

VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

(Re – accredited with 'A' Grade by NAAC)

VIRUDHUNAGAR

31.03.2017

MINUTES OF THE EIGHTH ACADEMIC COUNCIL MEETING

The Eighth Academic Council Meeting of Virudhunagar Hindu Nadars' Senthikumara Nadar College (Autonomous) Virudhunagar was held on 31st March, 2017 at 11 a.m. in K.C.S.Rathinasamy Nadar - R.Mariammal Memorial Building.

The Chairperson and Principal welcomed the gathering

The Chairperson also introduced Dr. M. Lellis Thivagar, Professor and Head, School of Mathematics, Madurai Kamaraj University Madurai, Dr. K. Anbuselvi, Principal, A.P.A. College of Arts and Culture, Palani and Dr. S. Nehru, Principal, Mannar Thirumalai Naicker College, Madurai, Mr. P.K. Arunachalam, Head, Department of Tamil and Mr. S. Baskaran, Head, Department of Commerce who were inducted as new members to the Academic Council.

The Principal presented before the Council the progress report on Autonomy.

Four subjects were presented for resolution

Subject 1:

Approval for the syllabi for the UG third year subjects and the subject code allotted to each subject passed in the various Board of Studies Meetings.

The Principal invited the Chairperson of the respective Board of Studies to move the subject for the approval of the Academic Council.

Mr. P.K. Arunachalam, Chairperson, Board of Studies of B.A. Tamil moved the subject of approval by the Academic Council for the revisions in the third year syllabus for B.A. Tamil passed in the Board of Studies meeting held on 07.03.2017 and also for the subject code allotted to each subject as given in Annexure I.

Dr. R. Selvam, Chairperson, Board of Studies of B.A. English moved the subject of approval by the Academic Council for the revisions in the third year syllabus for B.A. English

and the syllabus for the Self Learning subject *Children's Literature* passed in the Board of Studies meeting held on 07.03.2017 and also for the subject code allotted to each subject as given in Annexure I.

Dr. M. Mariappan, Chairperson, Board of Studies of B.A. Economics moved the subject of approval by the Academic Council for the revisions in the third year syllabus for B.A. Economics passed in the Board of Studies meeting held on 07.03.2017 and also for the subject code allotted to each subject as given in Annexure I.

Mr. S. Baskaran, Chairperson, Board of Studies of B.Com. and B.Com. CA moved the subject of approval by the Academic Council for the revisions in the third year syllabus for B.Com. and B.Com CA passed in the Board of Studies meeting held on 07.03.2017 and also for the subject code allotted to each subject as given in Annexure I.

Dr.S.Sekar Subramanian, Chairperson, Board of Studies of B.B.A. moved the subject of approval by the Academic Council for the revisions in the third year syllabus for B.B.A. and the syllabus for the Self learning Subject *Company Organizations* passed in the Board of Studies Meeting held on 07.03.2017 and also for the subject code allotted to each subject as given in Annexure I.

Mr. R.Rameshbabu, Chairperson, Board of Studies of B.Sc. Mathematics moved the subject of approval by the Academic Council for the revisions in the third year syllabus for B.Sc. Mathematics passed in the Board of Studies meeting held on 07.03.2017 and also for the subject code allotted to each subject as given in Annexure I.

Dr. S. Rajasingh, Chairperson, Board of Studies of B.Sc. Physics moved the subject of approval by the Academic Council for the revisions in the third year syllabus for B.Sc. Physics passed in the Board of Studies meeting held on 07.03.2017 and also for the subject code allotted to each subject as given in Annexure I.

Dr. R. Boominathan, Chairperson, Board of Studies of B.Sc. Chemistry moved the subject of approval by the Academic Council for the revisions in the third year syllabus for B.Sc. Chemistry passed in the Board of Studies meeting held on 07.03.2017 and also for the subject code allotted to each subject as given in Annexure I.

Dr. A. Rajendran, Chairperson, Board of Studies of B.Sc. Botany moved the subject of approval by the Academic Council for the revisions in the third year syllabus for B.Sc. Botany passed in the Board of Studies meeting held on 07.03.2017 and also for the subject code allotted to each subject as given in Annexure I.

Mr. V. Shanmugavelu, Chairperson, Board of Studies of B.Sc. Zoology moved the subject of approval by the Academic Council for the revisions in the third year syllabus for B.Sc. Zoology passed in the Board of Studies meeting held on 07.03.2017 and also for the subject code allotted to each subject as given in Annexure I.

Dr. T. Kathirvalavakumar, Chairperson, Board of Studies of B.Sc. Computer Science, moved the subject of approval by the Academic Council for the revisions in the third year syllabus for B.Sc. Computer Science passed in the Board of Studies meeting held on 07.03.2017 and also for the subject code allotted to each subject as given in Annexure I.

Dr. T. Durai Anand, Chairperson, Board of Studies of B.Sc. Microbiology, moved the subject of approval by the Academic Council for the revisions in the third year syllabus for B.Sc. Microbiology passed in the Board of Studies meeting held on 07.03.2017 and also for the subject code allotted to each subject as given in Annexure I.

Mr. D. Rajkumar, Chairperson, Board of Studies of BCA moved the subject of approval by the Academic Council for the revisions in the third year syllabus for B.C.A. passed in the Board of Studies meeting held on 07.03.2017 and also for the subject code allotted to each subject as given in Annexure I.

Mr. Z. Ramya Sushil, Chairperson, Board of Studies of B.Sc. Information Technology moved the subject of approval by the Academic Council for the revisions in the third year syllabus for B.Sc. Information Technology passed in the Board of Studies meeting held on 07.03.2017 and also for the subject code allotted to each subject as given in Annexure I.

Resolution

The subject was considered and resolved to approve the syllabi for the third year Under Graduate courses and the Subject Code allotted to each subject passed in the various *Board of Studies Meetings*.

Subject 2:

Approval for the change of the name of the course of M.Sc. Computer Science and Information Technology as M.Sc. Information Technology and the approval for the syllabus and subject codes for the first year and second year M.Sc. Information Technology.

Mr. Z. Ramya Sushil, Chairperson, Board of Studies of M.Sc. Information Technology moved the subject.

Resolution

The subject was considered and resolved to approve the change of the name of the course as *M.Sc. Information Technology and also the syllabus for the first year and the second year M.Sc. Information Technology and the subject code allotted to each subject as given in Annexure I.*

Subject 3:

Approval for the syllabus and the subject codes for the second year B.A.History & M.A.History, B.C.A. and B.Voc. course on Environmental Assessment and Remediation.

The Principal invited the Chairperson of the respective Board of Studies to move the subject for the approval of the Academic Council.

Dr. G.Ravi, Chairperson, Board of Studies of B.A. History & M.A. History moved the subject of approval by the Academic Council for the revisions in the second year syllabus for B.A. History & M.A. History passed in the Board of Studies meeting held on 07.03.2017 and the subject code allotted to each subject as given in Annexure I.

Mr. D. Rajkumar, Chairperson, Board of Studies of BCA moved the subject of approval by the Academic Council for the revisions in the second year syllabus for B.C.A., necessitated by the introduction of Part I Tamil and Part II English in the curriculum of second B.C.A., passed in the Board of Studies meeting held on 07.03.2017 and also for the subject code allotted to each subject as given in Annexure I.

Dr. G. Mahendra Perumal, Co-ordinator - B.Voc. Programme moved the subject of approval by the Academic Council for the second year syllabus for B.Voc. Programme on Environmental Assessment and Remediation passed in the Board of Studies meetings held on 28.03.2017 and also for the subject code allotted to each subject as given in Annexure I.

Resolution

The subject was considered and resolved to approve the syllabi for the second year B.A. History, M.A. History, B.C.A. and the Vocational course and the Subject Code allotted to each subject passed in the various Board of Studies Meetings.

Subject 4:

Approval for the syllabus and the subject code for the common Self Learning subject *Human Rights*.

Dr.G.Ravi, Chairperson, Board of Studies for the common Self Learning subject *Human Rights* moved the subject.




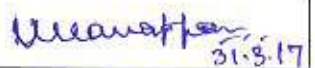


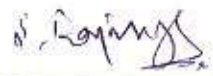

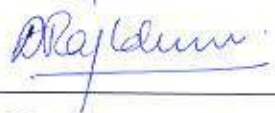
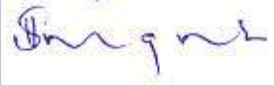


Resolution

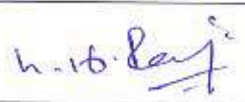



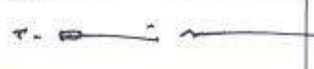

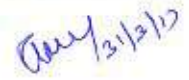

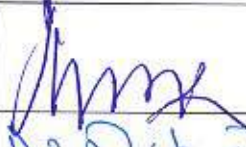

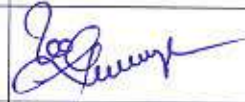
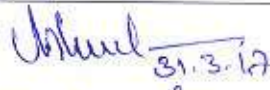
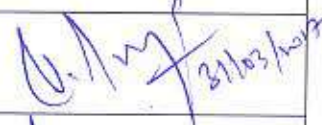



The subject was considered and resolved to approve the syllabus for the common Self Learning subject *Human Rights* and also the subject code allotted to it.

All the resolutions were unanimously passed.

Out of 37 members, 28 turned out for the meeting and 9 members got permission to absent.
Mr. R. Palaniappan, the Member Secretary proposed vote of thanks and the meeting came to an end.

