

இளங்கலைத் தமிழ் முன்றாம் ஆண்டு - ஆறாவது பருவம்

Penniyam

விருப்பப் பாடம் - தாள் -111 பெண்ணியம் (அல்லது)

lnaiya Tamil llakkiyam இணையத் தமிழ் இலக்கியம்

- பெண்ணியம் விளக்க வரையறை பெண்ணியத் தோற்றம். வளர்ச்சி. வரலாறு - இன்றைய நிலை — நோக்கும் -போக்கும்.
- மேலைநாட்டுப் பெண்ணியவாதிகள் அவர்களது எழுத்தாக்கங்கள் -இந்தியப் பெண்ணிய வாதிகள் - இந்தியச் சமூகச் சீரமைப்பு இயக்கங்களும் பெண் மேம்பாட்டிந்கான செயலபாடுகளும் -தமிழகத்துப் பெண்ணிவாதிகளும் அவர்களது இலக்கிய அக்கங்களும்.
- அலகு 3- சங்க கால மகளிர் நிலை பணிப் பகிர்வு மனைவாழ்க்கை விருந்தோம்பல் - உழத்தி - ஆபமகளிர், பூவிலைப் பெண்டிர், அரச மகளிர் - புலமை நலமிக்க பெண்புலவர்கள் - உமட்டியர் - சிறு.குறு தொழில் புரியும் மகளரா - புறவாழ்வில் மகளிர் பங்கு — ஆடை, -அணிகலன்கள்,ஒப்பனைகள், கலைத்துறை நாட்டம் - மகப்பேறு --வாழ்வியல் அறங்கள் - பண்பாடு போற்றல்.
- 🕬 💠 பாரதியாரின், பெண் விடுதலை சார் கட்டுரைகள் பத்து மட்டும்.
- 4லகு 5- பெண் நலவாழ்வு சார் சட்டங்களும், பெண் நலம் பேணும் அரசின் கொள்கைகளும், செயல் திட்டங்களும் - மகளிரை மேம்படுத்துவதில் இக்காலத் தமிழ் இலக்கியங்களின் பங்கு.

กรุงสุรสา

- பெண்ணியம், இரா. பிரேமா, சென்னை, தமிழ்ப் புத்தகாலயம்.
- பெண்ணியல், அன்னை தேரசா மகளிர் பல்கலைக்கழக வெளியீடு.

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தான் 18 : LTAEH - நாட்டுப்புறவியல் - (Elective -D

Срадимиличей

- t, pan Gingo Kandalaniasasas -nfigai
- 2. Juli (Giago Bardalaramananana subgai
- நவர்டும் முக் எணைவை அறிமும்.
- 4. уль. Сітрі талайді атрайның қазауда
- அன்கு 1 நாட்டுப்புறவியல் விலக்கம் பண்புகள் நாட்டுப்புற இலக்கிய வகைகள நகட்டுப்பூர் பாடல்கள் நாட்டுப்புறம் மனதாள் நாட்டுப்புறக் கறைப்பாடல்கள் பழமொழிகள் விடுகரைகள்
- நாட்டுப்புறக் கைவினைப் பொருட்கள் அளஞ் - 2 நாட்டுப்புற மருத்துவம் - புழுங்கு பொருட்கள்
- நாட்டுப்புற இலக்கியமும், எழுத்து இலக்கியமும் ஒற்றுமை, வேற்றுமைக 34FUE - 3 op@complessi - எழுத்திலக்கியத்தில் நாட்டுப்புற இலக்சியத்தின் செல்லாக்கு
- நாட்டுப்புமக் கணைன்
- விளையாட்டு. தொழில்கள், சடங்குகள் CHANG

LITTLE BOTTON

க.சத்திவேல், நாட்டுப்புறவியல் ஆய்வு - செல்லை, மணிவாசார் புதியகல் пациями висовини

அரு இராவுக்குன்,(தொ.ஆ.) நமிழக நாட்டுப்புரப்பாடல்கள் தொகுதி 1-10, சென்னை, மணிவாசமர்

ம் இத்தில் நார்கள் நார்கள் நார்கள் நார்கள் கூறுக்கள் தொகுதி 17, சென்னை, மணிவாகம் மூரிகாகம் கூறிக்கும் ஒன்றுக்க

இளங்கலைத் தமிழ் இரண்டாம் ஆண்டு - முன்றாம் பருவம் சார்புப் பாடம் III – தமிழக வரலாறும், பண்பாடும்

- அலகு 1: தமிழக நிலவியல் கூறுகள் வரலாற்று மூலங்கள் தொல் பழங்காலம் -பண்டைத் தமிழகம் - சிந்து வெளி நாகரிகத் தொடர்பு – தமிழ் மொழியின் தொன்மை – கிழுர அகழ்வாய்வுச் சான்றுகள் - முச்சங்க வரலாறு – சங்க காலத் தமிழகமும், மூலேந்தர் மரபுப், குடிகளும், தமிழகத்துக்கும் நந்த மோரியர்களுக்கும், ரோமாவிய யவனருக்கும் உன்ப நோடர்புகள் கடல் வணிகம் - சங்க கால மக்கள் வாழ்க்கை, அரசியல், போர்முறை, சமூகழ், கல்லி, கலைகள், பொருளாதாரம் - சடங்குகள் - சருனங்கள் - நம்பிக்கைகள் திருவீழாக்கள் - வழிபாடுகள்.
- அலகு 2: சங்கம் மருவிய காலம் களப்பிரர் வகுகை பல்லவர்கள் முற்கால. இடைக்கால, பிற்காலப் பல்லவர்கள் ஆட்சி – குடைவரைக் கோவில்கள் - தோற்றம் - பக்தி இலக்கிய எழுச்சி – சைவ வைணவ பக்தி இயக்கம் - சமய அரசியல், பொருளாதார நினை – கோயில் கட்டிடக் கலை வளர்ச்சி,மக்கள் வாழ்வியல் - கல்வி – பண்பாடு.
- தலத் 3: சோழர் காலம் பொற்காலம் சோழர் சாளுக்கியர் உறவு நிலை தென் கிழக்கு ஆசிய நாடுகளை லென்றமை - சோழர் ஆட்சி முறை - குடவோலை முறை -சோழர் காலச் சமூகப் பண்பாட்டு, அரசியல் சமயப், பொருளாதார நிலை - கலைகள் -கோயில்கள் தஞ்சைப் பெரிய கோயில் சார் கலைகள் பாண்டியர்களது எழுச்சி - சோழ -பான்டியர் உறவு - அயல்நாட்டுப் பயணிகள் கண்ட தமிழகம் - நாயக்கர் காலம் -தமிழகத்தில் மாலிக் காயூர் படையெடுப்பு - விசய நகர ஆட்சியின் விளைவு - தஞ்சை மராட்டியர்கள் - கர்நாடக நவாபுகள் ஆட்சியில் தமிழகச் சூழல்.
- அவது 4: ஐரோப்பியர் வருகை ஆற்காடு, தஞ்சை அரசர்களுடன் ஆங்கிலேயர் கொள்கை பாளையக்காரர் எழுச்சி – கிழக்கிந்திய கம்பெளி அதிகாரம் - விடுதலைப் புரட்சி – கல்வி முறை – நீதி, நிர்வாக நடைமுறை.
- அலகு 5: விடுதலைக்கு முந்தைய தமிழகம் இலக்கிய வளர்ச்சி பத்திரிக்கை வளர்ச்சி ஐரோப்பியரது தமிழத் தொண்டு - இந்திய விடுதலை இயக்கத்துக்குத் தமிழகத்தின் பங்கு • -சமய, சமுகச் சீர்திருத்த இயக்கங்கள் - இந்திய விடுதலைக்குப் பீன் தமிழகம் - மொழி வழி · மாநில உருவாக்கம் - தமிழ் இயக்கங்கள் - சமுகப் பொருளாதார மாற்றங்கள் - தமிழ் இலக்கியப் போக்குகள் - தமிழ் இதழ்கள் நாடகக்கலை – திரைப்படங்கள், தமிழ் ஊடகங்கள், தமிழ் இசை எழுச்சி.

LITE THE BOY

கே. கே. பிள்ளை, தமிழக வரலாறும் பண்பாடும்

வே தி. செல்லம், தமிழக வராலாறும், பண்பாடும்.

Sorostorwings.

