACTICALS Visit to a Neonatal Unit</p>
October 2018	<ul style="list-style-type: none"> • Puberty-characteristics - physical and physiological changes • Adolescence- characteristics physical, social, moral, emotional and cognitive developments, adjustment problems in the family <p>PRACTICALS Case study of adolescent and adjustment problems</p>

H.SC-502: MANAGEMENT OF FAMILY RESOURCES

Date	Academic Plan
June 2018	Resources- meaning, classification and characteristics, guidelines for use of resources PRACTICALS 1) Work simplification techniques –Path way chart
July2018	Management process- planning, organizing, controlling, delegating, guiding, coordinating, supervising and evaluating ,its importance in Home making –Qualities of a good homemaker-Ethics in Home Management. PRACTICALS 2) Plan and arrange for a festival a) Sankranti b) X-mas, c) Ramzan

August 2018	Decision making: definitions- kinds of decision- habitual versus conscious decision making, individual and group decisions, steps in decision making- role of decision making. PRACTICALS 3) Decision Making Tree
September 2018	Management of time- nature and significance- different activities in the home – Preparation of Time Plans ,Techniques of Time Management-Work curve, Peak Load, Time Cost. PRACTICALS 4) Identifying short term, long term goals of a family.
October 2018	Energy management in the home- meaning- principles of work simplification- Mundel’s classification of change/ Body mechanisms, fatigue- meaning- types of fatigue and methods of avoiding fatigue- peak loads PRACTICALS 5) Time plans a) Students on a working day and holiday b) Time plan for house wife c) Time plan for working woman on a working day and holiday

H.SC-503: HOME SCIENCE EXTENSION

Date	Academic Plan
June 2018	<p>: Nature and scope of Extension education–</p> <ul style="list-style-type: none"> - Definitions - Meaning of Extension - Concept of Extension Education Process (Dr.J.Paul Leagans) - Need for Extension Education - Distinguishing features of Extension Education - Principles, Objectives and functions of extension - Principles and Philosophy of Extension Education - Principles underlying the philosophy of extension. - Role and qualities of Extension worker/ agent <p>PRACTICALS</p> <ul style="list-style-type: none"> o Preparation of Teaching aids - Model

	<ul style="list-style-type: none"> - Poster - Flash card
July 2018	<p>Basic Principles of Teaching and Learning.</p> <ul style="list-style-type: none"> - Definition: Teaching, Learning, learning experiences, learning situation. - Basic elements of learning situation and their characteristics. - Principles of learning and their implications for teaching. - Principles of Motivation in Extension, Classification of Motives - Steps in Extension teaching. <p>PRACTICALS</p> <ul style="list-style-type: none"> ○ Preparation of Teaching aids <ul style="list-style-type: none"> - Flannel graph - PPT/ OHP Slides
August 2018	<p>Communication- Introduction</p> <ul style="list-style-type: none"> - What is communication?- definition - Types/ forms, and functions of communication. - Key Elements of communication process (Leagan's model). - Nature and importance of communication - Components of communication process <p>PRACTICALS</p> <ul style="list-style-type: none"> ○ Preparation of Teaching aids <ul style="list-style-type: none"> - Charts <ul style="list-style-type: none"> ● Pull chart ● Tree chart ● Flip chart ● Striptease chart ● Overlay chart
September 2018	<p>Teaching aids</p> <ul style="list-style-type: none"> - Definition (Audio, Video and Audio-visual aids) and Purpose - Classification of audio-visual aids - Types of Audio Visual Aids (Cone of Experience by Edgar Dale) - Effective use of Audio visual aids - Purpose, Advantages and limitations of each aid. <ul style="list-style-type: none"> ● Public address system, telephone ● Models, mock-ups, specimens, objects ● Exhibits, motion pictures, video, recordings ● Still pictures (a) projected, (b) non-projected

	<ul style="list-style-type: none"> • Other visual aids- chalk board, bulletin board, flannel graph, flash cards, poster, charts- different types of charts. • Dust and mud sketching. • Dramatization, puppets, role play, harikatha, burrakatha, etc. <ul style="list-style-type: none"> - Factors influencing the selection of Audio Visual Aids - Criteria for Selection of Audio Visual Aids <p>PRACTICALS</p> <ul style="list-style-type: none"> ○ Preparation of Teaching aids <ul style="list-style-type: none"> - Puppets
October 2018	<p>Role of Home Science in community Development</p> <ul style="list-style-type: none"> - Meaning and scope of Home Science - Role of Home Science in Community Development - Role of Home Science Extension <p>PRACTICALS</p> <p>2. Putting up display:</p> <ul style="list-style-type: none"> - Bulletin board - Exhibition

H.SC-504(a): SOCIOLOGY

Date	Academic Plan
June 2018	Sociology- its relation to other social sciences, nature of society and culture Society and individual, social interaction, socialization, agents of socialization, social institutions- family, marriage, religion and educational institution
July 2018	Social groups- primary- secondary groups, formal and non formal groups Different types of family structure, changing village system in India.

August 2018	Indian city- consequences of planned and unplanned industrialization, problems of providing basic amenities
September 2018	Prevailing practices- current social problems Juvenile delinquency uncontrolled population (poverty, beggary, human trafficking and domestic violence, child marriage). Areas needing social change- social reforms and progress with special reference to women.
October 2018	Concept of welfare state- Directive principles of the Indian constitution. Causes for growth of population, Consequences of population explosion, Population Education Additional Inputs: Case studies on social problems.

H.SC-505(a): FABRIC EMBLISHMENT

Date	Academic Plan
June 2018	<p>Dyes and Dyeing: Definition-dye, mordant, dyeing, fastness.</p> <p>Classification of dyes: Natural Dyes: Vegetable Animal, Mineral Synthetic Dyes: Direct or substantive dyes, Vat dyes, Mordant or Chrome dyes, Acid, Basic, Sulphur, Disperse.</p> <p>Methods of Dyeing: Preparation of material for dyeing and printing Stock dyeing, Yarn dyeing, Piece dyeing, solution dyeing, Pigment or dope dyeing, garment dyeing. Identifying dyeing defects:</p> <p>PRACTICALS</p> <p>1. Laundering: (a)Sorting, (b)Mending, darning, (c)Stain removal, (d)Laundering of cotton, wool, silk and synthetic fabrics, (e)Application of blue (direct and indirect method) (f)Application of starch, (g)Finishing /ironing</p>
July2018	<p>Printing: Introduction, definition.</p> <p>Various methods of printing: Direct-:Block, Stencil, Roller, Duplex, Discharge, Resist- Screen, Transfer, Warp, Photo, Batik, Tie Dyeing and Flocking.</p> <p>PRACTICALS</p> <p>2. Dyeing and Printing</p> <p>i) <u>Direct dyeing/printing</u> (a) Stencil- with brush, spray techniques</p>