Members Present:

S.No.	Name and Designation	Signature
1.	Mr.P.K.Arunachalam, M.A.,M.Phil.	
2.	Dr. K. Sridhar, M.A.,M.Phil.,Ph.D.,P.G.D.J.M.C	
3.	Dr. R. Selvam, M.A.,M.Phil.,Ph.D.	
4.	Dr. M. Mariappan, M.A.,M.Phil.,P.G.D.C.A.,Ph.D.	
5.	Dr. G. Ravi, M.A.,M.Phil.,M.L.I.S.,Ph.D.	
6.	Mr. R.Rameshbabu, M.Sc.,M.Phil.	
7.	Dr. S. Raja Singh, M.Sc.,M.Phil.,Ph.D.	
8.	Dr. R. Boominathan, M.Sc.,M.Phil.,Ph.D.	
9.	Dr. A. Rajendran, M.Sc.,M.Phil.,Ph.D.	
10.	Mr. V. Shanmugavelu, M.Sc.,M.Phil.	
11.	Dr. T. Kathirvalavakumar, M.Sc.,PGDCA.,M.Phil.,Ph.D.	
12.	Mr. S.Baskaran, M.Com.,M.Phil.,ACMA.,MMA.,GDOR.,PGDCA.,CA (Inter).	

13.	Dr. G. Hezekiah Raja, M.Com.,M.Phil.,PGDCA.,Ph.D.	
14.	Dr.S.Sekar Subramanian, M.Com.,M.Phil.,MBA.,Ph.D.	
15.	Dr.B.Pavala Kumar, B.Tech.,M.B.A.,M.Sc.,P.G.D.C.A.,Ph.D.	
16.	Mr. Z. Ramya Sushil, M.Sc., M.B.A.,M.Phil., M.Tech.	
17.	Dr. T. Durai Anand, M.Sc.,M.Phil.,Ph.D.	
18.	Mr. D. Raj Kumar, M.C.A., M.Phil.	
19.	Dr.T. Murugesan, MPES.,M.Phil.,PGDY.,PGDSM.,Ph.D.	
20.	Dr. G. Mahendra Perumal, M.Sc., B.Ed., Ph.D.	
21.	Dr. J. Samuel Kirubahar, M.A.,M.Phil.,Ph.D.,B.Ed.	
22.	Dr. N. Prithvikumaran, M.Sc.,M.Phil.,Ph.D.,PBDCSA.	
23.	Mr. K.C.Gurusamy, B.Sc.	
24.	Director Self-financing Courses (Ex-officio)	
25.	Mr. R. Palaniappan, M.C.A.,M.Phil. Controller of Examinations	
26.	Dr. A. Sarathi, M.Sc.,M.Phil.,Ph.D. Dean - Internal Exams & Joint Controller of Examinations	
27.	Dr. P. Sami, M.Sc., M.Phil.,Ph.D. Dean - Student Services	
28.	Dr. P.Sundara Pandian, M.Com.,M.A.,M.B.A.,M.A., M.Sc., M.Phil.,PGDPM&IR.,PGDCA.,DLLAL.,Ph.D.	

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Virudhunagar - 626 001

Course Name : B.A.
Discipline : Tamil Literature

Sem	Part	Subjec	Hrs	Cr	Int.+Ext.= Total	Subject Code	Status
V	Core 9	சிற்றிலக்கியம்	5	5	25+75=100	U2TAC51	Revised
	Core 10	பொருள் இலக்கணம் - புறப்பொருள் வெண்பா மாலை	5	5	25+75=100	UITAC52	No change
	Core 11	மொழியியல் ஓர் அறிமுகம்	5	5	25+75=100	U2TAC53	Revised
	Core 12	தமிழ் இலக்கிய வரலாறு	5	5	25+75=100	U2TAC54	Revised
	Elective 1	சுற்றுலாவியல்	6	5	25+75=100	UITAE51	No change
	SBE 4	பணிவாய்ப்புத் திறன்	2	2	25+75=100	UITAS51	No change
	NME 1	ஆளுமைத் திறன்	2	2	25+75=100	UITAN51	No change

VI	Core 13	சங்க இலக்கியம்	6	4	25+75=100	U2TAC61	Revised
	Core 14	இலக்கியத் திறனாய்வுக் கொள்கைகள்	6	4	25+75=100	U2TAC62	Revised
	Elective 2	தமிழகக் கோயிற்கலைகள்	6	5	25+75=100	U2TAE61	Revised
	Elective 3	திரைப்படக் கலையும் விமர்சனமும்	6	5	25+75=100	UITAE62	No change
	SBE 5	பேச்சுக் கலை	2	2	25+75=100	UITAS61	No change
	SBE 6	படைப்புத்திறன்	2	2	25+75=100	UITAS62	No change
	NME 2	தமிழ் இலக்கிய வரலாறு	2	2	25+75=100	UITAN61	No change

Self Learning Courses:

Subject	Semester	Credit	Ext =Tot	Subject Code
Human Rights	IV	5	100 = 100	UICSE41

முன்றாமாண்டு - ஐந்தாம் பருவம்

சிற்றிலக்கியம்

தரப்புள்ளி : 5

பயிற்றுக் காலம் : 5 மணி

Subject Code : U2TAC51

மதிப்பெண் : 75

நோக்கம் : வலிமை வாய்ந்த பொருளாதார நிறுவனங்களான பேரரசையும் பெருங்கோயிலையும் சார்ந்து உருவான சிற்றிலக்கியங்கள் பக்திச் சார்பு கொண்டு எழுந்தமையை உணர்த்துதல்.

பயன் : பக்திச் சார்பு கொண்ட சிற்றிலக்கியங்கள் தளச் சார்புடன் (Localised) தமிழர் பண்பாட்டு வரலாற்றில் பதிவு பெற்றிருப்பதை உணர்த்தல்.

கூறு 1

சிற்றிலக்கியத்தின் தோற்றம் - வளர்ச்சி வகைகள் - அமைப்பு - பாடுபொருள் - பாடியோர்

கூறு 2

தமிழ்விடு தாது (முழுவதும்)

கூறு 3

- குமரகுருபர் இயற்றிய முத்துக் குமார சுவாமிப்பிள்ளைத் தமிழ் - இறுதி மூன்று பருவங்கள்
- குமரகுருபர் இயற்றிய மீனாட்சியம்மைப் பிள்ளைத் தமிழ் - இறுதி மூன்று பருவங்கள்

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Virudhunagar – 626 001.

Course Name: B. A. English Literature**Discipline : English**

Sem	Part	Subject	Hrs	Cr	Int+Ext= Total	Subject Code	Status
V	Core 9	Shakespeare	5	5	25+75=100	U2ENC51	New
	Core 10	American Literature	5	5	25+75=100	U2ENC52	New
	Core 11	Indian Writing in English	5	5	25+75=100	U2ENC53	New
	Core 12	New Literatures In English	5	5	25+75=100	U2ENC54	New
	Elective 1	History of English Language	6	5	25+75=100	U2ENE51	New
	SBE - 4	Employability Skills	2	2	25+75=100	U2ENS51	New
	NME - 1	English Language Skills	2	2	25+75=100	U2ENN51	New

Sem	Part	Subject	Hrs	Cr	Int+Ext= Total	Subject Code	Status
VI	Core 13	Indian Diaspora Literature	6	4	25+75=100	U2ENC61	New
	Core 14	Women's Writing in English	6	4	25+75=100	U2ENC62	New
	Elective 2	Translation: Theory and Practice	6	5	25+75=100	U2ENE61	New
	Elective 3	Journalism	6	5	25+75=100	U2ENE62	New
	SBE -5	Computer Skills	2	5	25+75=100	U2ENS61	New
	SBE -6	English for Competitive Examinations	2	2	25+75=100	U2ENS62	New
	NME - 2	Soft Skills	2	2	25+75=100	U2ENN61	New

Self Learning Courses:

Subject	Semester	Credit	Ext =Tot	Subject Code
Children's Literature	V	5	100 = 100	U1ENSL51
Human Rights	IV	5	100 = 100	U1ICSL41

Semester V
Core Subject – Paper IX
SHAKESPEARE

Contact hours per week: 5**Contact hours per semester: 75****Subject Code: U2ENC51****Credits : 5****Objectives:**

- a. To make the students read and appreciate Shakespeare's works.
- b. To expose them to various types of Shakespeare's plays.
- c. To enrich them with the common features of Shakespeare's plays.

Unit I

Twelfth Night (15 Hrs)

Unit II

Macbeth (15 Hrs)

Unit III

Henry IV-Part I (15 Hrs)

Unit IV

The Winter's Tale (15 Hrs)

3/2/2017
VIRUDHUNAGAR HINDU NADARS'
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Virudhunagar – 626 001

Course Name: Bachelor of Arts

Discipline: Economics

Semester	Part	Subject	Hour	Credit	Int+Ext=Tot	Subject Code	Status
V	Core 9	Monetary Economics	5	5	25+75=100	U2ECC51	Revised
	Core 10	International Economics	5	5	25+75=100	U2ECC52	Revised
	Core 11	Fiscal Economics	5	4	25+75=100	U2ECC53	Revised
	Core 12	Indian Economy	5	4	25+75=100	U2ECC54	Revised
	Elective 1	Research Methodology	6	5	25+75=100	U1ECE51	No change
	SBE- 4	Employability Skills	2	2	25+75=100	U1PS51	No change
	NME-1	Elementary Economics	2	2	25+75=100	U2ECN51	Revised

Semester	Part	Subject	Hour	Credit	Int+Ext=Tot	Subject Code	Status
VI	Core 13	Planning and Growth	6	5	25+75=100	U2ECC61	Revised
	Core 14	Computer Science	6	5	25+75=100	U2ECC62	Revised
	Elective 2	Labour Economics	6	5	25+75=100	U2ECE61	Revised
	Elective 3	Economics of Marketing	6	5	25+75=100	U2ECE62	Revised
	SBE-5	Soft Skills for Carrier Development	2	2	25+75=100	U2ECS61	Revised
	SBE-6	Business Correspondence	2	2	25+75=100	U2ECS62	New
	NME-2	Perceptives of Indian Economy	2	2	25+75=100	U2ECN61	New

Self Learning Courses:

Subject	Semester	Credit	Ext =Tot	Subject Code
Human Rights	IV	5	100 = 100	UICSL4I

31/03/17
PRINCIPAL

VIRUDHUNAGAR HINDU NADAR
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V- SEMESTER

CORE PAPER -9 MONETARY ECONOMICS

Contact Hours Per Week: 05
Contact Hours per Semester: 75

CREDITS: 5
Subject Code: U2ECC51

Objectives:

To enable the students to

1. Understand the importance of monetary and credit system of India
2. Understand concepts of demand and supply of money
3. Gain knowledge about Monetary policies

Unit I: An Introduction to Money (15 Hours)

Barter System: Meaning– Difficulties of Barter system – Evolution of Money - Classification – Functions – Significance and Evils of money – Role of money in a capitalist and socialist economy.