தாள்-4)- UTAS64 - (Skill based Studies - IV) — இணையத் தமிழ் இலக்கியம் நோக்கங்கள்:

- 1. இணையந் தமிழ் இலக்கியத்தை அறிமுகம் செய்தல்
- 2. இணைய மின் இதழ்களை அழிதல்
- 3. இணையத் தமிழ்த் தளங்களைக் கண்டறிதல்
- ர். பதிவேற்றம், பதிவிறக்கம் செய்ய அறிதல்
- அலகு ட இணையம் தேடுபொறி தமிழ் எழுத்துரு பதிவிறக்க முறைகள் தமிழ்வழி இணையத்துள் புகுதல்
- அலகு : தமிழ் விக்கிப்டியா விக்சனரி தமிழ் உள்ளடக்கப் பதிவிறக்கம்- பதிவேற்ற நெறிகள்
- அலகு தமிழில் மின்னஞ்சல் அனுப்புதல் பெறுதல் -இணையத் தமிழ்த் தளங்கள் பத்தினைக் கண்டறிதல்
- அலகு இணைய மின் இதழ்கள் ஐந்தினைப் பார்வையிடல் அவ்விதழ்களின் உள்ளடக்கம் பற்றி ஐந்து பக்கங்களுக்கு எழுதிச் சமர்ப்பித்தல்

அலகு 5 இணைய மின் நூலகங்கள் ஐந்தினை அறிதல் இணைய நூலகங்களில் ஒரு தமிழ் நூலைத் தேடிக் கண்டறிந்து பதிவிறக்கம் செய்ய அறிந்திருத்தல் பாடநூல்

டாக்டர் இராதா செல்லப்பன் தமிழும் கணினியும் கவிதை அமுதம் வெளியீடு திருச்சி

பார்வை நூல்

துரை, மணிகண்டன் - தமிழ்க் கணினி இணையப் சுச்ச மங்கலம் கமலினி பதிர்மகம்

POSTONIA HOLE AND CONTRACTOR

தாள் 25 : UTAL42 - இதழியல் - (Liective - II)

Сптавления

- L Sagium மற்ற அற்றகள் சொழக்
- 2 திருந்கள் நடத்தும் முறைகளை அறிதல்
- 3 இந்நியல் வட்டங்கள் மற்றும் கழத்திரம் பற்றி அறிதல்
- 4. இதுசெயலாளராக உருவாரும் ஒதுநிரைப் பெறுதல்
- அம்கு 1 இந்டுயல் தோற்றம் வகைகள் வளர்ச்சி இன்றைய நிலை இ இதழ்கள் - தமிழ் இதழ்கள் - வளர்ச்சி வரவாறு - தமிழ் இதழாகம் திரு.வி.க. அறிஞர் அண்ணா பெரியர் - சி.பா. ஆதிந்தனர் -ஏ.வவ் சிவராமன் - கி.வா. ஐகந்நாதன் - கல்கி ஏ.எஸ். அண்ண வரசன் - தமிழ்வாணம் தமிழ் இலக்கிய இதழாளர்கள்.
- அளது 2 செய்றி முலங்கள் செய்றி சேகரித்தல் செய்றி நிறுவனங்கள் நி. தகுதிகள் - கடமைகள்.
- அலகு 3 செய்தி கட்டமைப்பு தலைப்பு முதல் பத்தி உடல் பகுதி தர - செய்தி வகைகள் – பக்க அமைப்பு
- அலகு 4 பதிப்பாசிரியர் ஆசிரியர் குழு இதழ் நிர்வாகம் விஎம்பரங்கள் -– வாசகர் கடிதம்
- அலகு 5 இதழியல் சட்டங்கள் இதழியல் சுதந்திரம் இந்திய விடுதலைக்கு இ பங்கு - இன்றைய தமிழ் இதழ்களின் நோக்கும் போக்கும்.

LITELIER CO:

- மா.பா.குருசாமி இதழியல் கலை,திண்டுக்கல், குரு பறிப்பகம்
- 2. மா.க.சம்பந்தன் தமிழ் இதழியல் வரலாறு, சென்னை, ஐந்திணைப் பதிப்பகம்

பார்வை நூல்கள்:

அ.ஆலிஸ் - இதழியல் - நகவலியல் அகராதி, திருச்சி

Too form the many former and

நாள் 34 : UTAS53 - கல்லெட்டியல்-

(Skill based studies - III)

Constanted:

- 1. கல்னேற்றல் குறித்த அறிமுகர் பேறுகள்
- மல்வெட்டுக்களின் வகைகளை அறிதல்
- கல்லெட்டு, செய்யேடு, சாசனம், போய்க்கிர்த்தி என்னும் பறிவு எனைகளை உணர்கள்
- d. கேரு, சோழ், பாண்டியர் காலத்து அரசியன், சமூக நிகழ்வுகளை அதிதன்
- அதை 1 கல்வெட்டுக்கள் நடுகல் கல்வெட்டுக்களின் வகைகள் நோக்கம் நமிழ கல்வெட்டுகளின் தோற்றம், வளர்ச்சி, வரலாறு
- அலகு 2 கல்வெட்டுத் தமிழ் பிராமிக கல்வெட்டு குகைக் கல்வெட்டு கல்வெட்டுகள் – செப்பேடுகள் – சாசனங்கள் – மெய்கீர்த்திகள் – பதிவு செய்ய செய்திகள்
- அலரு 3 பழங்காலக கல்வெட்டுச் செய்திகள்
- அலகு. 4 சோழர் காலக் கல்வெட்டுச் செய்திகள்
- அலகு 5 பிற்காலக் கல்லெட்டு ஆவணங்கள் தமிழகக் கல்வெட்டியல் துறை வெளியீடுகள்

பாடநூல்:

தமிழகக் கல்வெட்டியல் துறை ஆவன வெளியீடுகள்

பார்வை நூல்:

இரா.நாகசாமி, தமிழ்க் கல்வோட்டுகள், சென்னை, கல்வெட்டியல் துறை வெளியீடு

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தான் 27 : UTAS42 – கலைச் சொல்லாக்கமும் தொழில்றுட்பத்தமிழும் -(Skill Based Studies - II)

Condania di

- கணக் சொல்லாக்கம் குறித்து அறிமுகம் செய்தல்
- மனைச் சொல்லாக்க முறைகளை அடுதல்
- நடைகங்கள் குறித்து அறிதல்
- 4. ஹோநில் நட்பத் தமிழ் முறித்து உணர்தல்
- அமரு 1 கலைச் சொல் விளக்க வரையறை பொழிபெயர்ப்பில் புதற் பொறகளை உருவக்கும் அவசியம் - நைடாவில் சொழிபெயர்ப்பு விதிகள்
- அலகு 2 தமிழக கலைச் சொல்லாக்க முறைகள்
- அளது 3 அறிவியல் கலைச் சொல்லாக்க விதிமுறைகள் கலைத்துறை கலைச் சொல்லாக்க விதிமுறைகள்
- அலகு 4 ஊடகங்களும் தொழில் நூட்பத் தமிழும் அச்சு ஊடகம் மின் ஊடகம் -வானொலி – தொலைக்காட்சி – திரைப்படம் - தொலைவரி – தொலைநபலி செயற்கைச் சோவ் - கணினி - இணையம் - வலைதமம் - முகநால் -மின்னஞ்சல் - கைபேசி – பிற சாதனங்கள்.
- அலகு 5 அவரன் பாடத் துறை சார்த்த பத்து தொழில் நுட்பச் சொற்களுக்குத நக்க தமிழ்க் கலைச்சொற்களை உருவாக்குதல்

பாடநூல்

முன்னவர் இராதா செல்லப்பன், கலைச்சொல்லாக்கம் - திருச்சி, மனி அமுதம் வெளியிடு

பார்வை நூல்:

SENDANCE SON MENT CEXTRACT

சௌ.மதார் மைநீன், பணிவாய்பாழ் தமிழ், பெள்ளை, நியு செஞ்கரி புக் ஹவுவர்

1

இளங்கலைத் தமிழ் இரண்டாம் ஆண்டு – நான்காம் பருவம

Job Oriented Course Paper – II - Language Skills -பணி சார் பாடம் - மொழித் திறன் -II தான் - மொழி பெரம்பியல்

அளகு — : பொழிபெயர்ப்பு - மூலமொழி - இலக்கு மொழி — மொழிபெயர்ப்பின் தேவையும், பயதும் - மொழிபெயர்ப்பாளர் தகுதிகள் - தமிழ் மொழி பெயர்ப்பின் வரலாறு.