	<p>(b) Block printing.</p> <p>ii) <u>Resist dyeing/printing</u></p> <p>(a) Batik using cold dyes.</p> <p>(b) Tie dyeing with naphthals and vats</p>
August 2018	<p>Care of clothing:</p> <p>i. Laundry equipment – reagents uses and applications.</p> <p>ii. Principles of laundering-washing machines-brands available and types</p> <p>iii. Methods of laundering – Bleaching and finishing.</p> <p>iv. Stain removal</p> <p>v. Dry cleaning</p> <p>PRACTICALS</p> <p>3..Attaching sari fall</p> <p>4. Picot</p>
September 2018	<p>: Traditional Indian Textiles :</p> <p>Traditional Embroideries – Kaseeda, Punjab Phulkari, Chamba Roomals, Kanthas of Bengal, Lucknow Work- Motifs, Stitches used and colours etc.</p> <p>South Indian Textiles: Kanjeevaram, Mysore silk, Venkatagiri, Mangalagiri, Gadwal, Uppada, Narayanpet, Pochampalli, and Kalamkari (Machilipatnam, Kalahasthi) fabrics.</p> <p>PRACTICALS</p> <p>5 Renovating old garments</p> <p>6. Drafting, pattern laying, cutting and Construction of</p> <p>i. Pillow cover, ii. Sari petticoat,</p>
October 2018	<p>Study of Traditional Indian Costumes and accessories- Introduction, definition of costume, accessory.</p> <p>Traditional male and female costumes prevalent in different states of India- Andhra Pradesh, Tamilnadu, Kerala, Karnataka, Maharastra, Punjab,Jammu & Kasmir, Assam, Bengal, their importance in present scenario in textiles and apparel industry.</p> <p>Different types of accessories</p> <p>PRACTICALS</p> <p>7. Drafting, pattern laying, cutting and Construction of</p> <p>iii. Kameez/ kurthi, iv. Salvar/chudidar.</p>

H.SC-506(a): COMMUNITY NUTRITION

Date	Academic Plan
June 2018	<p>a. Food adulteration -</p> <ul style="list-style-type: none"> ➤ Adulterants in different foods, their harmful effects. ➤ Simple tests for detection of adulterants in food ➤ Prevention of Food Adulteration Act

	<p>Home Scale methods of Food Preservation – Introduction, preparation of Jam, Jellies and squash</p> <p>PRATICALS</p> <ol style="list-style-type: none"> 1.Simple physical and chemical tests for detection of adulterants in food 2.Diet and Nutrition surveys
July2018	<p>Assessment of nutritional status of the community</p> <p>Introduction, definition of Nutritional status, need of nutritional assessment.</p> <p>Anthropometry- Age, Body weight, Height, , MUAC, Head Circumference, Chest Circumference, WHR</p> <ol style="list-style-type: none"> a) Nutritional Assessment classification - for children : weight for age, height for age and weight for height using WHO standards, for Adults: BMI (WHO Classification) b) Clinical Assessment – Nutritional deficiency symptoms c) Biochemical Methods – for assessing nutritional status need for biochemical tests (Urine, Blood and stools) <p>PRATICALS</p> <ol style="list-style-type: none"> 1. Identifying vulnerable, at risk groups 2. Breast feeding and weaning practices of specific groups.
August 2018	<ol style="list-style-type: none"> (a) Dietary Assessment - Food Balance sheet, Inventory or log book method, food weighment method, Expenditure pattern method, Oral Question method (24Hours Recall method). General guide lines for carrying out Diet surveys in the community. (b) Vital Statistics: Infant mortality rate, Peri-natal Mortality Rate, Maternal Mortality Rate <p>PRATICALS</p> <ol style="list-style-type: none"> 3. Use of Anthropometric measurements in assessing the nutritional status.
September 2018	<ol style="list-style-type: none"> a. National Nutrition Policy – Direct and Indirect Interventions b. National Nutritional Programmes - Direct Nutrition programmes <ul style="list-style-type: none"> ○ Vit A prophylaxis programme ○ Iron prophylaxis programme ○ Universal Iodisation of salt <p>Indirect nutritional programmes</p> <ul style="list-style-type: none"> ○ ICDS ○ Mid day meal programme c. Role of National and international organizations in alleviating Malnutrition <p>PRATICALS</p> <ol style="list-style-type: none"> 4. Observation of mid day programme at Anganwadi Center.

October 2018	<p>a. Nutritional problems prevalent in India –Protein Energy Malnutrition, Anaemia, Vitamin-A, Iodine and B-complex deficiencies.</p> <p>b. Food Security – Household level and National level</p> <p>Nutrition Education: Importance and types</p> <p>PRATICALS</p> <p>5. Observation and Planning of School Lunch Programmes.</p>
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H.SC-601: EARLY CHILDHOOD CARE AND EDUCATION

Date	Academic Plan
NOVEMBER 2018	<ul style="list-style-type: none"> • History and significance of ECCE- Aims and Objectives, • Types of preschools- Nursery, Anganwadi, Montessori schools. <p>PRACTICALS</p> <ul style="list-style-type: none"> • Observation of preschool child - recording the all round developmental behavior of the child.
December 2018	<ul style="list-style-type: none"> • Characteristics of preschool - site, location, space, equipment, facilities, qualities of preschool teachers, records and registers to be maintained. <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Observation of preschool teachers 2. Observation of preschool program
January 2019	<ul style="list-style-type: none"> • Play behavior in children- stages of play behavior- values of plays- physical, social, educational psychological and therapeutic values. • Types of play- free play, dramatic, constructive etc. <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Visit to Anganwadi centre. 2. Planning a days program and participating in preschool
February 2019	<ul style="list-style-type: none"> • Preschool program- long term, short term planning. Daily program, model program- importance of each activity in a days program (Medical check up, outdoor and indoor play, snack, rest, story, rhyme, creative activity and science experience) <p>Importance of parent teacher meeting.</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Preparation of any play equipment

March 2019	<ul style="list-style-type: none"> • Needs of children • Rights of Child • Organization and programs for child welfare-International- UNICEF, WHO, UNESCO, FAO, CARE ,National- NIPCCD, ICDS, NCERT, SSA, SOS village, ICCW, IAPE etc <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Organizing - participating in parent teacher meeting
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H.SC-602: THERAPEUTIC NUTRITION