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Virudhunagar – 626 001

Course Name : Bachelor of Arts

Discipline : History

Semester	Part	Subject	Hrs	Cr	Int.+Ext.= Total	Subject Code	Status
III	Part I	தமிழ்	6	3	25+75=100	UIPT3	No change
	Part II	ஆங்கிலம்	6	3	25+75=100	UIPE3	No change
	Core 5	இந்திய அரசியல் வரலாறு (1526 – 1773 A.D)	5	4	25+75=100	U2HSC31	Revised
	Core 6	அமெரிக்க ஐக்கிய நாடுகளின் வரலாறு (கி.பி. 1776 – 1865 வரை)	5	4	25+75=100	U2HSC32	Revised
	Allied 3	சுற்றுலாவின் அடிப்படை கொள்கைகள்	6	5	25+75=100	U2HSA31	Revised
	SBE - 1	கல்வெட்டியல்	2	2	25+75=100	UIHSS31	No change

Semester	Part	Subject	Hrs	Cr	Int.+Ext.= Total	Subject Code	Status
IV	Part I	தமிழ் / Hindi	6	3	25+75=100	UIPT4	No change
	Part II	ஆங்கிலம்	6	3	25+75=100	UIPE4	No change
	Core 7	இந்திய அரசியல் வரலாறு (கி.பி.1773- 1947)	4	4	25+75=100	U2HSC41	Revised
	Core 8	அமெரிக்க ஐக்கிய நாடுகளின் வரலாறு (கி.பி.1865 – 2016 வரை)	4	4	25+75=100	U2HSC42	Revised
	Allied 4	இந்தியாவில் சுற்றுலா பொருள்	6	5	25+75=100	UIHSA41	No change
	SBE - 2	தமிழ்நாட்டில் ஜமீன்தாரி முறை	2	2	25+75=100	U2HSS41	Revised
SBE - 3	தொல்லியல் ஒரு அறிமுகம்	2	2	25+75=100	U2HSS42	Revised	

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Year	Part	Subject	Hour	Credit	Code
I & II	Part V	NSS/ NCC/ Physical Education – Sports	-	1	U1NS1/ U1NC1/ U1PS1

Self Learning Courses:

Subject	Semester	Credit	Ext =Tot	Subject Code
Human Rights	IV	5	100 = 100	U1CSL41

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Virudhunagar – 626 001

Course Name : **Master of Arts**Discipline : **History****Course Scheme:**

Semester	Part	Subject	Hrs	Cr	Int.+Ext.= Total	Subject Code	Status
III	Core 10	Socio-cultural History of Tamilnadu (1800-1967 A.D.)	6	5	40+60=100	P1HSC31	No change
	Core 11	Trends in Historical Writing	6	4	40+60=100	P1HSC32	No change
	Core 12	History of Europe (1453-1789 A.D.)	6	4	40+60=100	P1HSC33	No change
	Core 13	Ideas and Movements (From 18 th Century to 20 th Century)	6	4	40+60=100	P1HSC34	No change
	Elective- 2	History of World Civilization up to 1453 A.D.	6	5	40+60=100	P1HSE31	No change

Semester	Part	Subject	Hrs	Cr	Int.+Ext.= Total	Subject Code	Status
IV	Core 14	Contemporary History of India (1947-2000 A.D.)	6	4	40+60=100	P1HSC41	No change
	Core 15	Constitutional History of India (1773-1950 A.D.)	6	4	40+60=100	P1HSC42	No change
	Core 16	Historical Research Methodology	6	4	40+60=100	P1HSC43	No change
	Core 17	International Relations (1945-2000 A.D.)	6	4	40+60=100	P1HSC44	No change
	Elective - 3	Dravidian Movement	6	5	40+60=100	P2HSE41	Revised

Third Semester**Socio-Cultural History of Tamilnadu, 1800-1967 A.D****Contact Hours per Semester: 90 hrs****Hours per week: 6****Credits: 5****Objectives:**

- To have a knowledge about the British economic policy as well as the development of western education and its impacts on society.
- To enrich the knowledge about the socio-economic condition of Tamilnadu and the role of Dravidian movements.

Unit-I**(15-hours)**

Social conditions: Position of women-sati-child marriage-Devadasi system-Infanticide-changes in the 19th and 20th centuries - Social beliefs and social practices: Social ceremonies-festivals-entertainment-supersitions - Religion:Saivism – st.Ramalingar - Vaishnavism:the Schism-Village gods and deities - Christianity - Growth and Impact-Islam:Growth and Impact.


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Subject Code: P1HSC31

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Course Name: **Bachelor of Commerce**Discipline: **Commerce**

Semester	Part	Subject	Hrs	Cr	Int+Ext= Tot	Subject Code	Status
V	III	Financial Accounting- V	5	4	25 + 75 = 100	U2CMC51	Revised
	III	Financial Markets and Services	5	4	25 + 75 = 100	U2CMC52	Revised
	III	Auditing	5	4	40 + 60 = 100	U2CMC53	Revised
	III	Business Law	5	4	25 + 75 = 100	U2CMC54	Revised
	III	Elective – II - Income Tax	6	5	25 + 75 = 100	U2CME51	Revised
	IV	SBS – IV – Employability Skills	2	2	25 + 75 = 100	U1PSS1	No change
	IV	NME – I – Business Accounting	2	2	25 + 75 = 100	U2CMN51	New

Semester	Part	Subject	Hrs	Cr	Int+Ext= Tot	Subject Code	Status
VI	III	Management Accounting	6	4	25 + 75 = 100	U2CMC61	Revised
	III	Business Environment	6	4	25 + 75 = 100	U2CMC62	Revised
	III	Industrial Law	6	4	25 + 75 = 100	U2CMC63	Revised
	III	Financial Management	6	5	40 + 60 = 100	U2CME61	Revised
	IV	SBS – V – Tally	2	2	25 + 75 = 100	U2CMS61	Revised
	IV	SBS – VI – LAB: Tally	2	2	40 + 60 = 100	U2CMS6P	Revised
	IV	NME – II – Principles of Marketing	2	2	25 + 75 = 100	U2CMN61	New

Self Learning Courses:

Subject	Semester	Credit	Ext =Tot	Subject Code
Human Rights	IV	5	100 = 100	U1CSL41

**V – SEMESTER
FINANCIAL ACCOUNTING – V**

Hours: 5hrs/week 75 Hrs**Subject Code: U2CMC51****Credits: 4****Objective:** To provide the basic knowledge of Company Accounts.**Unit – 1****(15-hours)**

Issue of shares – accounting procedures for issue of equity and preference shares at par, at discount and at premium – ESOP - calls-in-arrear – calls-in-advance – forfeiture and reissue – redemption of redeemable preference shares.

Unit – 2**(15-hours)**

Redemption of debentures – methods – sinking fund – purchase of own debentures – ex-interest and cum-interest quotations – purchase of own debentures as investment – cancellation of own debentures.

Underwriting of shares and debentures – marked and unmarked applications – firm underwriting.

Unit – 3**(15-hours)**

Profit and loss prior to incorporation – final accounts of joint stock companies.

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Virudhunagar – 626 001

Course Name: **Bachelor of Commerce**Discipline: **Commerce with Computer Applications**

Semester	Part	Subject	Hrs	Cr	Int+Ext=Tot	Subject Code	Status
V	III	Financial Accounting– V	5	5	25 + 75 = 100	U2CCC51	No change
	III	Java Programming	5	5	25 + 75 = 100	U2CCC52	No change
	III	LAB: Java Programming	5	3	40 + 60 = 100	U2CCC5P	No change
	III	Business Law	5	4	25 + 75 = 100	U2CCC53	No change
	III	Elective – II - Income Tax	6	5	25 + 75 = 100	U1CCE51	No change
	IV	SBE – IV – Employability Skills	2	2	25 + 75 = 100	U1PS51	No change
	IV	NME – I – Business Accounting	2	2	25 + 75 = 100	U2CCN51	No change

Semester	Part	Subject	Hrs	Cr	Int+Ext=Tot	Subject Code	Status
VI	III	Management Accounting	6	3	25 + 75 = 100	U2CCC61	No change
	III	Internet and Web Technologies	6	3	25 + 75 = 100	U2CCC62	No change
	III	Industrial Law	6	5	25 + 75 = 100	U2CCC63	No change
	III	LAB: Web Design	6	4	40 + 60 = 100	U2CCC6P	No change
	IV	SBE – V – Tally	2	2	25 + 75 = 100	U2CCS61	No change
	IV	SBE – VI – LAB: Tally	2	2	40 + 60 = 100	U2CCS6P	No change
	IV	NME – II – Principles of Marketing	2	2	25 + 75 = 100	U2CCN61	No Change

Self Learning Courses:

Subject	Semester	Credit	Ext =Tot	Subject Code
Human Rights	IV	5	100 = 100	U1CCL41

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**V – SEMESTER
FINANCIAL ACCOUNTING – V**

Hours: 5hrs/week 75 Hrs

Subject Code: U2CCC51

Credits: 4

Objective: To provide the basic knowledge of Company Accounts.

Unit – 1**(15-hours)**

Issue of shares – accounting procedures for issue of equity and preference shares at par, at discount and at premium – ESOP - calls-in-arrear – calls-in-advance – forfeiture and reissue –redemption of redeemable preference shares.