அவரு — 2 மொழிபெபர்ப்பு வகைகள் முழுநிலை மொழிபெபர்ப்பு —
பகுதி நிலை மொழிபெபர்ப்பு —
பெரல் நேர் மொழிபெபர்ப்பு —
கட்டில்லா மொழிபெபர்ப்பு —
நருவல்

அதை — 3 படைப்பிலக்கிய மொழிபெயர்ப்பு — கவிதை, கதை, கட்டுரை அறிவியல் மொழிபெயர்ப்பு —

கறில்யல் மொழிபெபர்ப்பு --மருத்துவ தூல்கள் மொழிபெபர்ப்பு

க்கத் – 4 மொழிபெயர்ப்பு முறைகள் - மொழிபெயர்ப்புக் கருவிகள் - மொழிபெயர்ப்புச் சிக்கல்கள்

அலத — 5 மொழிபெயர்ப்புப் பயிற்சி — உரைநடை, கதை

ஐந்து வாக்கியங்கள் தந்து தமிழிலிருந்து ஆங்கிலத்துக்கு மொழி பெயர்க்கச் செய்தல் ஐந்து வாக்கியங்கள் தந்து ஆங்கிலத்திலிருந்து தமிழுக்கு மொழி பெயர்க்கச் செய்தல்

LITEL IST GOOD GIT:

- வளர்மதி, மொழிபெயர்ப்பியல்
- 2 க. சண்முக வேலாயுதம், மொழிபெயிப்பியல்
- கா. பட்டாபிராமன் மொழிபெயர்ப்புக் கலை
- சேதுமணி மணியன் பொழிபெயர்பியல் கோட்பாடு
- நா. முகமது செர்ப் மொழிபெபர்ப்பு வழிகளும் வாய்ப்புகளும்

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தாள்: 7 சுற்றுலாவியல் (SBE)

கற்றுலாவியல் → விளச்சு வரையறை – சுற்றுவா வளர்ச்சி வரலாறு

கற்றுலா வகைகள் ஓய்வுச் சுற்றுலா – கல்விச் கற்றுலா – ஆன்மீகச் சுற்றுலா – விடுமுறைச் சுற்றுலா. சுற்றுலாவும் பொருளாதார வளர்ச்சியும் - தேசிய வருவாய் பெருக்கம் • வேலைவாய்ப்பு – சுற்றுவா சார்ந்த துறை வளர்ச்சி

இந்தியாவில் சுற்றுவா – சுற்றுவாத் தலங்கள் கற்றுலாத்துறை – சுற்றுலா மேம்பாட்டுத் திட்டங்கள் -கற்றுலாவும் சூழல் பாதுகாப்பும்

பயிற்சி – புகழ்பெற்ற சுற்றுலாத் தலங்கள் பற்றி அறிதல் • பக்தி இலக்கியங்கள் • நாயன்மார்கள் • ஆழ்வார்கள் ஆன்மீகத் தலங்களை நாடிச் சென்று வழிபட்ட பாங்கினை எழுதுதல்.

ஆர். சாந்தகுமாரி, சாந்தா பப்ளிகேஷன்ஸ், சென்னை

தான்: 8 விரிவாக்கச் செயல்பாடுகள் (NSS, NCS, SPORTS,...) விருப்பப்பாடங்கள் பட்டியல்

ஈட்டுப்புறவியல்

வன்கள் ியம் அறிவுகம் மக்கிய வரலாள ுக்கிய வரலாறு டயியல்

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தான் 19 : UTAN31 – பணியைப்புத் தமிழ் - (Non-major Elective - Course - I) நோக்கள்கள்:

- தமிழ் மொழியின் அடிப்படை இலக்கணம் அறிதல்
- சொற்கவின் இயல்பு மற்றும் வகைகளை அறிதல்
- 3. பயன்பட்டுக் தமிழ் அறிந்து தேர்தல்
- பேச்சுமெழி, எழுத்துமொழி, இலக்கிய மொழி அறிவு பெறுதல்
- அறை 1 தமிழ் மொழியின் அழியடை இலக்களைச் எழுத்து சொல், பொருள், எபப்பு, அவர் இலக்களைக்
- அல்கு 2 தமிழ்ச் சொற்கள் பொல், விலை, இடை, உயிச்சோல் இயற்கொல் நிரைச்சொல் -நிரிமோல் - வடசொல் - பகுபதம் - பசாபதம் - அவச்சோல் - பகுதி விகுதி – சந்தி – சாலிலய – உருபுகள்.
- அல்கு 3 9 பார்தினை அட்தினை பால் எண் இடம் இபைபு தமிழ்த் தோம் வகைகள் - எழுவாய் - பயவிலை - செயப்படுபொருள் - ஒரேருத்து ஒரு பொழி ஒரு போருள் பண்பொழி.
- அதை 4 உலக வழங்கு செய்யுள் வழங்கு பேச்சு வெளழி வழத்துமெயும் மரபுந் தொடர்கள் - விளார், தொடர் - நேர்கூற்று - அயற்கூற்று
- அழை 5 புகழ் பெற்ற இலக்கியம் சார்ந்த தரவுகள் தொல்காப்பியம் சங்க இலக்கியர் -அறு இலக்கியர் - தமிழ்க் காப்பியர் - பக்தி இலக்கியர் - சிற்றிலக்கியர் - இத்தால இலக்கியர் - (இலக்கிய நூல் - பாடியோர் - பாடப்பட்டோர் - உள்ளடக்கர் - சிறந்த மேற்கோன் கண்டறியும் அணவிற்குச் சுருக்கமாகத், தெரிந்திருத்தல் வேண்டும்.

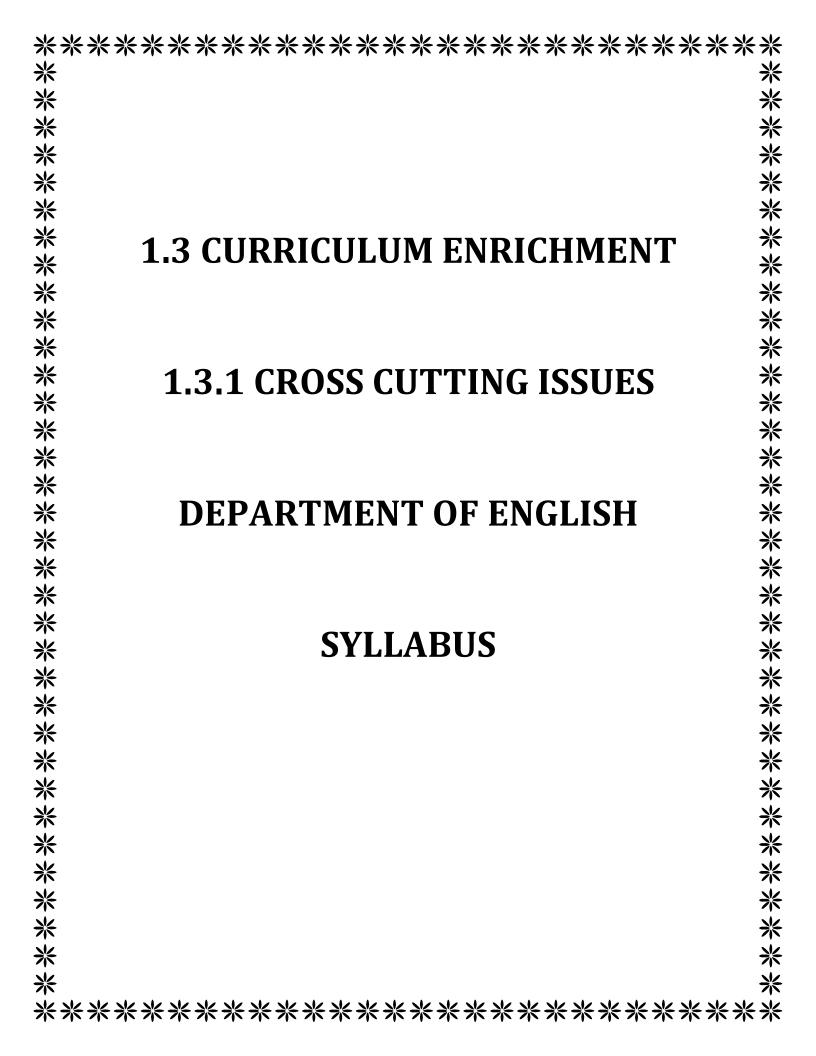
பாடநால்:

சென். மத்தார் வைதின் - பயண்முன்றத்துகிழ் - 1995 — நியூ செஞ்கரி புக் ஒருவர் வெளியீடு

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மு. வரது பாணர், தமிழ் இலக்கிய வரலாறு, புநறில்வி, காமித்திய அகாதெமிவெளியிடு தமிழன்னன் - புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு

16



M. V. MUTHIAH GOVERNMENT ARTS COLLEGE FOR WOMEN, DINDIGUL

PG & RESEARCH DEPARTMENT OF ENGLISH

CROSSCUTTING ISSUES

Course Code P21ENT15 CORE-V	WOMEN'S WRITING L T P C 5 4					
Cognitive Level	K1: Knowledge K2: Understand K3: Apply K4: Analyze K5: Evaluate K6: Create					
Learning Objectives	make students understand Gender and Women's Studies as an academic field of study be familiar with its major concepts, history, assumptions, and theories/theorists, and recognize its epistemological and methodological diversity and character. analyze the ways in which societal institutions and power structures impact the material realities of women's lives. evaluate information derived from various women's writing. interpret information from a variety of sources including Print and electronic media, film, video, and other information technologies and Cater to the needs of women in Society proactively.					

Unit - I: Poetry:

Judith Wright – Woman to Child, Legend Maya Angelou – Phenomenal Woman Elizabeth Barrett Browning –How do I love thee? Anne Finch – How shall I woo thegentlest P.K. Page – Adolescence

Unit - II: Prose:

Virginia Woolf – A Haunted House Meena Alexander – Fault Lines Bessie Emery Head – Heaven is not closed

Unit - III: Drama:

Charlotte Keatley - My Mother said I never should

Unit - IV: Fiction:

Miles Franklin - My Brilliant Career

Unit - V: Criticism:

Simon de Beauvoir - The Second Sex - "History" from Volume - I John Stuart Mill - On the Subjection of Women

Books for Reference:

- Kuumba, M. Bahati. (2003). "Gender and Social Movements". Rawat Publications, New Delhi.
- Peterson.H. Linda, The Cambridge Companion to Victorian Women's Writing. Cambridge University Press. 2015.