Date	Academic Plan
NOVEMBER 2018	<p>1. Dietician – Definition, Role & responsibilities of dietician, Code of Ethics, Indian Dietetic Association (IDA), introduction- history, membership, registered dietitian, Diet Counseling - Importance</p> <p>2. Methods of Feeding – Enteral and Parenteral</p> <p>Types of diets- clear fluid, full fluid, soft and regular normal diet</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Modification of normal diet. 2. Planning and preparation of diets for the following conditions <ol style="list-style-type: none"> a. Peptic ulcer and constipation b. Diabetes Mellitus
December 2018	<p>a. Diet in Fevers – causes, Types and general dietary modifications</p> <p>b. Diet during Nutritional disorders</p> <ol style="list-style-type: none"> 1. Under nutrition - Aetiology, Food and Nutritional requirement, dietary requirement. <p>Obesity – Aetiology, Types, assessment, Dietary guidelines, nutritional requirements and suggested recipes.</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Planning and preparation of diets for the following conditions <ol style="list-style-type: none"> a. Atherosclerosis b. Nephritis c. Obesity d. Jaundice
January 2019	<p>a. Diet in Diabetes Mellitus – Aetiology, Types, Symptoms, Diagnosis, Management of Diabetes (Diet, Drugs, Physical activity and Awareness)</p> <p>b. Kidney diseases – Diet during Glomerulonephritis and Nephrotic Syndrome.</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 3. Diet in Kwashiorkor, Marasmus 4. Planning a diet for typhoid patient

February 2019	<p>a. Cardiovascular diseases – Dietary management during Atherosclerosis and role of fat. Dietary management in Hypertension</p> <p>b. Cancer – Nutritional problems of cancer therapy and Dietary management</p> <p>PRACTICALS</p> <p>5.Planning a diet for common fever 6.Planning a diet for hypertension patient</p>
March 2019	<p>Gastro intestinal tract diseases</p> <p>1. Dietary management in diarrhea, constipation and peptic ulcer. Dietary management in liver diseases- Infective hepatitis, Cirrhosis of Liver, jaundice.</p> <p>PRACTICALS</p> <p>1. Visit to dietary department</p>

H.SC-603: HOME SCIENCE EXTENSION AND COMMUNITY DEVELOPMENT

Date	Academic Plan
NOVEMBER 2018	<p>Extension Programme Planning</p> <ul style="list-style-type: none"> ➤ Extension Programme Planning - Definition ➤ Criteria for Good Programme Planning ➤ Principles of Programme planning ➤ Steps for making a programme ➤ Methods to find out felt and unfelt needs of the community. ➤ PRA (Participatory Rural Appraisal) methods ➤ Evaluation: Principles, methods of evaluating individual and group performances <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Preparation of literature: 2. (Pamphlet/folders)
December 2018	<p>Extension teaching methods:</p> <ul style="list-style-type: none"> - Introduction - Definition - Classification of Extension teaching methods 1. According to use 2. According to form - Individual contacts (i) Form and home visits (ii) Office calls (iii) Personal letters (iv) Result demonstration - Group contacts (i) Method demonstration (ii) General meetings (iii) Field trips - Mass contacts (i) Publications (ii) Circular letters (iii) News articles (iv) Radio (v) Television (vi) Campaign

	<ul style="list-style-type: none"> - Strong and weak points of three categories of Extension methods - Factors to be considered in the selection, combination and use of Extension methods. <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Survey in a community to find out needs and interests of people and resources available. 2. Planning lessons for the women based on their needs and interests.
January 2019	<p>Planning lessons for specific groups.</p> <ul style="list-style-type: none"> • Definition • Introduction • values and necessities of lesson plan • components of lesson plan, • Important aspects of good lesson plan, etc. <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Plan an activity to create awareness among women and children of community surveyed according to their needs and interest (Nutrition Education, Child care), (a)Lecture cum group discussion <ol style="list-style-type: none"> a. Method demonstration 2. Conducting workshop to teach any craft.
February 2019	<p>Contribution of voluntary organizations in Extension</p> <p>International- CARE- REDCROSS</p> <p>National--DWACRA -TRYSEM - NREGA , NFSM, NIRD ICAR, CDP, KVK, MAHILA MANDAL, NES</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Planning and conducting a field trip to any institute related to Extension work to get acquainted with the set-up. 2. . Extension programme planning- a model.
March 2019	<p>(a): Three tire Panchayat raj system in India</p> <p>(b): Extension Administration and Supervision – Principles of Good Administration,</p> <p>Coordination – Definition, Importance of Coordination in the Community</p> <p>PRACTICALS</p> <ol style="list-style-type: none"> 1. Visit to the Mandal office

H.SC-604(a): FAMILY DYNAMICS

Date	Academic Plan
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NOVEMBER 2018	<p>(a) Marriage definition - goals of marriage, Criteria for mate selection- rituals followed in various marital ceremonies like Hindu, Muslim and Christian - practice of dowry and its present status, legal provisions related to marriage and family</p> <p>Practicals:</p> <ol style="list-style-type: none"> 1. evaluation of matrimonial advertisements 2. Criteria for mate selection
December 2018	<p>Areas of marital adjustment Factors influencing marital adjustments. Pre marital and marital counseling, love and arranged marriage.</p> <p>Practicals:</p> <ol style="list-style-type: none"> 3. visit to family counseling centre 4. visit to old age home
January 2019	<p>Family definition - functions, types of families - nuclear and joint – characteristics of a family - changing trends in family system - values needed for better family relations. Importance of family life education</p> <p>Practicals:</p> <ol style="list-style-type: none"> 5. Role play on problems of the aged
February 2019	<p>(a) Stages in family life cycle-</p> <ol style="list-style-type: none"> i. Family in the beginning ii. Expanding family iii. Maturing family iv. Old age <p>(b) Preparation for parenthood - parenting styles (authoritarian, permissive and democratic styles) their impact on child development</p> <p>(c). Structure and forms of a family</p> <p>Practicals:</p> <ol style="list-style-type: none"> 6. panel discussions on social problems of adults
March 2019	<p>Status of women in the modern world education, employment and marriage, economic responsibilities and privileges.</p> <p>Additional Input: Legal provisions for women to ensure their safety.</p> <p>Practicals:</p> <ol style="list-style-type: none"> 7. picture talks on problems of adolescents