Unit – 2**(15-hours)**

Redemption of debentures – methods –sinking fund – purchase of own debentures – ex-interest and cum-interest quotations – purchase of own debentures as investment-cancellation of own debentures.

Underwriting of shares and debentures – marked and unmarked applications – firm underwriting.

Unit – 3**(15-hours)**

Profit and loss prior to incorporation – final accounts of joint stock companies.



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COURSE NAME: BACHELOR OF BUSINESS ADMINISTRATION

Sem	Part	Subject	Hr	Cr	Int+Ext = Total	Subject Code	Status
V	CORE 12	OPERATIONS MANAGEMENT	5	4	25+75=100	U2BAC51	Revised
	CORE 13	RETAIL MANAGEMENT	5	4	25+75=100	U2BAC52	Revised
	CORE 14	MANAGEMENT ACCOUNTING	5	4	25+75=100	U2BAC53	Revised
	CORE 15	RESEARCH METHODOLOGY	5	4	25+75=100	U1BAC54	No change
	ELECTIVE 2	SALES MANAGEMENT	6	5	25+75=100	U2BAE51	Revised
	SBE- 4	EMPLOYABILITY SKILLS	2	2	25+75=100	U1PS51	No change
	NME 1	PRINCIPLES OF MANAGEMENT	2	2	25+75=100	U2BAN51	Revised

Sem	Part	Subject	Hr	Cr	Int+Ext = Total	Subject Code	Status
VI	CORE 16	FINANCIAL MANAGEMENT	6	4	25+75 = 100	U1BAC61	Revised
	CORE 17	SERVICES MARKETING	6	4	25+75 = 100	U1BAC62	Revised
	CORE 18	HUMAN RESOURCE MANAGEMENT	6	4	25+75 = 100	U2BAC63	Revised
	ELECTIVE 3	PROJECT REPORT	6	5	100+0 = 100	U2BA6PR	Revised
	SBE 5	SOFT SKILLS	2	2	25+75 = 100	U2BAS61	New
	SBE 6	PERSONALITY DEVELOPMENT	2	2	25+75 = 100	U2BAS62	New
	NME 2	ENTREPRENEURSHIP	2	2	25+75=100	U1BAN61	No change

Self Learning Courses:

Subject	Semester	Credit	Ext = Tot	Subject Code
Company Organisation	V	5	100 = 100	U1BASL51
Human Rights	IV	5	100 = 100	U1CSL41



Self Learning Subject

மனித உரிமைகள்

Credits: 5

Subject Code: U1CSL41

நோக்கங்கள்:-

- 1) மாணவர்களிடையே மனித உரிமை பற்றிய விழிப்புணர்வை ஏற்படுத்துதல்
- 2) பெண்கள் மற்றும் குழந்தைகளுக்கான உரிமைகளின் முக்கியத்துவத்தை மாணவர்களுக்கு உணர்த்துதல்

அலகு 1

(20 மணி நேரம்)

மனித உரிமையின் தோற்றமும் வளர்ச்சியும் - மனித உரிமை மீறலுக்கான காரணங்கள் : இமை, மொழி, நிறம், பாலினம், மதம், கல்வி, நகர்ப்புறம், கிராமப்புறம், மற்றும் பொருளாதாரம் - மனித உரிமை விளக்கம் - மனித உரிமை வகைகள். இயற்கை உரிமைகள் - சமூகநல உரிமைகள் - சட்ட உரிமைகள் - பொருளாதார உரிமைகள் - அரசியல் உரிமைகள்.

அலகு 2

(20 மணி நேரம்)

ஐக்கிய நாடுகள் சபையும் மனித உரிமைகளும்: ஐ. நாவும் மனித உரிமை ஆணையமும் - அனைத்துலக மனித உரிமைகள் பிரகடனம் - வாழ்வியல் மற்றும் அரசியல் உரிமைகளின் மீதான சர்வதேச ஒப்பந்தம் 1966 - மனித உரிமைகள் தினம்.

அலகு 3

(20 மணி நேரம்)

இந்திய அரசியலமைப்பும் மனித உரிமைகளும்: அடிப்படை உரிமைகள் - அரசு வழிகாட்டி நெறிமுறை கோட்பாடுகள் - அடிப்படை கடமைகள் - தேசிய மனித உரிமை ஆணையம் - அமைப்பு - செயல்பாடுகள் - மாநில மனித உரிமை ஆணையம் - அமைப்பு - செயல்பாடுகள்.

அலகு 4

(15 மணி நேரம்)

பெண்ணுரிமைகளும் சமகால பிரச்சனைகளும் - சிசுக்கருவதை - சிசுவதை - குழந்தை திருமணம் - கேலி செய்தல் - தராவக விச்சு - பாலியல் பலாத்காரம் - வரதட்சனை மற்றும் குடும்ப வன்முறை.

குழந்தைகள் உரிமைகள் - கல்வி உரிமை - குழந்தை தொழிலாளர்கள்.

அலகு 5

(20 மணி நேரம்)

மனித உரிமை மீறப்படுவதற்கான காரணங்களும், தீர்வுகளும் - மனித உரிமைகளை பாதுகாப்பதில் கம்யூனிஸ்ட் கட்சி அரசு சாரா அமைப்புகள் மற்றும் தகவல் தொடர்பு சாதனங்களின் பங்கு - சர்வதேச பொதுமன்னிப்பு நிறுவனம் (Amnesty International) - ஆசியா கண்காணிப்பு (Asia Watch) - மக்கள் கண்காணிப்பகம் (Peoples Watch).

நூற்பட்டியல் :

- 1) மனித உரிமைகள் - C. ஐயாத்துரை
- 2) மனித உரிமைகள் வினாக்களும், விடைகளும் - Tr..M. சேதுராமலிங்கம்
- 3) மனித உரிமைகள் - முத்திருளாண்டி
- 4) மனித உரிமைகள் - J. தர்மராஜ்
- 5) உரிமை காப்போம் - மனித உரிமை கல்வி நிறுவனம்



Human Rights

Credit: 5

Subject Code: U1CSL41

Total marks 100

Objectives:

- a. To create an awareness among the students on Human Rights.
- b. To enlighten the students on the importance of women and child rights.
- c. To transform the students community towards peace and prosperity.

Unit I

Origin and Development of Human Rights – Reasons for Violation of Human Rights – Race – Language - Colour - Sex – Religion – Education – Urban – Rural – Economy – Human Rights Definition – Natural Rights – Social Rights - Legal Rights – Economic Rights – Political Rights.

Unit II

UNO and Human Rights – UNO and Human Rights Commission - Universal declaration of Human Rights (1948) – International covenants on Economic and Social Rights – International covenants on Political and Civil Rights – Human Rights Day.

Unit III

Indian constitution and Human Rights – Fundamental Rights – Directive Principles of state policy - Fundamental duties – National Human Rights Commission – Structure - Activities – State Human Rights Commission – Structure - Activities – Constitutional Remedies.

Unit IV

Contemporary issues and Women Rights – Abortion and infanticide – Child marriage – Eve teasing – Acid attack - Sexual harassment – dowry and domestic violations - Child Rights – Educational Rights – Child Labour.

Unit V

Reasons for the violation of Human Rights and the remedies – Role of Communist Party – NGOs and media in protecting Human Rights – Amnesty International – Asia Watch – Peoples Watch.



Books for reference:

1. Prakash Mishra, *Human Rights in India*, Cyber Tech Publications, New Delhi, 2012.
2. Vinod Sharma, *Human Rights Violation, A Global Phenomenon*, APH Publishing Corporation, New Delhi.
3. Deep Kumar Srivastava, *Human Rights in India*, Anubhar Publishing House, Allahabad, 2009.
4. Jenusz Symonides, *Human Rights International Protection, Monitoring, Enforcement*, Rawat Publications, Jaipur, 2005.
5. Kaushlendra Mishra, *NGOs in the Human Rights movement*, Navyug Publishers, New Delhi, 2008.
6. Sudharani Shrivastava, *Humanity and Human Rights*, Commonwealth Publishers, New Delhi, 2004.

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Course Name: Bachelor of Science

Discipline : Mathematics

(Those who join in 2015 and after)

Sem	Part	Subject	Hrs	Cr	Int+Ext = Total	Subject Code	Status
V	Core 7	Graph Theory and its applications	5	4	25+75=100	U2MAC51	Revised
	Core 8	Linear Algebra and Matrices	5	4	25+75=100	U2MAC52	Revised
	Core 9	Modern Analysis	5	4	25+75=100	U2MAC53	Revised
	Allied 7	Mathematical Statistics	6	5	25+75=100	U2MAA51	Revised
	Elective 1	Mechanics	5	5	25+75=100	U2MAE51	New
	SBE - 4	Employability Skills	2	2	25+75=100	UIPS51	No Change
	NME - 1	Fundamentals of Mathematics	2	2	25+75=100	U2MAN51	Revised

Sem	Part	Subject	Hrs	Cr	Int+Ext = Total	Subject Code	Status
VI	Core 10	Complex analysis	6	5	25+75=100	U2MAC61	Revised
	Core 11	Theory of Numbers	6	5	25+75=100	U2MAC62	Revised
	Core 12	Operations Research	5	5	25+75=100	U1MAC63	No change
	Allied 8	Advanced Statistics	6	5	25+75=100	U2MAA61	Revised
	SBE - 5	Applications of Differential Equations	2	2	25+75=100	U2MAS61	New
	SBE - 6	Random Process	2	2	25+75=100	U2MAS62	Revised
	NME - 2	Statistics and Operations Research	2	2	25+75=100	U1MAN61	No change

Self Learning Courses:

Subject	Semester	Credit	Ext = Tot	Subject Code
Human Rights	IV	5	100 = 100	U1CSL41

GRAPH THEORY AND ITS APPLICATIONS

Credits: 4

Contact Hours: 5/week

Subject Code : U2MAC51

Contact Hours: 75 / Semester


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OBJECTIVES:

- i) To understand the concepts of graph theory.