E- Reference:

https://books.google.co.in/books?id=_72TCgAAQBAJ&lpg=PP1&pg=PP1#v=onepage &q&f=false

COURSE OUTCOME

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

K1,K2	COI	gain knowledge of the literary texts across genres, historical periods and cultural contexts
K1,K2	CO2	understand the range of feminist perspectives, towards the gender issues
K3,K4	CO3	analyze the common and particular challenges that women face
K4,K5	· CO4	evaluate the standards of the society and the result of them on the womenfolk
K3,K6	CO5	become creative writers and voicing out their views

Dr. P. ENOLA ARUTCHELVI PARVATHA

OPER PROPERTY DE LA

Associate Professor & Head PG & Research Department of English M.V. Muthiah Government Arts College (W) Dindigul-624 001

Course Code P21ENT24 CORE IX	SUBALTERN LITERATURE L T P C 5 - - 4
Cognitive Level	K1: Recall K2: Understand K3: Apply K4: Evaluate K5: Analyze K6: Create
Learning Objectives	Course aims to have a wider knowledge of the trials and tribulations endured by downtrodden people enhance their ability to read text analytically to understand the social discrimination cultivate ability to analyze the elements and strategies of various genres comprehend literary writing as a platform for recording the voice of the voiceless evaluate the power of creative writing as a means to recover and to redeem one to get better job.

Unit - I: 20th Century

John Betjeman-A Subaltern's Love Song

Gabriel Okara -Once upon a Time

MervynGooneratne -There was a Country

Langston Hughes-The Negro Speaks of Rivers

Unit - II: Middle Age

Chinua Achebe- "The Trouble with Nigeria" (pp. 22 - 64) from An Image of Africa Homi.K. Bhabha -The Location of Culture

DipeshChakraborty-A Small History of Subaltern Studies: 2000 from Habitation of modernity: Essays in the Wake of Subaltern Studies. (pp3-19)

Nadine Gordimer - Once Upon a Time

BaburaoBagul- Mother

Unit - III: Drama

George Ryga -The Ecstasy of Rita Joe

Unit - IV: Fiction

BapsiSidhwa -The Crow Eaters

Course Code P21ENT24	L T. P. C				
CORE IX	SUBALTERN LITERATURE 5 4				
Cognitive Level	K1: Recall K2: Understand K3: Apply K4: Evaluate K5: Analyze K6: Create				
Learning Objectives	Course aims to have a wider knowledge of the trials and tribulations endured by downtrodden people enhance their ability to read text analytically to understand the social discrimination cultivate ability to analyze the elements and strategies of various genres comprehend literary writing as a platform for recording the voice of the voiceless evaluate the power of creative writing as a means to recover and to redeem one to get better job.				

Unit - 1: 20th Century

John Betjeman-A Subaltern's Love Song

Gabriel Okara -Once upon a Time

MervynGooneratne -There was a Country

Langston Hughes-The Negro Speaks of Rivers

Unit - II: Middle Age

Chinua Achebe- "The Trouble with Nigeria" (pp. 22 - 64) from An Image of Africa Homi, K. Bhabha - The Location of Culture

DipeshChakraborty-A Small History of Subaltern Studies: 2000 from Habitation of modernity: Essays in the Wake of Subaltern Studies. (pp3-19)

Nadine Gordimer - Once Upon a Time

BaburaoBagul- Mother

Unit - III: Drama

George Ryga -The Ecstasy of Rita Joe

Unit - IV: Fiction

BapsiSidhwa -The Crow Eaters

Unit - V: Postcolonial Age

GayathriSpivak - Can the Subaltern Speak? Richard Wright - Blue Print for Negro Writing

Reference:

- Deivasigamani, T. Subaltern Discourses, MJP Publisher, 2019.
- Morris, Rosalind. Can the Subaltern Speak?: Reflections on the History of an Idea. Columbia University Press. 2010,

E-Reference:

- https://books.google.co.in/books?id=TzmbDwAAQBAJ&lpg=PP1&pg=PP1#v=onepage &q&f=false
- https://books.google.co.in/books?id=cXInuU4BUDYC&lpg=PP1&pg=PP1#v=onepage &q&f=false

Course Outcomes

Upon completion of this course, the students will be able to

K1,K2,K4	COI	gain knowledge of the marginalized, oppressed and exploited on the cultural, political, social and religious grounds
K3,K4,K5	CO2	comprehend the themes such as oppression, marginalization, gender discrimination, subjugation of lower and working classes
K2,K4,K3	CO3	analyzethe condition of the third world countries and the marginalized groups in the society
K1,K2,K3,K4	CO4	evaluate the political and cultural autonomy of the people who were subdued in colonial domains, as reflected in literature
K4,K5, K6	CO5	imbibe social consciousness of the plight of the underprivileged people and working for their welfare

Outcome Mapping

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2	PSO 3	PSO 4	PSC 5
					e	S	S	S	S	S	S	М
COI	S	S	S	S	S			S	S '	M	S	M
CO2	S	S	S	S	M	S	S	_	S	S	M	M
CO3	S	S	S	S	M	S	S	S	-	М	М	S
CO4	S	S	S	S	M	S	S	S	S		M	S
CO5	S	S	S	S	S	S	S	S	S	S	141	

Strongly Correlating (S)

Moderately Correlating (M)

Weakly Correlating (W)

No Correlation (N)

3 Marks

2 marks

1 Mark

0 mark

Dr. P. ENOLA ARUTCHELVI PARVATHA

MOTHER TERESA WOMEN'S UNIVERSITY KODAIKANAL

PG - COMMON PAPER - WOMEN EMPOWERMENT

COURSE	P21WSS33	WOMEN	L T P C
SUPPORTIVE SKILL - III		EMPOWERMENT	2 - 2
Cognitive Level	K2 – Understand Create	K3 – Apply K4 – Analyze	
Course Objectives	Empower To learn empower To uplift empower To make	the various national and interment. t women in socially, econo	national agencies for women mically and politically as nance their life

Unit 1: Fundamentals of Women's Studies

Meaning and Definition of the concept of Women's studies - Need and Scope - Women's studies as an academic discipline - Women's Studies - theories and Achievements- International Women's Year 1975 - International Women's Decade 1975 -1985; Towards Equal Status 1976 -Current trends-Importance of women's education - Efforts of various Committees -Life Skill Education to build capacity - Education as a tool of Women Empowerment - Obstacles to Women Education - Social, Economic, Cultural and other factors, limitations of Formal system of education-Role of educational institutions, Parents and Community.

Unit 2: Issues of Women

Girl Children and Women in Society: Social Networking- Influencing factors of Social Networking-Types of Social Networking- impact and consequences of networking- Remedial measures and strategies for solution- NCW: Initiatives to overcome Women's issues - Ministry of Home Affairs and Networking with State Women Commissions: Cyber Crime Prevention against Women and Children (CCPWC)-challenges - efforts & effective measures to prevent crime against women and children - create awareness for social issues. Motherhood - Single Parent - Widows -Multiple Roles of Women - Role conflict, Role change - Social Responsibility and Gender Empowerment.

Unit 3: Achievement and Rights of Women

Gender Equality: Achievement of Women - Educational, Political, Economic, Social - Panchayat Raj - Political role and participation - National and International Levels; Women's Rights -Property Rights - Redressal mechanism at different levels - Rights of Women with Disability: Case Studies on Women Achievers in the field of politics, education, arts science, law etc.

12 Empowerment of Women 12/1 4: Empowerment of Women: Alternative approaches - Women in Development (WID) - Women and part of WAD) - Women's Development Definition, Meaning and Scope, Gendar Of Cope, Gendar Of Cope 13th Franciscon of Women. The Action of Women in Development (WID) - Women and proceeding the WAD) - Women's Development Index (HDI) vs Gender Development Index (Option) (GAD), Human Development Index (HDI) vs Gender Development Index (Option) (Development Index (Option) (Developme process (WAD) - Human Development Index (HDI) vs Gender Development Index (GDI). Women and process (GAD). Human Development Index (HDI) vs Gender Development Index (GDI). pyrelopment (GAD), Francia and Francia and Francia and Scope, Gender and Political and Francia and Scope, Gender and Political and Francia and NGOs - Help line numbers in promoting women's empowerment and Holistic levels-Role and NGOs - Agencies in promoting research on women's empowerment - National Agencies in promoting research on women's empowerment - National Role person Empowerment. See the numbers in promoting women's empowerment - National and MGOs - Help line numbers in promoting women's empowerment - National and

Init 5: Women Entrepreneurship

Tail 5: Women Entrepreneurship:— Types of Entrepreneurs Opportunities and Risk - Push and Pull Women - financial Assistance and credit facilities - Micro finance - Entrepreneurship of the Company - financial Assistance and credit facilities - Micro finance - Entrepreneurship of the Company - financial Assistance and credit facilities - Micro finance - Entrepreneurship of the Company - financial Assistance and credit facilities - Micro finance - Entrepreneurship of the Company - financial Assistance and credit facilities - Micro finance - Entrepreneurship of the Company - financial Assistance and credit facilities - Micro finance - Entrepreneurship of the Company - financial Assistance and credit facilities - Micro finance - Entrepreneurship of the Company - financial Assistance and credit facilities - Micro finance - Entrepreneurship of the Company - financial Assistance - financial - f Women Entrepreneurship Development in India: TRYSEM TRYSEM Figures - financial - former in Entrepreneurship Development in India: TRYSEM - NABARD - Support to STEP - TREAD - Rural Entrepreneurship Development in Development in India: competencies - West and STEP - TREAD - Rural Entrepreneurship Development Programme - Name - Mahila bank and supportive measures - Industrial Development Programme -MEW - Support ...