H.SC-605(a): FAMILY ATTIRE AND CONSUMER EDUCATION

Date	Academic Plan
NOVEMBER 2018	Criteria of selection of fabrics for garment <ol style="list-style-type: none"> a. Characteristics and needs b. Characteristics of fabrics c. Thread count d. Shrinkage, labels, reliable brands e. Size of budget f. Selecting garments for different age groups PRACTICALS <ol style="list-style-type: none"> 1. Shrinkage Test/ dimensional stability 2. Colour fastness for sunlight.
December 2018	Readymade clothing- selection and examination of garments for quality of cloth, shape of garments, fitting and price, comparison of readymade garments with homemade and tailor made- garments. PRACTICALS <ol style="list-style-type: none"> b. Making an inventory of one's own clothing. c. Planning wardrobe for two income groups.
January 2019	Consumer buying- budget, advertising, labeling and standards Factors which control price fashion- advertising- production cost- world condition- availability of raw materials PRACTICALS <ol style="list-style-type: none"> 2. Attaching sari fall 3. Picot 4. Renovating old garments
February 2019	Wardrobe planning: Introduction, wardrobe-definition. <ol style="list-style-type: none"> a) Aims, personal analysis, inventory & clothing extenders b) Principles of wardrobe planning – budget, occasion, climate, occupation, interest, number of family members, age, figure, fashion, quality, accessories etc. c) Principles applied to general figure problems and use of colour, prints, lines and checks. d) Renovation of old garments. PRACTICALS <ol style="list-style-type: none"> 5. Drafting, pattern laying, cutting and Construction of <ol style="list-style-type: none"> ii. Pillow cover iii. Kameez/ kurthi
March 2019	Household textiles: introduction, definition, classification <u>Table linen:</u> fabric count, size, finish, design suitability, serviceability, workmanship, use and care. <u>Towels and bathroom ensembles:</u> size, fiber construction, dimensions of pile, absorption, strength, compactness of background, colour co-ordination, use and care.

	<p><u>Bed linen</u>- types, brands, size, quality, attraction, fiber content, colour co-ordination, construction, weight, finish, warmth, comfort, workmanship, use and care.</p> <p>PRACTICALS</p> <p>6. Drafting, pattern laying, cutting and Construction of iv. Salvar/chudidar.</p>
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H.SC-606(a): HOUSE HOLD ECONOMICS

Date	Academic Plan
NOVEMBER 2018	<ul style="list-style-type: none"> • Basic terminology of economics, concept of household economics • Human wants- nature and classification, <p>Laws of consumption –Law of Demand, Law of equimarginal utility, Law of Diminishing marginal utility ,consumer surplus</p> <p>PRACTICALS</p> <p>1) Budget plans for different incomes</p> <ul style="list-style-type: none"> • Low income group • Middle income group • High income group
December 2018	<ul style="list-style-type: none"> • Consumer education • purchasing methods- guidelines for wise purchase,- • Consumer rights • Consumer Protection Act <p>consumer problems</p> <p>PRACTICALS</p> <p>2) Interview any head of the family and collect the information about their savings</p>
January 2019	<ul style="list-style-type: none"> • Values, goal, standards, and their inter-relationship • Standard of living- Definition factors influencing standard of living, ways of improving standard of living <p>PRACTICALS</p> <p>3) Prepare a check list of qualities of good home maker and evaluate your self</p>
February 2019	<ul style="list-style-type: none"> • Money management in the home • Budget- meaning, types and importance • Household financial records-Short term, Long term • Ways of Supplementing family income <p>PRACTICALS</p> <p>4) Prioritise your values and record the same</p>

March 2019

- Meaning and importance of savings
 - Types of savings in post office LIC, Chit funds and saving schemes of banks
- Family investments – Bonds, Stocks and Shares.

PRACTICALS

5) Residential stay/ home management cottage stay.



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DEPARTMENT OF HISTORY
ACADEMIC PLAN 2018-19
I B.A., Paper – I Semester - I
(History Ancient Indian History & Culture)

(from earliest times to 600 A.D) Paper code: HIS1101

Month	Unit	Topic covered
June 2018	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 2018	Unit-II	Vedic Age & Religious Reform Movements - Jainism and Buddhism
	Unit- III	Mauryan Empire - Ashoka's Dhamma, Art & Architecture, Significance & Downfall
August 2018	Unit - IV	Kushans –The Age of Satavahanas: Sangam Age: The Three Early Kingdoms (Chola, Chera& Pandya)
September 2018	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 2018	Unit-I	Harsha & his Times - Chalukyas of Badami& Eastern Chalukyas of Vengi.
December 2018	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 2019	Unit - IV	Delhi Sultanate (1290 to 1526 A.D.): Khilji's - The Tughlaqs - Decline & Disintegration of the Delhi Sultanate; Administration
February 2019	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

HISTORY PAPER- III

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

Month	Unit	Topic covered
June 2018	Unit-I	India from 1526 to 1707 A. D.: Emergence of Mughal Empire -- Sher Shah & Sur Interregnum– Rise of Marathas &Peshwas.
July 2018	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 2018	Unit - IV	Economic Policies of the British (1757-1857s: Spread of Modern Education
September 2018	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 2018	Unit-I	Social, Religious & Self-Respect Movements: – Emancipation of Women – Struggle Against Caste
December 2018	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 2019	Unit - IV	Freedom Struggle from 1920 to 1947: Gandhiji's Role in the National Movement – Revolutionary Movement –Subhas Chandra Bose.
February 2019	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 2018	Unit-I	Feudalism -Geographical Discoveries– Portugal
July 2018	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 2018	Unit - IV	The American Revolution (1776) — Bill of Rights, 1791
September 2018	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 2018	Unit-I	Andhra during 12th & 13th Centuries A.D.: Kakatiya's - The Age of Reddy Kingdoms
July 2018	Unit-II	Andhra between 14th & 16th Centuries A.D - Vijayanagara Empire – Decline and Downfall.
	Unit- III	The Qutb Shahis of Golkonda
August 2018	Unit - IV	East India Company's Authority over Andhra — Peasants and Tribal Revolts.
September 2018	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) II (Elective Paper) HIS6101

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

Month	Unit	Topic covered
November 2018	Unit-I	Industrial Revolution
December 2018	Unit-II	Unification Movements in Italy & Germany
January 2019	Unit-III	Communist Revolution in Russia
February 2019	Unit-IV	World War I- League of Nations
February 2019	Unit-V	World War II- Fascism & Nazism Results; The United Nations Organization

VIII-A-1 (Cluster Elective Paper -1) HCE20101
Cultural Tourism In Andhra Pradesh

Month	Unit	Topic covered
November 2018	Unit-I	Concepts of Tourism- Domestic & International Tourists
December 2018	Unit-II	Types of Tourism.
January 2019	Unit-III	History and Tourism - Heritage Sites
January 2019	Unit-IV	Planning and Development of A.P. Tourism: APTDC - Tourist Places in A.P.
February 2019	Unit-V	Modalities of Conducting Tourism:

VIII-A-2 (Cluster Elective Paper 2) HCE20102
Popular Movements in Andhra Desa (1848 To 1956 A.D.)