UNIT –I : Graphs

Definition and examples – Degrees- Subgraphs- Isomorphism-Independent sets and Coverings-Matrices- Operations on graphs. (15hrs)

UNIT – II: Connectedness, Eulerian and Hamiltonian graphs

Walks-Trails and Paths-Connectedness and Components-Connectivity-Eulerian graphs- Hamiltonian graphs. (15hrs)



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Course Name : **Bachelor of Science**

Discipline : **Physics**

COURSE SCHEME:

Sem	Part	Subject	Hrs	Cr	Int+Ext = Total	Subject Code	Status
V	I	Core 5 Classical & Statistical Mechanics	4	4	25+75=100	U1PHC51	No change
	II	Core 6 Digital Electronics	4	4	25+75=100	U1PHC52	No change
	III	Core 7 Physical Optics & Spectroscopy	4	4	25+75=100	U1PHC53	No change
	III	Core (Major) General Physics Lab	3	0	-	-	-
	III	Core (Major) Electronics Lab	3	0	-	-	-
	III	Core (Major) Project & Area Study	2	0	-	-	-
	III	General Chemistry	4	4	25+75=100	U1CHA5X3	No change
	III	Organic analysis Lab	2	0	-	-	-
	IV	Employability Skills	2	2	25+75=100	U1PS51	No change
	IV	NME - Basic Physics – I	2	2	25+75=100	U1PHN51	No change
VI	I	Core 8 Atomic & Nuclear Physics	4	4	25+75=100	U1PHC61	No change
	II	Core 9 Material Science	4	4	25+75=100	U2PHC62	Revised
	III	Core 10 Programming in C	4	4	25+75=100	U2PHC63	New
	III	Core (Major) LAB: General Physics	3	5	40+60=100	U1PHC6P1	No change
	III	Core (Major) LAB: Electronics	3	5	40+60=100	U1PHC6P2	No change
	III	Core (Major) Project & Area Study	2	4	100+0=100	U2PH6PR	New
	III	General Chemistry	4	4	25+75=100	U1CHA6X4	No change
	III	Organic analysis Lab	2	2	40+60=100	U1CHA6PX 2	No change
	IV	SBS6 Bio-Medical Instrumentation	2	2	25+75=100	U2PHS61	New
	IV	NME - Basic Physics – II	2	2	25+75=100	U1PHN61	No change
				57			

Self Learning Courses

Subject	Semester	Credit	Ext = Tot	Subject Code
Human Rights	IV	5	100 = 100	U1CSL41

Objectives

- Nowadays most of the students prefer to join Professional Colleges after completing their higher secondary School studies. Only limited students wish to join Science Colleges.
- The curriculum of B.Sc Physics programme is now carefully designed to create interest in Physics and in order to prepare the students to meet the challenges of Society locally or globally.
- After the successful completion of this course, a B.Sc. degree holder would be able to face various competitive examinations and take up any job requiring the graduateship.
- Also, the degree holder will become equipped to undergo various post graduate courses in Physics and related subjects and to give full assistance to researchers in various research and development laboratories.



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Virudhunagar – 626 001

Course Name : Bachelor of Science

Discipline : Chemistry

Sem	Part	Subject	Hrs	Cr	Int+Ext=Total	Subject Code	Status
V	III	Core Subject V – Organic Chemistry I	4	4	25+75= 100	U2CHC51	Revised
	III	Core Subject VI – Physical Chemistry I	4	4	25+75= 100	U2CHC52	Revised
	III	Core Subject VII – Inorganic Chemistry I	4	4	25+75= 100	U2CHC53	Revised
	III	Core lab III – Organic Preparations and Gravimetric Estimations	3	-	---	---	---
	III	Core lab IV – Organic Analysis and Organic Estimations	3	-	---	---	---
	III	Core lab V – Physical Chemistry experiments	2	-	---	---	---
	III	Allied II (Physics)Electricity and Electronics	4	4	25+75= 100	U1PHA5X3	No change
	III	Allied II Lab(Physics)	2	-	---	---	----
	IV	Skill Based Subject V – Employability Skills	2	2	25+75= 100	U1PS51	No change
	IV	Non Major Elective I – Chemistry in day-to-day life	2	2	25+75= 100	U2CHN51	Revised

Sem	Part	Subject	Hrs	Cr	Int+Ext= Total	Subject Code	Status
VI	III	Core Subject VIII – Organic Chemistry II	4	4	25+75= 100	U1CHC61	No change
	III	Core Subject IX – Physical Chemistry II	4	4	25+75= 100	U2CHC62	Revised
	III	Core Subject X – Inorganic Chemistry-II	4	4	25+75= 100	U2CHC63	Revised
	III	Core lab III – Organic Preparations and Gravimetric Estimations	3	4	40+60= 100	U1CHC6P1	No change
	III	Core lab IV – Organic Analysis and Organic Estimations	3	4	40+60= 100	U1CHC6P2	No change
	III	Core lab V – Physical Chemistry experiments	2	4	40+60= 100	U1CHC6P3	No change
	III	Allied II (Physics)Optics, Spectroscopy and Modern Physics	4	4	25+75= 100	U1PHA6X4	No change
	III	Allied II Lab(Physics): Physics Practical II	2	2	40+60= 100	U1PHA6PX	No change
	IV	Skill Based Subject VI – Medicinal Laboratory Technology and Clinical Biochemistry	2	2	25+75= 100	U1CHS61	No change
	IV	Non Major Elective II – Industrial Chemistry	2	2	25+75= 100	U2CHN61	Revised

**Self Learning Courses:**

Subject	Semester	Credit	Ext =Tot	Subject Code
Human Rights	IV	5	100 = 100	U1CSL41

**SEMESTER-V
ORGANIC CHEMISTRY I****Hours per week: 4****Credits: 4****Subject Code: U2CHC51****Objectives:**

- To have a bird's eye view on polynuclear hydrocarbons and green chemistry.
- To appreciate the synthesis of new compounds and their uses.
- To understand the concept of aromaticity and aromatic substitution.
- To impart the knowledge of dye and its application.

Unit-I: Dyes**(12 hours)**

Definition- theories of colour and constitution - classification of dyes according to their structure and application.

Azo dyes- preparation of methyl orange & Congo red. triphenyl methane dyes - preparation of malachite green, rosaniline and crystal violet. Phthalein dyes- preparation of phenolphthalein, fluorescein and eosin. Vat dyes- preparation of indigo.

Unit-II: Derivatives of benzene:**(12 hours)**

Halogen compounds- preparation and properties of bromobenzene, iodobenzene, 1,3,5- tribromobenzene.

Hydroxybenzene-acidic character of phenols- effect of substituents on acidity of phenols- mechanism of Reimer-Tiemann reaction, Kolbe reaction- preparation of cresols, catechol, resorcinol, quinol and eugenol.

Aromatic nitro compounds- preparation and properties of nitrotoluenes-reduction in different medium.

Aromatic amino compounds- preparation by reduction of nitro compounds and from chlorobenzene- effect of substituents on the basic character of aromatic amines- comparison between aliphatic and aromatic amines- Estimation of aniline- preparation of sulphanilic acid, nitroanilines and phenylenediamines- preparation and synthetic applications of benzene diazonium chloride.

Unit-III: Aromatic carbonyl compounds**(12 hours)**

Aldehydes and ketones: preparation, properties and uses of cinnamaldehyde- coumarin- vanillin, Michler's ketone, benzoquinones, Quinone's- nitroso oxime tautomerism- mechanism of Perkin's reaction, Claisen reaction, Cannizzaro reaction, Knoevenagel reaction, Benzoin condensation, Gattermann aldehyde synthesis, phenolic ketones- phloroacetophenone-preparation- Houben-Hoesch synthesis.

Unit-IV: Aromatic carboxylic acids**(12 hours)**

Aromatic carboxylic acids- effect of substituents on acidic character- preparation, properties and uses of phenylacetic acid, mandelic acid, cinnamic acid- properties and uses of phthalic acid, isophthalic acid and terephthalic acid.

Substituted acids- preparation, properties and uses of salicylic acid, aspirin, anthranilic acid. Aromatic sulphonic acids: preparation, properties and uses of benzene sulphonic acid, saccharin, chloramine-T and dichloramine-T.



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Virudhunagar – 626 001

Courses Name: Bachelor of Science

Discipline : Botany

Sem	Part	Subject	Hr	Cr	Int+Ext= Total	Subject Code	Status
V	Core V	Biochemistry	5	5	25+75=100	U2BYC51	Revised
	Core VI	Genetics and Plant Breeding	5	5	25+75=100	U2BYC52	Revised
	Core VII	Taxonomy of Angiosperms	4	4	25+75=100	U2BYC53	Revised
	Core Practical V	LAB: Biochemistry, Genetics and Plant Breeding & Taxonomy of Angiosperms	6	3	40+60=100	U2BYC5P	Revised
	Allied (b) - III	Cell Biology, Developmental Biology, Physiology, Immunology and Evolution	4	4	25+75=100	U2ZYA5 X3	Revised
	Allied (b) – Practical III	LAB: Zoology	2	-	----	---	----
	Skill V – General Studies	Employability Skills	2	2	25+75=100	U1PS51	No change
	NME I	Plant utility & Exploitation	2	2	25+75=100	U2BYN51	Revised

Sem	Part	Subject	Hr	Cr	Int+Ext= Total	Subject Code	Status
VI	Core VIII	Plant Physiology	5	5	25+75=100	U2BYC61	Revised
	Core IX	Biotechnology and Bioinformatics	5	5	25+75=100	U2BYC62	Revised
	Core X	Microbiology	4	4	25+75=100	U2BYC63	Revised
	Core Practical VI	LAB: Plant physiology, Biotechnology and Bioinformatics & Microbiology	6	4	40+60=100	U2BYC6P	Revised
	Allied (b) - IV	Commercial Zoology (Vermiculture, Apiculture, Aquaculture and Poultry Science and Dairy Farming)	4	4	25+75=100	U2ZYA6X4	Revised
	Allied (b) - Practical IV	LAB: Cell biology, Developmental biology, Physiology, Immunology and evolution & Commercial Zoology	2	2	40+60=100	U2ZYA6PX	Revised
	Skill VI	Biodiversity and Conservation	2	2	25+75=100	U2BYS61	Revised
	NME II	Mushroom Cultivation	2	2	25+75=100	U2BYN61	Revised



Self Learning Courses:

Subject	Semester	Credit	Ext =Tot	Subject Code
Human Rights	IV	5	100 = 100	U1CSL41

**Semester - V
Core- V Biochemistry**

Contact Hours per week: 5 hrs

Contact Hours per Semester: 60 hrs

Sub code: U2BYC51

Credit-5

Objectives:

- To understand the basic concepts of Biochemistry
- To understand the basic concepts and application of Instruments

Unit – I

12-Hrs

Basic concepts of atoms, molecules and types of Bonding in Biomolecules, Isomerism and its types, pH- pH Scale, acid and base concepts. Buffers – Henderson - Hasselbalch equations. Basic principles of thermodynamics (Laws of Thermodynamics, Enthalpy, Entropy and Free energy).