Support ...

Bank -Mahila bank and supportive measures- Industrial Development Programme - Grantia Bank of India - SHG and Entrepreneurskie - Support Report - Support (pBI) - Small Industries Development Bank of India-SHG and Entrepreneurship opportunities -

References

- 1. Rani Sandhya, "Development of Women Issues and Challenges", Discover Publishing
- Anil Kumar Jha, "Gender Inequality and Women Empowerment", Axis Books, New Delhi,
- NandalSantosh, "Women and Development", A Mittal Publications, New Delhi, 2012
- 4. RaoPulla, "Political Empowerment of Women in India Challenges and Strategies", ABD Publishers, New Delhi, 2012.
- 5. Jenny Edwards, Andrea Cornwall, et al., "Feminisms, Empowerment and Development: Changing Women's Lives", Kindle Edition, 2014.
- 6. Elson Diane, et al. "Gender Equality and Inclusive Growth: Economic Policies to Achieve Sustainable Development", UN Women, 2019
- 7. Priyanka Sharma Gurnani, "Women Entrepreneurship Emerging Dimension of Entrepreneurship in India" Educreation Publishing House, New Delhi, 2016.

Course Outcome

On successful completion of the course teacher educators will be able to

CO1: gain knowledge about the concept, need and scope of women's studies.

CO2: acquaint and analyze issues of women in various contexts.

CO3: understand changing role of women in society and issues related to it.

CO4: understand the importance of women's education.

CO5: comprehend empowerment of women and their achievement.

96600020000000008 Dr. P. ENOLA ARUTCHELVI PARVATHA Associate Professor & Head PG & Research Department of English M.V. Muthiah Government Arts College (W) Dindigul-624 001

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		_		ON	MARK
			_	44.8	TV A

Course Code P21ENE412 ELECTIVE I-Option-2	PRESENTATION SKILLS
Cognitive Level	K1: Recall K2: Understand K3: Apply K4: Evaluate K5: Analyze K6: Create
Learning Objectives	The course aims to consider ways of grabbing the listener's attention, holding their interest, and concluding strongly. use body language and tone of voice to enhance their presentations. market the skill of presentation to fix themselves in better jobs use slides and visual aids effectively.

Unit - I: Speech Format

Welcome Address

Vote of Thanks

Keynote Address

Convocation Address

Unit - II: Types of speech

Great Speeches (any 3)

Soliloquies/ Monologues (any 3)

Great Poems (any 3)

Unit - III: Effective writing

Motivational Writing

Argumentative Writing

Unit - IV: Kinds of Writing

Narrative Writing

Descriptive Writing

Unit – V: Literary Adaptation

Conversion of a Story into Drama

Conversion of a Drama into a Story

Book Recommended: Brown Michael: Making Presentations Happen. Allen &Unwin, Australia, 2004.

Course Outcomes

lipon completion of this course, the student will be able to

K1,K2,K4	CO1	gain knowledge of the various modes of official correspondence and presentation
K3,K4,K5	CO2	comprehend the right use of English at official
K2,K4,K3	CO3	apply the acquired styles of occupational skills and
K1,K2,K3,K4	CO4	pick up the official behaviour and becoming better
K4,K5, K6	CO5	market the skill business correspondence and fixing themselves in better jobs

Outcome Mapping

PO PO	POI	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	S	S	S	S	S	S	S	e		-		
CO2	S	S	S					S	S	S	S	M
CO3	S	-	-	S	M	S	S	S	S	M	S	M
-	9	S	S	S	M	S	S	S	0			-
CO4	S	S	S		1	-		3	S	S	M	M
005	c	-	-	S	M	S	S	S	S	M	M	S
003	S	S	S	S	S	S	S	S	S	S	M	S

Strongly Correlating (S) Moderately Correlating (M) 3 Marks Weakly Correlating (W) 2 marks No Correlation (N) 1 Mark 0 mark

> 60 Comments Dr. P. ENOLA ARUTCHELVI PARVATHA

Associate Professor & Head PG & Research Department of English M.V. Muthiah Government Arts College (W) Dindigul-624 001

P21ENE4	ENGLISH LANGUAGE TEACHING 4 4
ATTIVE II OPTION - II	K1: Recall K2: Understand K3: Apply
	K4: Evaluate K5: Analyze K6: Create
ning Objectives	Course aims to gain knowledge of the various aspects of the language comprehend the different roles played by the English language in all spheres of life analyze the impact of English at different socio-political levels genres evaluate the quality of teaching English in India and other countries as well analyze and find out innovative methods of teaching English in India

Unit - 1: Concept of English

English as an International, Colonial and National Language English in Post- Independence India

lut-II: Aims of teaching English

Objectives of Teaching English Practical Use of English

Unit - III: Methods of teaching

The Direct Method The Reading Method

The Army Method

Unit - IV: Methodology

The Oral Approach Situational Language Teaching Structural Approach Total Physical Response The Silent way

Unit - V: Scope of Teaching

Language Pedagogy and the Teaching of English Community Language Teaching Use of ICT in ELT Modern Applied Linguistics

Books for Reference:

- N. Krishnaswamy& Lalitha Krishnaswamy, Teaching English: Approaches, Methods and
 N. Krishnaswamy& Macmillan, 2003. Techniques, Macmillan.2003.
- 2. KripaK.Gautam, English Language Teaching: A Critical Study of Methods and Approaches.
- 3. New Delhi: Harman Publishing House, 1988.
- 4. Harold B Allen. Teaching English as a Second Language. Bombay: Tata McGraw Hill
- Publishing Company, 1965.

Course Outcome

At the end of the course, the students will be able to:

K1, K2	CO1	gain confidence and will be able to be assertive with the skilful acquisition of language and communication skills.			
K1, K2	CO2	overcome the fear of learning a second language or a foreign language and equip themselves			
K5, K4	CO3	'demonstrate how technology can be used for learning the language.			
K5, K1	CO4	identify and classify strategies to teach language			
K6, K3	CO5	analyze and find out innovative methods of teaching English in India			

Mapping of COs with POs& PSOs:

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO ₂	PSO 3	PSO 4	PSO 5
CO1	S	М	S	М	М	S	S	S	S	S	S	M
CO2	S	S	S	S	S	S	s	S	S	S	S	M
CO3		М	S	М	S	S	S	S	S	S	S	S
sCO4	S		S	S	М	S	s	S	S	S	M	M
3	S S	8 8 8		-	_		S	S	S	M	М	
CO5	S	M	S	M	S	S	S	3		5.70	532	

Strongly Correlating (S)

2 marks

Moderately Correlating (M)

1 Mark

3 Marks

Weakly Correlating (W)

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No Correlation (N)

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SEMESTER III

NON MAJOR ELECTIVE

Code : UENN31 GENERAL APPLICATION SKILLS IN ENGLISH USAGE 2Hrs/2Credits

OBJECTIVES

- 1. To learn the general application skills in English usage.
- 2. To familiarize the basic structures of English and develop application skills.
- 3. To prepare the students for Competitive Exams.
- 4. To enable the students speak and write in English fluently on various topics

UNIT I

Language for Everyday Use

Getting information from maps, graphs and tables

UNIT II

Using Dictionary - Thesaurus

UNIT III

Situational use of language - At the Bank, At the Railway Booking Counter, At the Post Office

UNIT IV

Introducing self and others

UNIT V

Note - making

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Associate Professor & Head

PG & Research Department of English

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The importance of Note- making When, why and How to make notes Diagrams and Charts in Note - Making

Reference Books- G. Radhakrishnan pillai: Emerald English grammar & usage

S.R. Inthira and V. Saraswathi: Enrich your English- Academic Skills workbook, Book: CIFL, Hyderabad

SEMESTER III

SBS - BUSINESS ENGLISH COMMUNICATION 2Hrs/2Credits

Code: UENS31

OBJECTIVES

OBJECTIVES

1. To introduce students to develop the communication, right the students to develop the communication. OBJECTIVES 1. To orient the students to develop the communication skills.
2. To orient the students for Competitive Exame 3. To prepare the students for Competitive Exams.