Month	Unit	Topic covered
November 2018	Unit-I	Social & Self Respect Movements; New Literary Movements:
December 2018	Unit-II	Freedom Movement in Andhra (1885-1920):
January 2019	Unit-III	Freedom Movement in Andhra (1920-1947)
January 2019	Unit-IV	Formation of separate Andhra State.
February 2019	Unit-V	Formation of Andhra Pradesh

Paper - VIII-A-3 (Cluster Elective Paper - 3) HCE20102
Contemporary History Of Andhra Pradesh (1956-2014)

Month	Unit	Topic covered
November 2018	Unit-I	Socio-Economic Changes in Andhra Pradesh
December 2018	Unit-II	Growth of Leftist Ideology
December 2018	Unit-III	Dalit Movement
January 2019	Unit-IV	Jai Telangana Movement (1969) - Mulki Rules - Legal Battle - Jai Andhra Movement (1972)
February 2019	Unit-V	Bifurcation of Andhra Pradesh

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ASD GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) KAKINADA
DEPARTMENT OF ECONOMICS
I BA-Economics (Micro Economics – Consumer Behavior)
ACADEMIC PLAN 2018-19

I SEMESTER

MONTH	Micro Economics – Consumer Behavior
Jun-18	Nature, definition and scope of Economics - Wealth, Welfare, Scarcity and modern definitions
Jul-18	Methodology in Economics - Micro & Macro; Static and Dynamic analysis; Normative and positive science, Inductive & Deductive methods; Partial and general Equilibrium.
Aug-18	Utility analysis: - cardinal approach-The Law of diminishing Marginal utility- The Law of Equi-Marginal Utility- concept of consumer's surplus
Sep-18	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 –
Oct-18	Samuelson's Revealed preference theory

ASD GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) KAKINADA
DEPARTMENT OF ECONOMICS
I BA-Economics (Micro Economics - Production and Price Theory)
ACADEMIC PLAN 2018-19

II SEMESTER

MONTH	Micro Economics - Production and Price Theory
Nov-18	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-18	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-19	Monopolistic competition - price determination - Oligopoly - Kinked demand curve approach.
Feb-19	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-19	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

ASD GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) KAKINADA
DEPARTMENT OF ECONOMICS
II BA-Economics (Macro Economics-I)
ACADEMIC PLAN 2018-19

III SEMESTER

MONTH	Macro Economics-I
Jun-18	Meaning, definition of Macro Economics - Importance of Macro Economics- Difference between Micro and Macro Economics - Paradox of Macro Economics –Limitations
Jul-18	National Income - Definitions, Concepts of National Income - Measurement of National Income - Circular flow of Income in Two, Three and Four Sector Economy.
Aug-18	Classical theory of Employment – Say’s Law of Markets-Keynesian Theory of Employment
Sep-18	Consumption function – Investment Function MEC, concepts of multiplier and accelerator
Oct-18	Meaning and Functions of Money – Classification of Money – Gresham’s Law – RBI classification of Money. Theories of Money

ASD GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) KAKINADA
DEPARTMENT OF ECONOMICS
II BA-Economics (Macro Economics-II)
ACADEMIC PLAN 2018-19

IV SEMESTER

MONTH	Macro Economics-II
Nov-18	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-18	Importance of International Trade -Regional and International Trade – Theories of Trade – Classical – Adam Smith and David Ricardo, Neo – Classical Theory of Trade – Heacksher and Ohlin. Leontief Paradox -
Jan-19	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-19	Insurance –Life Insurance, Concept of General Insurance Non-Bank Financial Institutions – Types of NBFIs - Factors contributing to the Growth of NBFIs –
Mar-19	Money market – Defects of Indian money market

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DEPARTMENT OF ECONOMICS
III BA-Economics
ACADEMIC PLAN 2018-19

V SEMESTER

MONTH	Economic Development & Indian Economy
Jun-18	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-18	Sustainable development – Balanced and unbalanced growth – Choice of techniques Labour intensive and capital intensive methods.
Aug-18	Basic features of the Indian Economy – Natural Resources – Important Demographic features
Sep-18	Concept of Population Dividend – Population Policy. National Income in India – trends and composition – poverty, inequalities and Unemployment – Measures taken by the Government – MGNREGS.
Oct-18	Economic reforms – liberalization, privatization and globalization – concept of inclusive growth

ASD GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) KAKINADA
DEPARTMENT OF ECONOMICS
III BA-Economics
ACADEMIC PLAN 2018-19

MONTH	Indian and Andhra Pradesh Economy
Jun-18	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-18	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-18	Disinvestment in India – FEMA – Foreign direct investment – Services Sector in India – Reforms in Banking and Insurance – IT, Education and Health.
Sep-18	Planning in India Economy – Objectives of Five YEAR,s plans – Review of Five YEAR,s plans –
Oct-18	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.

ASD GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) KAKINADA
DEPARTMENT OF ECONOMICS
III BA-Economics
ACADEMIC PLAN 2018-19

VI SEMESTER

MONTH	Agricultural Economics
Nov-18	Nature and Scope of Agricultural Economics. Factors affecting agricultural development: technological, institutional and general. Interdependence between agriculture and industry.
Dec-18	Concept of production function : input-output and product relationship in farm production
Jan-19	Growth and productivity trends in Indian agriculture with special reference to Andhra Pradesh. Agrarian reforms and their role in economic development.
Feb-19	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-19	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

ASD GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) KAKINADA
DEPARTMENT OF ECONOMICS
III BA-Economics
ACADEMIC PLAN 2018-19

MONTH	Agribusiness Environment in AP
Nov-18	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-18	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-19	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-19	Growth performance of major agricultural commodities in Andhra Pradesh – Production and processing trends in exports and imports of major agricultural commodities.
Mar-19	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 2018-19

MONTH	Agricultural output Marketing
Nov-18	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-18	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-19	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-19	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-19	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 2018-19

MONTH	PROJECT
Nov-18	Project
Dec-18	
Jan-19	
Feb-19	
Mar-19	

H. Sivan Chala

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**A.S.D Government Degree College for Women (Autonomous):
Kakinada**