Unit – II

12-Hrs

Carbohydrates: definition, structure linear/open chain, ring form, classification-structure of glucose, sucrose, starch and cellulose. Properties of monosaccharides

Lipids: Classification of lipids and its properties.

Unit – III

12-Hrs

Amino acid: structure, classification of amino acid (based on side chain and based on polarity), physical and chemical properties of amino acids.

Proteins: Classifications-based on composition, and solubility, structure-primary, secondary, tertiary and quaternary, different bonding system and properties of proteins.

Unit – V

12-Hrs

Enzymes: Nomenclature, classification and properties, Mechanism of enzymes (Lock and key, Induced fit model) factors affecting enzyme activities (substrate, pH and temperature and inhibitors).

Vitamins – structure, classification, source, importance, deficiency symptoms.

Unit – V

12-Hrs

Basic principles and application of colorimetry, pH meter and centrifuge. Chromatography - paper, TLC and column chromatography – basic principles and its application.

Text Book:

- U.Satyanarayana (2013) - **Biochemistry**. Imprint: Elsevier India
- Jain.J.L (2004), **Fundamentals of Biochemistry**, S.Chand & Company, New Delhi.

Reference Book:

- Conn,E.E, Stumpf,P.K, Bruening,G and Doi,R.H (2001) **Outlines of Biochemistry**, John Wiley & Sons, New York.
- Lehninger.A (1982) **Principle Biochemistry**, CBS Publishers & Distributors, Delhi.



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Course Name : Bachelor of Science

Discipline : Zoology

Sem	Part	Subject	Credit	Hour	Int+Ext=Total	Subject Code	Status
V	Core – 7	Animal Physiology	5	5	25+75=100	U2ZYC51	Revised
	Core – 8	Genetics	5	5	25+75=100	U2ZYC52	Revised
	Core – 9	Microbiology and Immunology	4	4	25+75=100	U2ZYC53	Revised
	Core Lab – 7	LAB: Animal Physiology	-	2	---	---	---
	Core Lab – 8	LAB: Genetics	-	2	---	---	---
	Core Lab – 9	LAB: Microbiology and Immunology	-	2	---	---	---
	Allied II – 3	Mulberry Silkworm Rearing and Genetics of Silkworm	4	4	25+75=100	U2ZYA51	Revised
	Allied II – 3 Lab	LAB: Sericulture	-	2	---	---	---
	SBE – 5	Employability Skills	2	2	25+75=100	U1PS51	No change
	NME – 1	Ornamental Fish Culture	2	2	25+75=100	U2ZYN51	Revised
VI	Core – 10	Ecology	5	5	25+75=100	U2ZYC61	Revised
	Core – 11	Biochemistry	5	5	25+75=100	U2ZYC62	Revised
	Core – 12	Evolution	5	4	25+75=100	U2ZYC63	Revised
	Core Lab – 10	LAB: Animal Physiology and Genetics	2	2	40+60=100	U2ZYC6P1	Revised
	Core Lab – 11	LAB: Ecology and Biochemistry	2	2	40+60=100	U2ZYC6P2	Revised
	Core Lab – 12	LAB: Microbiology and Immunology and Evolution	2	2	40+60=100	U2ZYC6P3	Revised
	Allied II – 4	Silk Reeling Technology	4	4	25+75=100	U2ZYA61	Revised
	Allied II – 4 Lab	LAB: Mulberry Silkworm Rearing and Genetics of Silkworm & Silk Reeling Technology	2	2	40+60=100	U2ZYA6P	Revised
	SBE – 6	Biotechnology	2	2	25+75=100	U2ZYS61	Revised
	NME – 2	Human Biology	2	2	25+75=100	U2ZYN61	Revised

Self Learning Courses:

Subject	Semester	Credit	Ext =Tot	Subject Code
Human Rights	IV	5	100 = 100	UICSL41

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Course Name : **Bachelor of Science**Discipline : **Computer Science**

(Those who join in 2015 and after)

COURSE OBJECTIVES:

The syllabus for B.Sc. Computer Science degree under semester system has been designed on the basis of Choice Based Credit System, (CBCS) which would focus on job oriented programmes and Value Added Education.

To promote the students to understand the basic knowledge in the field of Computer Science, to train them in writing Programs in different Computer Languages and prepare the students to fulfill the need of the IT industry and to promote the aspiring students for higher education.

ELIGIBILITY FOR ADMISSION:

Candidate should have passed the Higher Secondary Examination conducted by the Board of Higher Secondary Education, Govt. of Tamil Nadu or any other Examinations accepted by the syndicate as equivalent there to with Mathematics as one of the Subjects.

DURATION OF THE COURSE: Three Years**COURSE SCHEME:**

Sem	Part	Subject	Hr	Cr	Int+Ext= Total	Subject Code	Status
V	Part III Core	Computer Algorithms	4	4	25+75=100	U2CSC51/ U1CSE54	Interchanged
	Part III Core	LAB: PHP and MY SQL	5	3	40+60=100	U1CSC5P1	No change
	Part III Core	Core LAB: DOT NET Programming	5	3	40+60=100	U2CSC5P2	New
	Part III Elective	Embedded system / Computer Networks / Data Mining	5	5	25+75=100	U1CSE51/ U2CSE52/ U1CSE53	Interchanged
	Part III Elective	Data Base Management Systems / Information security / Cloud computing	5	5	25+75=100	U2CSE54/ U1CSE55/ U2CSE56	Interchanged New
	SBE-3	Web Programming	2	2	25+75=100	U1CSS51	No change
	SBE-4	Employability Skills	2	2	25+75=100	U1PS51	No change
	NME - 1	Computer Fundamentals	2	2	25+75=100	U2CSN51	New

Sem	Part	Subject	Hr	Cr	Int+Ext= Total	Subject Code	Status
VI	Part III Core	Software Engineering	4	4	25+75=100	U2CSC61 / U1CSC51	Interchanged
	Part III Core	Computer Graphics	4	4	25+75=100	U2CSC62/ U1CSC42	Interchanged
	Part III Core	Mobile Computing	5	5	25+75=100	U2CSC63	New
	Part III Elective3	Project: Software Development	5	5	Internal 100=100	U2CSC6PR	Revised
	Part III Core	LAB: Android Programming	6	3	40+60=100	U2CSC6P2	New

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SBE-5	Android Programming	2	2	25+75=100	U2CSS61	New
SBE-6	System Software	2	2	25+75= 100	U1CSS62	No change
NME- 2	Introduction to HTML	2	2	25+75=100	U2CSN61	New

Self Learning Courses:

Subject	Credit	Ext =Tot	Subject Code
Microcontrollers and Embedded System Development in C	5	100 = 100	U1CSSL51
Introduction to Python Programming	5	100 = 100	U1CSSL52
Human Rights (Fourth Semester)	5	100=100	U1CSL41

SEMESTER V

COMPUTER ALGORITHMS

Contact Hours per week: 4hrs

Credit: 4

Contact Hours per semester: 60hrs

Subject Code: U2CSC51/ U1CSE54

Objective:

To give training to develop algorithm for solving problems using Divide and Conquer, Greedy, Dynamic Programming, Backtracking and Branch and Bound Techniques.

Unit I:

(12 HRS)

Algorithms: Importance of developing efficient algorithms – Analysis – order – Branch and Bound: Illustrating with 0/1 Knapsack.

Unit II:

(12 HRS)

Divide and Conquer: Binary Search – Merge sort – divide and conquer approach - Quick Sort – Arithmetic with large numbers – when not to use divide and conquer.

Unit III:

(12 HRS)

Dynamic Programming: Binomial coefficients – Floyds algorithm for shortest paths – Dynamic programming and optimisation problems – chained matrix multiplication – Optimal binary search tree – The travelling salesperson problem.

Unit IV:

(12 HRS)

Greedy Approach: Minimum spanning trees – Dijkstra's algorithm for single source shortest path – Scheduling - Huffman code.

Unit V:

(12 HRS)

Backtracking: The Backtracking techniques - n Queens Problem – Monte carlo algorithm to estimate the efficiency of a backtracking algorithm - Sum of Subsets – Graph Colouring – Hamiltonian circuits

Text Books:

Fundations of Algorithms Using C++ Pseudocode, Third edition, Richard Neapolitan, Kumars Naimipour. Narosa Publication, 2004.