3. To prepare the students speak and write in English fluently on various topics

UNII 1
Communication: Meaning, Relevance and Practice Communication and Organization Structure Information Flow- Downward, Upward, Diagonal, Lateral, Horizontal, Multidimensional

UNIT H Oral and Aural Communication Conversation, Change of date for an Appointment, Advantage and Limitations of Oral Communication

Reading and Writing skills for Business communication Importance of Writing skills, Sub- Skills for Reading Comprehension Principles of Effective Writing, Choice of Form and Style

Process of Writing and Effective Use of Language for Clear Writing Persuasive Business messages, Parts and Layout of Business Letter

UNIT V Business Correspondence Internal Communication- Memos and Memo Letters External Communication- E-Mail

BOBS MAN COMMINA Associate Professor & Hear PG & Research Department of English M.V. Muthiah Government Arts College (W)

LFrancis Soundararaj- Speaking and writing for effective Business Communication Chennal;

Macmillan, 2007 Macmillan, 2007.

SEMESTER IV

Code: UENN42 NON- MAJOR ELECTIVE- PRESENTATION SKILLS 2Hrs/2Credits

OBJECTIVES

- 1.To strengthen the speaking and writing skills.
- 2.To develop Self-confidence.
- 3. To prepare the students for Competitive Exams.
- 4. To enable the students speak and write in English fluently on various topics

UNIT I

Organizing Speech

Planning and Preparation, Developing Main Points, Supporting Ideas

Beginning and Ending Speech

UNIT II

Modes of Delivery

Reading the Manuscript Speaking Extemporaneously Impromptu

Speaking from memory

Speaker's Voice- Non- Verbal Communication

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UNIT III

Speech Etiquette- Avoiding Bad Habits, Developing Good Ones

UNIT IV

Speech for Special Occasions

Welcome Speech, Introduction Speech-Felicitation Speech-Vote of Thanks

UNIT V

Speeches that Changed the World

Sample- Speeches of Jawaharlal Nehru and Mother Teresa

COURSE TEXT:

Krishna Mohan & N.P singh - Speaking English Effectively New Delhi Macmillan, 1995

REFERENCE BOOKS:

1. Stephen E. Lucas- The Art of Public speaking Chennai: McGraw Hill.

2. Richard Denny- Speak for yourself, New Delhi: UBS, 1995

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SEMESTER IV

SBS-WRITING SKILLS 2Hrs/2Credits

Code:UENS42

OBJECTIVE

(A) introduce the students the structure, mechanics, vocabulary and different modes of 2.To master the structure of Language

3. To prepare the students for Competitive Exams.

3. To coable the students write error free English error free on various topics

Sentence Structure UNIT I

> Kinds of Sentence structure Prepositional Phrase

Verbs and Verbal Phases

UNIT II Signal Words

Conjunction and Preposition

Giving Reasons: as, because of, etc.,

Mechanics of Writing UNIT III

Punctuation

UNIT IV Vocabulary

Commonly misspelt words

UNIT V Writing

Prewriting

Identifying the purpose of writing

Organizing information

Writing the first draft

Editing

REFERENCE BOOKS:

1. Warneir, John E. English Composition and Grammar (I Course) Chicago: Harcourt Brace Jovanovich Publishers, 1998.

CVP, 2004. 2. Hewings, Martin. A Remedial Grammar for Advanced Students, New Delhi:

> Oplanencontrible Dr. P. ENOLA ARUTCHELVI PARVATHA

> Associate Professor & Head PG & Research Department of English M.V. Muthiah Government Arts College (W)

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SEMESTER V

Code: UENES3 ENGLISH FOR COMPETITIVE EXAMINATIONS 2Hrs/2Credits

1. To enhance the students' capability to appear for various Competitive Examinations

2. To carich the English language skills to face the interviews.

3. To prepare the students for Competitive Exams. 3. To prepare the students speak and write in English fluently on various topics

Number, Subject - Verb Agreement, Articles, Common Errors, Sequence of Tenses

Unit II

ldioms and Phrases, One word substitutes, Foreign Words and Phrases

Unit III

Reading and Reasoning

Unit IV

Paragraph Writing, Expansion of an Idea, Report Writing, Essay, Letters

Unit V

Group Discussion

Interview

REFERENCE BOOKS:

Saraswathi, V. Maya KM Udbhatkal. English for Competitive Examinations. Emerald

R.P Bhatnagar - English for Competitive Examinations.

6)6 Com (Can) 100 Dr. P. ENOLA ARUTCHELVI PARVATHA

Associate Professor & Heart PG & Research Department of English M.V. Muthiah Government Arts College (W) Dindigul-624 001.

SKILL BASED ELECTIVE

Code: UENS64

THE ART OF PUBLIC SPEAKING 2Hrs/2Credits

Objective:

1.To enrich the knowledge of English Oral Communication Skill.

- 2. To speak error free English confidently.
- 3. To prepare the students for Competitive Exams.
- 4. To enable the students speak and write in English fluently on various topics

Unit I

Characteristics of Voice _ Quality, Pitch, Volume, Body Language _ Personal Appearance, Posture, Gestures and Eye Contact

Unit II

- Organization of Speech Planning and Developing
- Beginning and Ending of Speech Delivery

Unit III

Speeches for Special Occasions -Excerpts

- a. "Chicago" Swami Vivekananda
- b, "I Have a Dream" Martin Luther King.
- c. "Blood Toil and Tears" Churchill

Unit IV

Externporary Speeches, Agreeing and Disagreeing.

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Associate Professor & Head PG & Research Department of English M.V. Muthiah Covernment Arts College (W) Dindigul-624-001 Unit V

prafting a Speech (Practicals for Internal Assessment)

REFERENCE BOOKS:

1. Krishan Mohan and N.P Singh "Speaking English Effectively" 2nd Edition. Macmillan India.

DE DEVOLA APLITCHELVI PARVATHA

Dr. R. E. S. C. A. Perfessor & Head

M.V. Inc. on Commant Art Courge (W)

Course Code P21ENS11 SUPPORTIVE SKILLS - I	TECHNOLOGY IN TEACHING ENGLISH	L	T	P	C				
Cognitive Level	K1: Knowledge K2: Understand K3: Apply K4: Analyze K5: Evaluate K6: Create								
Learning Objectives:	The main objective of this course is to acquaint participants with technology implement network-related programs with Developing. integrate these tools into their English languate enhance English language teaching professionary world acquire and maintain basic knowled technology for professional purposes. help participants utilize technology in formaterials development, feedback, and assert different phases of software/system development facilitate professional communication, confficiency improvement by participating discussions. Students will be able to demonstrate in oral and written communication. English language, actively participate in grand interviews and exhibit evidence of vocable.	essor essor essor ent. Ilabo nstrat oup	eachi aro nd s n pla ratio in te ad r tec discu	of V ing. und kills annin racti en, a onli dequa	the in mg, ice and ine call ons				
1		_			_				

Unit I: Definition -Virtual- Learning Environment:

Meaning- Web-Based Learning Environment, Virtual- Learning Environment

Web Tools, Effective Web Tools in Teaching, and Classroom Tools

Unit II: Webpage Development:

How to develop a webpage, Hostingthe Web page, Meta Data Development.

Content Writing, Creating Ads

Wikipedia Development: How to develop and edit Wikipedia.

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Unit III: Computational Linguistics: Unit III: Computers

[init III: Computers of the speech recognition (SR) systems, text-to-speech (TTS) synthesizers, introduction to speech recognition (SR) systems, search engines, text editors and the speech (TVR) systems, search engines, text editors and the speech (TVR) systems. Introduction to special (IVR) systems, search engines, text editors and language instruction naterials.

Unit IV-Lexicography Unit IV—Lexicography, Dictionary Development (e- Dictionary), WorldNet, Thesaurus. Introduction Teaching: First Language and Second Language Teaching, Various methods of Language Teaching.

Asynchronous E-Learning Vs Synchronous E-Learning of Language Unit V: E-Learning E-Learning Challenges and Solutions. Application: Machine Translation,

Reference Books:

- Anderson, T. (ed.) The Theory and Practice of Online Learning Athabasca AB: Athabasca University Press, 2008.
- 2. Bates, A. and Sangrà, A. Managing Technology in Higher Education San Francisco: Jossey-Bass/John Wiley and Co, 2011.
- 3. Butcher, N. and Wilson-Strydom, M.) A Guide to Quality in Online Learning Dallas TX: Academic Partnerships, 2013
- 4. Batson, T., & Bass, R. Teaching and learning in the computer age. Change, Mar-Apr., 1996.

Course Outcomes:

Upon completion of this course, the students will be able to

KI, K2	CO1	understand the digital system, its organization and architecture
(1, K2	CO 2	identifyneeds and aspirations on a discussion
2, K4	CO 3	discusshow technology affects tangent of the purch social media.
12, K6, 13	CO 4	usestrategies to teach vocabulary growth through social media. usestrategies to teach vocabulary growth through social media. convertsource code for a novel language into machine code for a novel computer.
M. K6	C05	novel computer. identifyappropriate grammar activities that include opportunities for learners to discover, analyze, and produce English grammar during language interactions.