Department of Political Science

Annual Academic plan 2018-19

Month	SEM – I – BASIC CONCEPTS OF POLITICAL SCIENCE	
June -2018	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-2018	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-2018	Unit – III	Nationals and Nationalisms 1. Conceptual distinction between nationality and nation 2. Varieties of nationalism: Culture and civic nationalism
August-2018	Unit – IV	Rights and citizenship 1. Evolution of rights: civil and social rights 2. Citizenship: Universal and differential citizenship
September-2018	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-2018	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-2018	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
December-2018	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
January-2019	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-2018	Unit – I	<p>The making of the constitution</p> <ol style="list-style-type: none"> 1. The ideological legacy of the Indian national movement on the constituent assembly 2. The nature and composition of the constituent assembly
July-2018	Unit – II	<p>Philosophical premises of the Indian Constitution</p> <ol style="list-style-type: none"> 1. Preamble: The underlying values of the Indian constitution 2. Salient features of the constitution of India
July-2018	Unit – III	<p>Fundamental rights and directive principles of state policy</p> <ol style="list-style-type: none"> 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-2018	Unit – IV	<p>Indian federalism</p> <ol style="list-style-type: none"> 1. Unitary and federal features in the Indian constitution 2. Tension areas between the union and state governments
September-2018	Unit – v	<p>Working of the Indian constitution</p> <ol style="list-style-type: none"> 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-2018	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-2018	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-2019	Unit – III	Religion and politics 1. Competing communalisms: Majoritarian and Majoritarian 2. Debates on secularism: role of the state towards religion
February-2019	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-2018	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-2018	Unit – II	Renaissance though 1. Ram Mohan Roy: Religious and social reform 2. Panditramabai: Gender
July-2018	Unit – III	Early nationalism 1. Dadabai Nouroji : Drain theory and poverty 2. Renadey MG: The role of the state and religious reform
August-2018	Unit – IV	Religious nationalism 1. Savarkar: Hindustan or Hindu culture nationalism 2. Mohammed Iqbal: Islamic communitarian nationalism
September-2018	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-2018	Unit – I	Classical western political thought 1. Plato: Theory of forms, Critique of democracy, Justice 2. Aristotle: Citizenship, State, Justice, Virtue
July-2018	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-2018	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-2018	Unit – IV	Liberal democratic thought 1. Jermy Bentham: Utilitarianism 2. John stuart mill: Individual liberty
September-2018	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-2018	Unit – I	Evolution of Local self – government in India 1. Constitutional provisions on local self-government 2. Recommendations of Balwantrai Mehta and Ashok Mehta committees on local self-government
December-2018	Unit – II	Importance of constitutional amendments 1. 73 rd amendment – rural local bodies, Basic features 2. 74 th amendment – Urban local bodies, Basic features
December-2018	Unit – III	Structure and functions of panchayati raj in A.P 1. Gram panchayat 2. Mandalparishad 3. Zillaparishad 4. Municipalities nagar panchayat and municipal corporations
January-2019	Unit – IV	Structure and functions of urban local bodies in A.P 1. Nagarapanchayats 2. Municipalities 3. Municipal corporations
February-2019	Unit – v	Role of leadership and emerging challenges 1. Emerging patterns of leadership 2. Problems of autonomy: Financial and Administrative spheres

Month	SEM – VI – INTERNATIONAL RELATIONS (P – VIII)	
November-2018	Unit – I	<p>Basic concepts of International relations</p> <ol style="list-style-type: none"> 1. Meaning, Nature, Scope of International relations 2. Balance of powers, National Interests, Collective security, Diplomacy
December-2018	Unit – II	<p>Approaches to the study of International relations</p> <ol style="list-style-type: none"> 1. Idealism – Woodrow Wilson 2. Classical realism – Hans Morgenthau
December-2018	Unit – III	<p>Phases of International relations (1914 – 1945)</p> <ol style="list-style-type: none"> 1. Causes for the First World War 2. Causes for Second World War
January-2019	Unit – IV	<p>Phases of International relations (1945 on words)</p> <ol style="list-style-type: none"> 1. Origin of first cold war 2. Rise and fall of détente 3. Origins and the end of second cold war
February-2019	Unit – v	<p>International Organisation</p> <ol style="list-style-type: none"> 1. The role of UNO in the protection of International peace 2. Problems of the third world: Struggle for new International Economic Order

Month	SEM – VI – INDIAN FOREIGN POLICY (P – IX)	
November-2018	Unit – I	Evolution of Indian Foreign policy 1. Determinants of Indian foreign policy 2. Continuity and change in Indian foreign policy
December-2018	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-2018	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-2019	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-2018	Unit – I	Concepts of Globalization 1. Economic Concepts of Globalization 2. Political Concepts of Globalization
December-2018	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-2018	Unit – III	National state and globalization 1. The role of nation state in the context of globalization 2. Consequences of globalization – Rise of Inequalities with in and across nation
January-2019	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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DEPARTMENT OF COMMERCE

ANNUAL ACADEMIC PLAN 2018-2019

MONTH	TOPIC
JUNE 2018	UNIT1: Introduction - Need for Accounting – Definition – Objectives, – Accounting Concepts and Conventions – GAAP - Accounting Cycle - Classification of Accounts and its Rules –
JULY 2018	Book Keeping and Accounting - Double Entry Book-Keeping - Journalizing - Posting to Ledgers, Balancing of Ledger Accounts Subsidiary Books: Types of Subsidiary Books - Cash Book, Three-column Cash Book- Petty Cash Book.
AUGUST 2018	Trial Balance and Rectification of Errors: Preparation of Trial balance - Errors – Meaning – Types of Errors – Rectification of Errors – Suspense Account. Bank Reconciliation Statement: Need for Bank Reconciliation - Reasons for Difference between Cash Book and Pass Book Balances-
SEP 2018	Preparation of Bank Reconciliation Statement - Problems on both Favourable and Unfavourable Balance. Final Accounts: Preparation of Final Accounts: Trading account – Profit and Loss account – Balance Sheet – Final Accounts with Adjustments

SEMESTER-I- ACCOUNTING-I

SEMESTER-I Business Organization and Management

MONTH	TOPIC
JUNE 2018	Introduction Concepts of Business, Trade, Industry and Commerce: 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
JULY 2018	Forms of Business Organizations: 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
AUGUST 2018	Company Incorporation: 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.
SEP 2018	Management: Meaning Characteristics - Fayol's 14 Principles of Management - Administration Vs Management - Levels of Management Functions of Management: Different Functions of Management - Meaning – Definition – Characteristics Merits and Demits of Planning - Principles of Organization – Line and staff of Organization