UNIT I - Chapters – 1 (1.1 to 1.4, 6.1,6.2)

UNIT II - Chapters – 2 (2.1, 2.4, 2.6)

UNIT III - Chapters – 3 (3.1 to 3.6)

UNIT IV - Chapters – 4 (4.1 to 4.4)

UNIT V - Chapters – 5 (5.1 to 5.6)



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Course Name: **Bachelor of Science**

Discipline: **Information Technology.**

(For those who joined from June 2015 Onwards)

Sem	Part	Subject	Hrs	Cr	Int+Ext= Total	Subject Code	Status
V	Core 13	Dot Net Programming	4	4	25+75=100	U2NTC51	New
	Elective 1	Data Communications and Networks	5	5	25+75=100	U2NTE51	Revised
	Elective 2	Software Engineering	5	5	25+75=100	U2NTE52	Revised
	Core 14 -Lab	LAB: Dot Net Programming	5	3	40+60=100	U2NTC5P 1	New
	Core 15 -Lab	LAB: Web Programming	5	3	40+60=100	U2NTC5P 2	Revised
	SBE -2	Web Technology	2	2	25+75=100	U2NTS51	Revised
	SBE -3	Employability Skills	2	2	25+75=100	UIPS51	No change
	NME-1	Unified Modeling Language/ Introduction to Information Technology	2	2	25+75=100	U2NTN51/ U2NTN52	New New

Sem	Part	Subject	Hrs	Cr	Int+Ext= Total	Subject Code	Status
VI	Core 16	Relational Database Management Systems	6	4	25+75=100	U2NTC61	Interchange
	Core 17	Mobile Communication	6	5	25+75=100	U2NTC62	Revised
	Core 18	Computer Graphics	5	4	25+75=100	U2NTC63	Revised
	Elective 3	Project & Viva-voce	5	5	25+75=100	U1INT6PV	No change
	SBE 4 -Lab	LAB: Linux Programming	2	2	40+60=100	U2NTS6P 1	Interchange
	SBE 5-Lab	LAB: Relational Database Management System	2	2	40+60=100	U2NTS6P 2	Revised
	SBE -6	Cloud Computing	2	2	25+75=100	U2NTS61	No change
	NME-2	Multimedia/ Information Security	2	2	25+75=100	U1NTN61/ U2NTN62	New

Self Learning Courses:

Subject	Semester	Credit	Ext =Tot	Subject Code
Human Rights	IV	5	100 = 100	UICSL41


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Virudhunagar – 626 001.

Course Name: Master of Science**Discipline: Information Technology.**

Rules and Regulations, Course scheme and Scheme of Examinations

(For those who joined from June 2016 Onwards)

COURSE OBJECTIVE:

The M.Sc. (Information Technology) course is designed for enriching students, those with the interest in pursuing intra – disciplinary study in the field of Information Technology as a Post Graduate course. The course provides the students with all necessary theoretical and practical knowledge in complete programming to equip them to meet the IT industrial requirements. The subject of study and the quantum of Hands – on training provide exposure to latest techniques, applications and developments in IT.

Eligibility for Admission:

The candidate should have passed the undergraduate degree examination in Computer Science / Information Technology / Computer Applications.

Duration of the course: Two Years**Course Scheme:**

Semester	Part	Subject	Hour	Credit	Int+Ext =Tot	Sub. Code	Status
I	Core 1	Advanced C Programming	5	5	25+75=100	P16NTC11	No change
	Core 2	Operating System Design	5	4	25+75=100	P16NTC12	No change
	Core 3	Data Structures and Algorithms	5	5	25+75=100	P16NTC13	No change
	Core 4 – Lab	LAB: Data structure using C Pointer	5	3	40+60=100	P16NTIP1	No change
	Core 5 – Lab	LAB: Web Designing	5	3	40+60=100	P16NTIP2	No change
	Elective -1	Computer Networking Security / Cyber Forensics	5	4	25+75=100	P16NTE11 / P16NTE12	No change
Semester	Part	Subject	Hour	Credit	Int+Ext =Tot	Sub. Code	Status
II	Core 6	Advanced Java Programming	5	5	25+75=100	P16NTC21	No change
	Core 7	Software Testing	5	4	25+75=100	P16NTC22	No change
	Core 8	Python Programming	5	5	25+75=100	P16NTC23	No change
	Core 9 – Lab	LAB: Advanced Java Programming	6	3	40+60=100	P16NT2P1	No change
	Core 10 – Lab	LAB: Python Programming	5	3	40+60=100	P16NT2P2	No change
	NME	IT and Data Computations	4	4	25+75=100	P2NTN2	No change

Semester	Part	Subject	Hour	Credit	Int+Ext=Tot	Sub. Code
III	Core 11	Android Programming	5	5	25+75=100	P16NTC31
	Core 12	Data Mining	5	4	25+75=100	P16NTC32
	Core 13	Principles of Compiler design	5	4	25+75=100	P16NTC33
	Core 14 – Lab	LAB: Android Programming	5	3	40+60=100	P16NT3P1
	Core 15 – Lab	LAB: Network	5	3	40+60=100	P16NT3P2
	Elective -2	TCP/IP Protocols / Wireless Sensor Networks	5	5	25+75=100	P16NTE31/ P16NTE32

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Semester	Part	Subject	Hour	Credit	Int+Ext=Tot	Sub. Code
IV	Core 16	Text Mining	5	4	25+75=100	P16NTC41
	Core 17	Cloud Computing	5	4	25+75=100	P16NTC42
	Core 18	Internet of Things	5	4	25+75=100	P16NTC43
	Elective -3	Project & Viva - Voce	15	6	80+ 120=200	P16NT4PV

First Semester

ADVANCED C PROGRAMMING

Contact Hours per Week: 5 hrs

Contact Hours per Semester: 65 hrs

Subject Code: P16NTC11

OBJECTIVE

To train the students to get more knowledge in pointer concepts and also learn TSR concepts with their creation and working

UNIT I

(12 Hrs)

Introduction to Pointers: The & and * operators – Pointers Expression – char, int and float pointers – passing addresses to functions – functions returning pointers.

Pointers and Array: What are arrays? – passing array elements to a function – pointers and arrays – passing an array to a function – more than one dimension – pointers and two dimensional arrays – pointer to an array –passing two dimensional array to a function – three dimensional array – passing 3D array to a function –returning array from function – returning 3D array from a function – dynamic memory allocation – array of pointers.

UNIT II

(13 Hrs)

Pointers and Strings: What are strings? – Standard library Sting functions – pointers and strings –const qualifier –returning const values – two dimensional array of characters – array of pointers to string – limitations of array of pointers to string .

Pointers and Structures: An array of structure – more about Structures – Structure pointers – offsets of Structure elements – linked list – Stacks and Queues –Doubly linked list.

UNIT III

(15 Hrs)

Pointers and Data Structure: Merging of linked list – linked list and polynomials – sorting a linked list – circular linked list – Trees – binary tree – traversal of a binary tree – deletion from a binary tree – threaded binary tree – Graphs.

UNIT IV

(13 Hrs)

Operations on Bits: Bitwise operators – one's complement operator – right shift operator – left shift operator –bitwise AND – bitwise OR –bitwise XOR operator –show bit() function.

Advanced Concepts in C: Types of pointers – which pointers to use? Pointers and typecasting –physical address to segment: offset – the dancing dolls – caps locked – how much memory do you have? ROM-BIOS philosophy – CPU registers – interrupts and Interrupt vector table – invoking ROM-BIOS functions –int86() function – finding memory



Course Name: Master of Science

Discipline: Information Technology.

Rules and Regulations, Course scheme and Scheme of Examinations

(For those who joined from June 2016 Onwards)

Course Scheme:

Semester	Part	Subject	Hour	Credit	Int+Ext=Tot	Sub. Code	Status
III	Core 11	Android Programming	5	5	25+75=100	P16NTC31	No change
	Core 12	Data Mining	5	4	25+75=100	P16NTC32	No change
	Core 13	Principles of Compiler design	5	4	25+75=100	P16NTC33	No change
	Core14– Lab	LAB: Android Programming	5	3	40+60=100	P16NT3P1	No change
	Core15– Lab	LAB: Network	5	3	40+60=100	P16NT3P2	No change
	Elective -2	TCP/IP Protocols / Wireless Sensor Networks	5	5	25+75=100	P16NTE31 / P16NTE32	No change

Semester	Part	Subject	Hour	Credit	Int+Ext=Tot	Sub. Code	Status
IV	Core 16	Text Mining	5	4	25+75=100	P16NTC41	No change
	Core 17	Cloud Computing	5	4	25+75=100	P16NTC42	No change
	Core 18	Internet of Things	5	4	25+75=100	P16NTC43	No change
	Elective-3	Project & Viva - Voce	15	6	80+ 120=200	P16NT4PV	No change

Third Semester

ANDROID PROGRAMMING

Contact Hours per week: 5 hrs

Contact hours per semester: 65 hrs

OBJECTIVE:

Owing to the popularity of Android, Mobile Apps development industries are considering Android Application Development as one of the best remunerative business opportunities. The need to hire knowledgeable mobile application developer is intense.

UNIT I

(12 hrs)

Preliminary information's - Before we get started: History of Android - Advantages of Android - SDK tools to download. **Setting up Android Development Environment:** Installing java, eclipse, android sdk - Android development tools - Setting up AVD's. **Android Software development platform:** Dalvik virtual machine - Directory structure of Android project - Common resource folder - Common values folder - Android manifest.xml - Creating first application. **Activities:** Introduction - Declaring an activity - Starting new activity with an intent object - switching between activities - Returning result from an activity - Storing an activity state - storing persistent activity data - Managing activity life cycle

UNIT II

(12 hrs)

Layouts: Introduction - Declaring layout - Applying relative layout - Applying table layout - Using List views and List adapters - Applying gravity and weight - Controlling layout during runtime - Optimizing for tablets and multiple screens - Dividing screen into fragments. **Handling UI events:** Overview of UI events - Handling onclick events - Android touch screen events - Keyboard event listeners



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Virudhunagar – 626 001.