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MOTHER TERESA WOMEN'S UNIVERSITY PG - COMMON PAPER - SYLLABUS 100% internal

PORTIVE URSE	COMPUTER SKILLS FOR WEB DESIGNING AND VIDEO EDITING
egnitive Level	K1: Recall K2: Understand K3: Apply K4: Analyze
Objectives .	 Prepare students develop an effective web page using HTML tags - K3. Create a table within a web - K2. Insert heading levels within a web page - K2. Insert ordered and unordered lists within a web page - K2. Publish a web page - K3.
	 learn how to combine basic design principles in video editing - K2. generate a video by applying her knowledge - K3. Present the edited video - K3. Record short clips by using camera - K2.

INT 1: INTERNET

Baics of Handware and Software - Basics of Windows Operating System - Windows Utilities. Concept Themet, Applications of Internet, Connecting to the Internet, Troubleshooting - World Wide Web Browsers - Search Engines: Accessing Web Browser, Downloading Web Pages, hiring Web Pages - Understanding URL - Surfing the Web: Using e-Governance Websites.

MIT 2: HYPER TEXT MARKUP LANGUAGE (HTML) HAPPER TEXT MARKUP LANGUAGE (HTML)

| State of HTML Script - Components: Text, Table, Image, Hyperlinks, Types of Lists hed and Footers. Forms in HTML: Label – Text Field – Radio Group – Text Area – Buttons.

MT 3: OPEN ELEMENT

Caronact Caronact Saving a Project - Basic User Interface Elements - Media Elements Carousels - Image Gallery - Videos - Project Preview in Browser.

Carousels - Image Gallery - Videos - Project Preview in Brown Stack Development. Opposition De son al

Dr. P. ENOLA ARUTCHELVI PARVATHA Associate Professor & Head PG & Research Department of English M.V. Muthiah Government Arts College (W)

UNIT 4: VIDEO EDITOR

New Video Project - Sort Video Projects - Store Board - Project Library - Video Editing Tools: Filters, Trim, Split, Text, Motion, 3D Effects, Speed - Screen Direction - Sound Design -Continuity - Titling - Picture Management - Color Correction - Special Effects

UNIT 5: OPEN SHOT VIDEO EDITOR

Drag-and-drop functionality - Video effects like brightness, gamma, greyscale, hue, and green screen - Various layers for audio tracks, background videos, and watermarks - Customizable title cards - Key frame animation capabilities.

Text Books:

- Anne Boehm & Zac Ruvalcaba, HTML5 and CSS3, 4th Edition, 2018.
- Aaron Goold, Video Editing Handbook, 2017, ISBN: 1521721041.

P.G. and Research Department of English
M.V. Euthich Government Arts College for Women
Dindigul-624001.

PENE 11

OBJECTIVES

- To enable the students to imbibe the creative techniques of the major genres of English literature
- To enable students to acquire the skills of writing for the press & mass media
- To enhance students employability by the application of their creative talents
- This will enable the students to improvise their skills of writing.

UNIT I:

Writing Short Story (Narrative, descriptive), Writing Poetry (Simile, metaphor, Personification, Rhyme scheme)

UNIT II:

Script for Announcement Preparing Notice/Agenda

UNIT III:

Writing Advertisement Writing Reviews (Books /Films) Writing News for TV /Radio UNIT IV:

Writing Memos

Report writing (function /accident / incident) Feature Articles
UNIT V.

Essay- Writing (2 hours) based on Exposition, Description, Narration & Argumentation

TEXT BOOKS:

Dr. P. ENOLA ARUTCHELVI PARVATHA
Associate Professor & Head
Associate Professor & Head
PG & Research Department of English
M.V. Muthiah Government Arts College (W)
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Pawan Mishra's -On Writing Wonderfully: The Craft of Creative Writing

2. John Gardner's -The Art of Fiction

REFERENCE BOOKS:

- Rog Off, Leonar d and Ballenger, Grad y -Office Guide to Business Letters, memo s & Reportsl New York; Macmillan 1994.
- Developing communication skills -2nd Edition, Krishna Mohan, Meera Banerji, Macmillan)
- Martin Maloney and Paul Max Rubenstein: Writing for the Media. Practice hall in c. engel wood cliffs n.j

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Associate Professor & Head

PG & Research Department of English M.V. Muthiah Government Arts College (W)

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WRITING FOR THE MEDIA

6 Hours / 5 Credits

OBJECTIVES:

- To enable the students acquire skills of writing for the media.
- To promote the chances of employability

UNIT I: Report Writing

Function/Celebration Accident Incident

UNIT II: 1. Editorial Column

2. Letter to the Editor

Types of Interviews

UNIT III: Writing Feature Stories Writing Documentaries

UNIT IV: News for TV News for the Radio Advertisements Reviews a.

Books b. Films

UNIT V: 1. writing for Web sites

Writing for e-zines

Dr. P. ENOLA ARUTCHELVI PARVATHA Associate Professor & Head PG & Research Department of Enolish M.V. Muthiah Government Arts College (W)

TEXT BOOKS:

- p.K. Menon , Practical Journalism*, aavishkar Publishers and Distributors, 2005
- 2 K. M. Shrivastava, 'Radio and T. V. Journalism', stosius Inc/Advent Book Division, 1989

300KS FOR REFERENCE:

I.S.P. Phadbe - -Modern Journalism — Tools and Techniques! - ABD Publishers

MTY. K. D' Souza - Encyclopedia of Advanced Journalism — Orient Longman, 2 revised

Dr. P. ENOLA ARUTCHELY PARVATHA

PG & Research Department of English
M.V. Muthiah Government Arts College (W)
Dindigul-624 001

SEMESTER VI

Code: UENT64

ENGLISH LANGUAGE TEACHING

5Hrs/4Credits

OBJECTIVES

- 1. To introduce teaching methods, approaches and techniques.
- 2. To strengthen the knowledge of the student as a Learner/a Teacher.
- 3. To prepare as an Efficient English Teacher.
- 4. To enable the students speak and write in English fluently on various topics

Unit I

Issues Involved in the Teaching of English - CALL (Computer - Assisted Language Learning), CALI (Computer Assisted Language Instruction), CBLT (Content - Based Language Teaching), Methods, Approaches, Techniques, Teaching English as a Second Language.

Unit II

Teaching of Listening, Speaking, Reading and Writing

Unit III

Teaching of Grammar

Teaching of

Vocabulary Teaching

of Poetry Teaching of

Prose

Unit IV

Testing - Classification

Types of Questions

of of Charles and Marchall Dr. P. ENOLA ARUTCHELVI PARVATHA

Associate Professor & Head PG & Research Department of English

M.V. Muthiah Government Arts College (W)

Dindigui-624 001

Unit V

Uses of Audio - Visual Aids in the Teaching of Language (T.V., Internet)

REFERENCE BOOKS:

- Hughes, Rebecca, Teaching and Researching Speak, Delhi Pearson, 2011.
- Aslam Mohammed, Teaching of English . New Delhi, Foundation Books, 2003.
- Tickoo ML, Teaching and Learning English. New Delhi, Orient Longman, 2003.
- Frishnaswamy N.and Lalitha Krishnaswamy. Methods of Teaching English. Sahibabad. Pranjali Printline, 2013.

M.V. Muthiah Government Arts Coffeed (V/)

Dindigul-624 002

SEMESTER V

SKILL BASED ELECTIVE - ENGLISH FOR CREATIVE WRITING

OBJECTIVES

1. To study English and to employ it in a creative mode and to orient students to writing different styles of addresses and feature and review writing.

UNIT I

How to write a Short Story and a Poem (Narrative, Descriptive & Figures of Speech)

UNITII

Review Writing: Book Review and Film Review (Models from The Hindu News Paper)

UNIT III

Feature Writing

UNIT IV

Advertisements: Different Kinds (Models from The Hindu News Paper)