SEMESTER-I Business Economics-I

MONTH	TOPICS
JUNE 2018	Introduction: Meaning and Definitions of Business Economic- Nature and Scope of Business Economics - Micro and Macro Economics and their Interface.
JULY 2018	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.
AUGUST 2018	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
SEP 2018	-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

MONTH	TOPIC
JUNE 2018	Entrepreneurship: Definition and Concept of entrepreneurship – Entrepreneur- Characteristics – Classification of Entrepreneurs –Role of Entrepreneurship in Economic Development –Start-ups.
JULY 2018	Idea Generation and Project Formulation: Ideas in Entrepreneurships – Sources of New Ideas – Techniques for Generating Ideas –
AUGUST 2018	Preparation of Project Report –Contents; Guidelines for Report preparation – Project Appraisal Techniques –Economic Analysis-Financial Analysis-Market Analysis.
SEP 2018	Institutions Supporting and Taxation Benefits: 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

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MONTH	TOPIC
NOV 2018	Depreciation: Meaning and Causes of Depreciation - Methods of Depreciation: Straight Line – Written Down Value –Annuity and Depletion Method.
DEC 2018	Provisions and Reserves: 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.
JAN2019	Bills of Exchange: Meaning of Bill – Features of Bill – Parties in the Bill Discounting of Bill – Renewal of Bill – Entries in the Books of Drawer and Drawee
FEB2019	Consignment Accounts: 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
March 2019	Joint Venture Accounts: 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
NOV 2018	Introduction: Techniques of maximization of output, Minimization of costs
DEC 2018	and maximization of profit-Scale of production-Economies and Dis-economies of Scale-Cost of production-Cobb and Douglas.
JAN2019	Market Structure-I: Concept of Market – Classification of Markets -Perfect Competition– Characteristics – Equilibrium Price -Monopoly – Characteristics – Equilibrium Under Monopoly.
FEB2019	Market Structure-II: Monopolistic Competition-Product differentiation-Profit maximization- Price and output in the short and Long- Run-Oligopoly-Kinked Demand Curve- Marginal Productivity- Theory of Distribution.\
March 2019	Unit-V: National Income: Meaning – Definition – Measurements of National Income - Concepts of National Income -Components of National Income-Problems in Measuring National Income

SEMESTER-II Business Environment

MONTH	TOPIC
NOV 2018	Overview of Business Environment: Business Environment – Meaning – Characteristics – Scope -Macro and Micro Dimensions of Business Environment - Environmental Analysis.
DEC 2018	Economic Environment: Economic Environment – Nature of the Economy – Structure of Economy – Economic Policies & Planning the Economic Condition – NITI Ayog – National Development Council – Five Year Plans
JAN2019	Economic Policies: Economic Reforms and New Economic Policy – New Industrial Policy – Competition Law – Fiscal Policy – Objectives and Limitations – Monetary Policy and RBI
FEB2019	Social, Political and Legal Environment: Concept of Social Responsibility of Business towards Stakeholders- Demonetisation, GST and their Impact - Political Stability – LegalChanges.
March 2019	Global Environment : Globalization – Meaning – Role of WTO – WTO Functions - IBRD– Trade Blocks, BRICS, SAARC, ASEAN in Globalization.

DEPARTMENT OF COMMERCE

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SEMESTER-III-Corporate Accounting

MONTH	TOPIC
JUNE 2018	Accounting for Share Capital – 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
JULY 2018	Issue of Debentures – difference between share and debenture – types of debentures - Employee Stock Options – Accounting Treatment for Convertible and Non-Convertible debentures
AUGUST 2018	Valuation of Goodwill and Shares: 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
SEP 2018	Company Final Accounts: Preparation of Final Accounts – Adjustments relating to preparation of final accounts – Profit and loss account and balance sheet. Provisions of the Companies Act, 2013 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 2018	Introduction: Meaning & Definition of Bank – Functions of Commercial Banks – Credit Creation with Examples - Kinds of Banks – Central Banking Vs. Commercial Banking.
JULY 2018	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 2018	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.
SEP 2018	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 2018	: Introduction to Statistics: Definition, importance and limitations of statistics - Collection of data - Schedule and questionnaire – Frequency distribution – Tabulation - Diagrammatic and graphic presentation of data using Computers
JULY 2018	Measures of Central Tendency: Types of Averages – Qualities of Good Average - Mean, Median, Mode, and Median based Averages-Geometric Mean – Harmonic Mean
AUGUST 2018	Measures of dispersion and Skewness: Properties of dispersion – Range - Quartile Deviation –Mean Deviation- Standard- Deviation- Coefficient of Variation Skewness and Kurtosis: 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
SEP 2018	Measures of Relation: Meaning and use of correlation – Types of correlation-Karlpearson’s correlation-coefficient –Spearman’s Rank correlation

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SEMESTER-IV INCOME TAX

MONTH	TOPIC
JUNE 2018	Introduction: to Income Tax Law - Basic concepts: Income, Person, Assesse, Assessment year, Agricultural Income, Capital and revenue, Residential status, Income exempt from tax
JULY 2018	Income from salary: Allowances, perquisites, profits in lieu of salary, deductions from salary income, computation of salary income and qualified savings eligible for deduction u/s 80C
AUGUST 2018	Income from House Property: Annual value, let-out/self occupied/ deemed to be let-out house, deductions from annual value - computation of income from house property
SEP 2018	Income from Capital Gains (including problems on long term capital gains)- Income from other sources - (from Individual point of view) - chargeability - and assessment Computation of total income of an individual - Deductions under section - 80

SEMESTER-IV BUSINESS LAW

MONTH	TOPIC
JUNE 2018	Contract Meaning and Definition of Contract-Essential elements of valid Contract -Valid, Void and Voidable Contracts - Indian Contract Act, 1872
JULY 2018	Offer and Acceptance Definition of Valid Offer, Acceptance and Consideration -Essential elements of a Valid Offer, Acceptance and Consideration
AUGUST 2018	Capacity of the Parties and Contingent Contract Rules regarding to Minors contracts - Rules relating to contingent contracts - Different modes of discharge of contracts-Rules relating to remedies to breach of contract.
SEP 2018	Sale of Goods Act 1930 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

MONTH	TOPIC
JUNE 2018	Non-Trading/ Service Organizations: Concept -Types of Service Organizations-Section (8) and other Provisions of Companies Act, 2013. Electricity Supply Companies: Accounts of Electricity supply companies: Double Accounting system-Revenue Account - Net revenue Account - Capital Account - General Balance Sheet
JULY 2018	Bank Accounts Bank Accounts - Books and Registers to be maintained by Banks – Banking Regulation Act, 1969 -Legal Provisions Relating to preparation of Final Accounts
AUGUST 2018	Insurance Companies Life Insurance Companies -Preparation of Revenue Account, Profit and Loss Account, Balance Sheet (including problems)-LIC Act, 1956
SEP 2018	General Insurance Principles - Preparation of final accounts - with special reference to fire and marine insurance (theory only)-GICAct, 1972.