Course Name : Bachelor of Computer Applications (BCA)

CHOICE BASED CREDIT SYSTEM

(For those who join in June 2017 and after)

Course Scheme:

II BCA

Semester	Part	Subject	Hour	Credit	Int +Ext = Total	Subject Code	Status
III	Part I	Tamil	4	2	25+75=100	U2PT3	No change
	Part II	English	4	2	25+75=100	U2PE3	No change
	Core	Java Programming	4	4	25+75=100	U2CAC31	No change
	Core	Data Structure	4	4	25+75=100	U1CAC32	No change
	Core	Computer Graphics	3	3	25+75=100	U2CAC33	No change
	Allied	Computer Based Financial Accounting	4	4	25+75=100	U1CCA3A/ U1CEA3A	No change
	Core – Lab	LAB: Java Programming	5	3	40+60=100	U2CAC3P1	No change
	SBS - Lab	LAB: Data Structure	2	2	40+60=100	U3CAS3P	Revised

Semester	Part	Subject	Hour	Credit	Int+Ext = Total	Subject Code	Status
IV	Part I	Tamil	4	2	25+75=100	U2PT4	No change
	Part II	English	4	2	25+75=100	U2PE4	No change
	Core	Operating System	4	4	25+75=100	U2CAC41	No change
	Core	Data Communications Network	3	3	25+75=100	U2CAC42	No change
	Core	Advanced Java Programming	4	4	25+75=100	U2CAC43	No change
	Allied	Principles of Costing	4	4	25+75=100	U2CCA4A/ U2CAA4	No change
	SBS – Lab	LAB: Visual Programming	2	2	40+60=100	U3CAS4P	Revised
	Core - Lab	LAB: Advanced Java Programming	5	3	40+60=100	U3CAC4P1/ U2CAC4P2	No change

Year	Part	Subject	Credit	Int. Mark = total	Subject code
I & II	V	NSS/NCC/ PHYSICAL EDUCATION- SPORTS/ YRC/ RRC	1	100 = 100	U2NS4/ U2NC4/ U2PS4/ U2PR4/ U1RR4

Self Learning Courses:

Subject	Semester	Credit	Ext =Tot	Subject Code
Human Rights	IV	5	100 = 100	U1CSL41

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Course Name: BACHELOR OF COMPUTER APPLICATIONS

Semester	Part	Subject	Hrs	Cr	Int+Ext= Total	Subject Code	Status
	Core15	Relational Database Management System	4	4	25+75=100	U2CAC51	Revised
	Core 16 – Lab	LAB: Relational Database Management System	6	3	40+60=100	U2CAC5P1	Revised
	Core 17 – Lab	LAB: Web Technology	6	3	40+60=100	U2CAC5P2	Revised
	Elective 1	Web Technology / Data Mining / TCP/IP	5	5	25+75=100	U2CAE51/ U2CAE52/ U2CAE53	Revised Revised Revised
	Elective 2	Embedded Systems / Computer Algorithms / Cloud Computing	5	5	25+75=100	U2CAE54/ U2CAE55/ U2CAE56	Revised Revised New
	SBE-5	Employability Skills	2	2	25+75=100	U1PS51	No change
	NME-1	Fundamentals of Information Technology	2	2	25+75=100	U2CAN51	New

Semester	Part	Subject	Hrs	Cr	Int+Ext= Total	Subject Code	Status
	Core18	Software Engineering	4	4	25+75=100	U2CAC61	Revised
	Core 19	Dot Net Programming	4	4	25+75=100	U2CAC62	Revised
	Core 20	Cryptography	4	3	25+75=100	U2CAC63	Revised
	Project and Viva Voce	Project and Viva Voce	5	5	40+60=100	U1CA6PV	No change
VI	Core 21 – Lab	LAB: Dot Net Programming	5	3	40+60=100	U2CAC6P1	Revised
	Core 22 – Lab	LAB: Multimedia	4	2	40+60=100	U2CAC6P2	Revised
	SBE-6	Mobile Application Development	2	2	25+75=100	U2CAS61	New
	NME-2	Introduction to Multimedia	2	2	25+75=100	U2CAN61	New

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Course Name : Bachelor of Science

Discipline : Microbiology

(Those who join in 2015 and after)

Sem	Part	Subject	Hrs	Cr	Int+Ext= Total	Subject Code	Status
V	Core 9	Microbial Genetics and Molecular Biology	4	4	25+75=100	U2MBC51	Revised
	Core 10	Environmental and Agricultural Microbiology	4	4	25+75=100	U2MBC52	Revised
	Core 11	Medical Microbiology	4	4	25+75=100	U2MBC53	Revised
	Core 12 Lab	Major Practical III LAB: Environmental, Agricultural and Medical Microbiology	6	3	40+60=100	U2MBC5P	Revised
	Allied 13	Cell Biology	4	4	25+75=100	U2MBA51	Revised
	Allied 14 Lab	Biology	2	---	--	---	---
	SBE 3	Mushroom Technology	2	2	25+75=100	U2MBS51	Revised
	SBE 4	Employability Skills	2	2	25+75=100	U1PS51	No change
	NME 1	Entrepreneurship in Microbiology	2	2	25+75=100	U2MBN51	Revised
VI	Core 13	Recombinant DNA (rDNA) Technology	4	4	25+75=100	U2MBC61	New
	Core 14	Food and Industrial Microbiology	4	4	25+75=100	U2MBC62	Revised
	Core 15	Bioinformatics	4	4	25+75=100	U2MBC63	Revised
	Core 16 Lab	Major Practical IV	6	4	40+60=100	U2MBC6P	Revised
	Allied 15	Applied Ecology	4	4	25+75=100	U2MBA61	Revised
	Allied 16 Lab	LAB: Biology	2	2	40+60=100	U2MBA6P	Revised
	SBE 5	Microbial Nanotechnology	2	2	25+75=100	U2MBS61	Revised
	SBE 6	Pharmaceutical Microbiology	2	2	25+75=100	U2MBS62	Revised
	NME 2	Human Diseases and Diagnostic Microbiology	2	2	25+75=100	U2MBN61	Revised

Self Learning Courses:

Subject	Semester	Credit	Ext =Tot	Subject Code
Human Rights	IV	5	100 = 100	U1PS14

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Course Name: **Bachelor of Vocational (B.Voc.)**

Discipline: **Environmental Assessment and Remediation**

(For Those Who Join In 2016 and After)

Duration of the Course: Three Years

1. Course Objectives

The objective is to recognize that curriculum, course content and assessment of academic achievement play complementary roles in shaping education. The course has been designed to improve the understanding of the students about different pollution control strategies and the skills of application of remediation techniques to combat pollution in three environmental compartments i.e. water, air and soil. The course will also be dealing with the sources of pollution in water, air, soil, solid-waste, thermal and noise and the impacts these sources on the environment and health. In addition, the students will be given the training to develop the particular skills required in pollution related structured study and conservation methods.

- To study sources and classification of water pollutants.
- To study air pollution: sources and effects.
- To study sources of soil contamination and management of solid waste.
- To develop skill in practical work, experiments, equipment's and laboratory use along with collection of sample and interpretation of data for environmental Assessment.
- Make aware of natural resources and environment and the importance of conservation.

2. Eligibility for admission:

A pass in the Higher Secondary with Biology background / other streams also and its equivalent as per Madurai Kamaraj University rules.

II -Year Syllabus

COURSE SCHEME:

Sem	Subject	Hours/ Week	Credits			Int + Ext =Total	Subject Code
			Theory	Skill	Total		
III	Soft Skills Development	4	2	1	3	25+75=100	EV16T31
	Human impact on the Environment	4	2	1	3	25+75=100	EV16T32
	Environmental Pollution- II	4	2	1	3	25+75=100	EV16T33
	Air Quality Assessment & Remediation	5	3	1	4	25+75=100	EV16T34
	Climate change and Carbon Sequestration	5	3	1	4	25+75=100	EV16T35
	Lab: III Air Quality Assessment I	10	0	5	5	40+60=100	EV16P31
	Internship	8	0	4	4	50(Internal)	EV16ISP3
	Industrial Visit	2	0	1	1	20(Internal)	
	Project Work	6	0	3	3	30(Internal)	
	Total		48	12	18	30	

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Sem	Subject	Hours/ Week	Credits			Int+Ext =Total	Subject Code
			Theory	Skill	Total		
IV	Remote sensing and GIS	4	2	1	3	25+75=100	EV16T41
	Air Pollution Control Technologies	4	2	1	3	25+75=100	EV16T42
	Hazardous Waste Management	4	2	1	3	25+75=100	EV16T43
	Bioremediation	5	3	1	4	25+75=100	EV16T44
	Indoor Environment Monitoring	5	3	1	4	25+75=100	EV16T45
	Lab IV : Air Quality Assessment II	10	0	5	5	40+60=100	EV16P41
	Internship	8	0	4	4	50(Internal)	EV16ISP4
	Industrial Visit	2	0	1	1	20(Internal)	
	Project Work	6	0	3	3	30(Internal)	
Total		48	12	18	30		

**Semester – 3
Soft Skills Development**

Contact Hours per week : 4

Contact Hours per semester : 60 (Theory 30 + Skill 30)

Subject Code: EV16T31**Credits:3 (2 Theory +1 Skill)**

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Section- A: Theory (2 credits)
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Contact Hours: 30**Objectives:**

- To develop effective communication skills, presentation skills, self-confident individuals by mastering inter-personal skills, team management skills, and leadership skills.

Unit I Introduction**6 Hours**

Meaning of soft skills – Soft skills versus hard skills – The importance of soft skills in the competitive job market today – Selling your soft skills – Attributes regarded as soft skills – Identifying your soft skills – Enhancement of your soft skills through training.

Unit II Resume preparation**6 Hours**

What is resumming? – The importance of a resume in an interview – Details to be included in a resume – Do's for resume preparation – Don't for resume preparation – Resume preparation for freshers – Resume preparation for candidates with experience.