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SEMESTER-V COST ACCOUNTING

MONTH	TOPIC
JUNE 2018	Introduction: Cost Accounting: Definition – Features – Objectives – Functions – Scope – Advantages and Limitations - Management Accounting: Features– Objectives–Functions – Elements of Cost –Preparation of Cost Sheet
JULY 2018	Material and Labour Cost: 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 Method only
AUGUST 2018	Job Costing and Batch Costing: Definition and Features of Job Costing – Economic Batch Quantity (EBQ) –Preparation of Job Cost Sheet–Problems on Job Cost Sheet. Financial Statement Analysis and Interpretation: Financial Statements- Features, Limitations. Need, Meaning, Objectives, and Process of Financial Statement Analysis-
SEP 2018	Comparative Analysis – Common Size Analysis and Trend Analysis Marginal Costing: 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 2018	Introductory: Leadership - Traits, Skills and Styles- Leadership Development - Qualities of a Good Leader.
JULY 2018	Decision-Making and Leadership: Leadership for Sustainability Power, Influence, Impact -
AUGUST 2018	Leadership Practices - Organizations and Groups: Organizational Culture and Leadership - Leadership in Business Organizations
SEP 2018	Special Topics: 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 2018	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 2018	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 2018	containing Alcohol - Tax on Petroleum products - Tax on Tobacco products - Taxation Inter-State Goods and Services Tax: Major advantages of IGST Model – Interstate Inter-State Goods and Services Tax: Major advantages of IGST Model - Interstate Goods
SEP 2018	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 2018	<p>The Earth: 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>India – Agriculture: Land Use - Soils - Major crops – Food and Non-food Crops</p>
JULY 2018	<p>Importance of Agriculture – Problems in Agriculture – Agriculture Development.</p> <p>India – Forestry: Forests – Status of Forests in Andhra Pradesh – Forest (Conservation) Act, 1980 – Compensatory Afforestation Fund (CAF) Bill, 2015</p>
AUGUST 2018	<p>- Forest Rights Act, 2006 and its Relevance – Need for protection of Forestry</p> <p>India – Minerals and Mining: Minerals – Renewable and non Renewable – Use of Minerals – Mines – Coal, Barites, etc. – Singareni Coal mines and Mangampeta Barites - District- wise Profile.</p>
SEP 2018	<p>India – Water Resources – Rivers: 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

MONTH	TOPIC
JUNE 2018	: Introduction: Concepts of Marketing: Product Concept – Selling Concept - Societal Marketing Concept – Marketing Mix - 4 P’s of Marketing – Marketing Environment.
JULY 2018	Consumer Markets and Buyer Behavior: Buying Decision Process – Stages – Buying Behavior – Market Segmentation – Selecting Segments – Advantages of Segmentation.
AUGUST 2018	Product Management: Product Life Cycle - New products, Product mix and Product line decisions - Design, Branding, Packaging and Labeling. Pricing Decision: Factors influencing price determination, Pricing strategies: Skimming and Penetration pricing.
SEP 2018	Promotion and Distribution: Promotion Mix - Advertising - Publicity – Public relations - Personal selling and Direct marketing - Distribution Channels – Online marketing- Global marketing.

SEMESTER VI-AUDITING

MONTH	TOPIC
JUNE 2018	Auditing: Meaning – Objectives – Importance of Auditing – Auditing as a Vigil Mechanism – Role of Auditor in checking corporate frauds.
JULY 2018	<p>Types of Audit: Based on Ownership and time - Independent, Financial, Internal, Cost, Tax, Government, Secretarial audits.</p> <p>Planning of Audit: Steps to be taken at the commencement of a new audit</p>
AUGUST 2018	<p>- Audit programme - Audit note book - Internal check, internal audit and internal control.</p> <p>Vouching and Investigation: Vouching of cash and trading transactions - Investigation, Auditing vs. Investigation</p>
SEP 2018	<p>Company Audit and Auditors Report: Auditor's Qualifications – Appointment and Reappointment – Rights, duties, liabilities and disqualifications - Audit report: Contents – Preparation - Relevant Provisions of Companies Act, 2013.</p>

SEMESTER VI-MANAGEMENT ACCOUNTING

MONTH	TOPIC
JUNE 2018	Management Accounting: Interface with Financial Accounting and Cost Accounting - Financial Statement analysis and interpretation: Comparative analysis – Common size analysis and trend analysis
JULY 2018	Ratio Analysis: Classification, Importance and limitations - Analysis and interpretation of Accounting ratios - Liquidity, profitability, activity and solvency ratios
AUGUST 2018	Fund Flow Statement: Concept of fund: Preparation of funds flow statement. Uses and limitations of funds flow analysis Cash Flow Statement: Concept of cash flow – Preparation of cash flow statement - Uses and limitations of cash flow analysis
SEP 2018	Break-Even Analysis and Decision Making: Calculation of Break-even point - Uses and limitations - Margin of safety – Make/Buy Decision - Lease/own Decision

SEMESTER VI-TALLY WITH GST

MONTH	TOPIC
JUNE 2018	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 –
JULY 2018	Single and multiple ledgers, altering ledgers, configure stock ledger, GST rate allocation to stocks. GST Invoices – Creating New Voucher types,
AUGUST 2018	Customizing the existing voucher types with applicable GST rates, alteration of vouchers, deletion of vouchers, input tax credit on purchase vouchers.
SEP 2018	GST Returns – Regular monthly filing of returns composition, quarterly filling returns, generation for returns Form GSTR-1, Form GSTR-2 and Forjrm GSTR – 3. Payment of GST taxes online, reverse charge mechanism, records to be maintained.

SEMESTER VI-Event Management

MONTH	TOPIC
JUNE 2018	Event Concept: Corporate Events and Customer's needs- Type of events-corporate hospitality-Exhibitions-Trade Fair-Conferences-
JULY 2018	Business and Government Meets-Corporate event packages Outdoor Events: Logistics, Types of Outdoor events, Risk Management-Health and Safety, Marketing and Sponsorship
AUGUST 2018	HR Management, Programming and Entertainment Celebrity Events: Launches, Fashion Show, National Festivals and High-Profile charity events- Liaison with agents, Contract Negotiations,
SEP 2018	Client benefits, Liaison with Govt Departments.

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