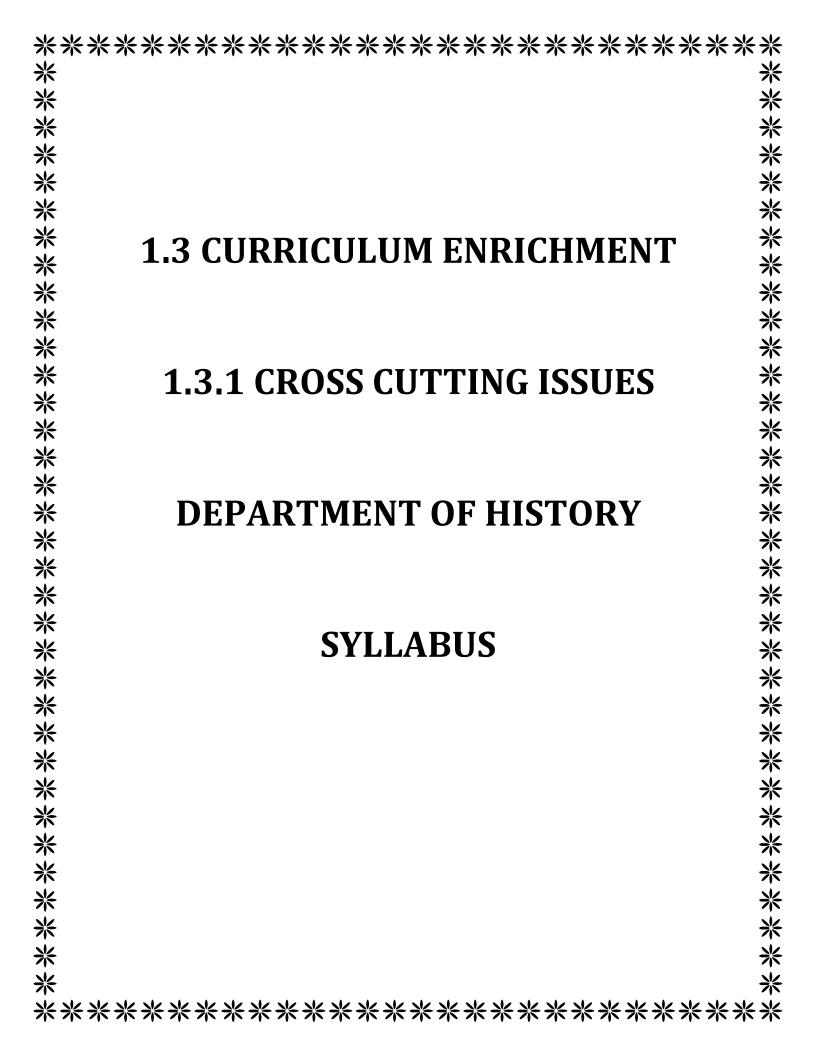
UNIT V

How to write Welcome Address and Valedictory Address

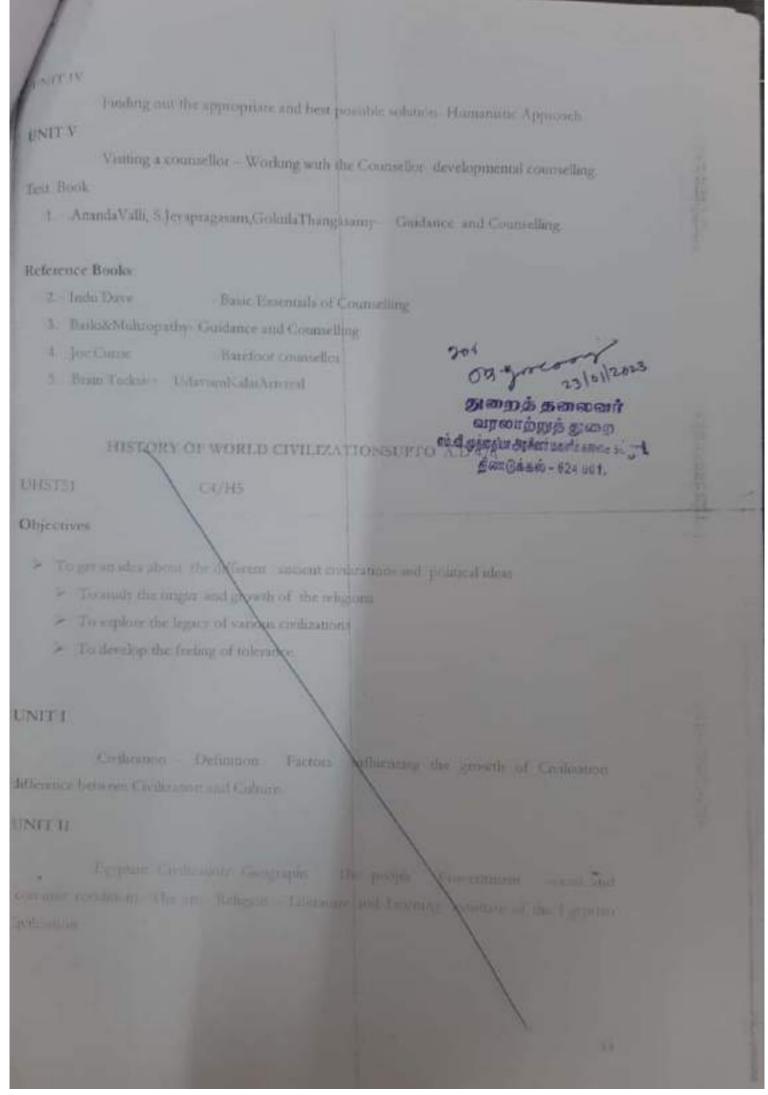
apploomentate Dr. P. ENOLA ARUTCHELVI PARVATHA

Associate Professor & Head PG & Research Department of English M.V. Muthiah Government Arts College (W)

Dindigul-624 001



- Violations of Democratic Rights India (Bomba) 1996). 2 Leah Leven Human Rights in Indua/NBT, 1998 3. Upendrebasi - The Rights to be Human 1987 HISTORY FOR COMPETITIVE EXAMINATIONS UHSN42 XC2/H2 Objectives - To create awateness of the Competitive Examination UNIT 1 General knowledge and General Studies UNITER GUIDANCE AND COUNSELLING Objectives > To create awareness of who am I To understand their own problem and getting best possible solutions. UNITE UNITED interpretation phinging high UNDER



COMPLETER APPLICATION IN HISTORY. THEORY

Objectives:

- To understand the computer operation
- To know the various operating system.
- To use computer in day today needs
- Tomain the students for job-

UNIT 1

Introduction to computer and in Camponents

UNITE

Personal Computers - Input, Output and Storage Devices

INIT III

Warrant Operating System-MS DICS WINDOWS, UNIX

NITIV

Selection of Hardware & Soleware

VIT V

Word Processing MS-Office

xt Bools

A Course to Computer Applications in the Humania

crence Books:

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DESCRIPTION

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துறைக் கலைவர் வரமைற்றுத் துறை எம்.தேத்தும் அள்ளத்திர்கள்கள்களு. தீன்டுக்கள் - 604 601.

SEMESTER-IV

NIVEE

WOMEN'S EMPOWERMENT THROUGH JUDICIAL PROCESS

Credits - 2

Hours - 2

UNITED

Women's Empowerment - Women's Equality - Rights and Law of Women - Educational Opportunities - Employment.

DINET D

Women's Political Centership Political structure and Women's Position - gender Junior of disasting in Women Language Structure.

UNITH

Western and word Winness - Drawey system - Notice of Down Accura-

UNITED

Constitutional Agenda for Empowering Women - Judicial response to empowerment of women - Rape trail - compensation to Rape victims.

DINET-V

Women and Laws - Laws concerning women in Modern India

Reference Books :

J. Rojana Harish and 2 V. Bharahii Harishankan Multidisciplinary perspectives on Women's

கும் நீர் நூல் துள்றும் துணைப் வரமைற்றும் துறை ம்.விழந்தும் அள்ளங்களிக்கைக்கத்துர், சின்றிக்கள் - 624,001 violences on Women - Formule, Female Infamicule, disparar at home, live teating Ill treatment by her relatives etc.

UNITIV

Government Policy towards Women Centre and State Government-Policies on women after 1947. Social Welfaue Programmes for women. Central State and Distort level

UNIT V

Women's Organizations and Women's Movement in the 20" century Sell Fleip Movement Green Belt Movement Movement for Social inform Women's Movement in

I Abrebie A.S. The position of Worney of Hardy coclusions from pre historic mass us the present day(MothilalBanocana, New Nelhi, 1983)

Reference Books:

Elize Women in Indeas Polytes (Shabibi Neservalla) 1982)

- 2. Bala, Sha and Arusha Sharma Indian Women Freedown Fighten(1857-1947) Marchan. New Dellie, 1986
- Women in Modern India
- 4. Promilatina,P.N. Nanonalism and Women's Movement in South India, 1917 1947.

TOURISM PRINCIPLES AND PRACTICES

Objectives

UNITI

Tourism definition types of tourism - tourist - definition Emerging concepts.

UNIT II

Tourism through the ages - Ancient, Medieval and Modern-

UNIT HI

Basic Composents of Tourism Attraction; Natural and Manmade - Accommodation; Hotels-Types - Chronicanon - Accessibility, Transport, Types - Air, Land and water.

UNITIV

Travel Agency- Tour Operators- Types and Functions - Binerary- Tour Packages-

UNITV

Tourism Products- Special features- Tourism marketing - Traditional vsOnline marketing.

Ten book

Blanc A.k. Tourism Development, principles and Procuces (New Della 1994)

Reference Books

- Phollowar Chemopher | The Business of Touran
- 2 Rant M.J. Dynamics of Tourism A Tribles New Della Plant
- 3 Parendisha P.N Temmon Development Tamil (Kodrowed 2000)
- 5 Self-Pix Successful Toxester Management 1 Nov Pall 1

துறைத் தனைவர் வரமைற்றுத் துறை வரமைற்றுத் துறை வரமைற்றுத் துறை வரமைற்றுத் துறை எந்துத்துக்குக்குக்குக்கும்

Reference Books

- 2. Arthur Marwick The Nature of History, (Macmillan, Chenna)
- Subramaman,N

- Flistonography, (N.S.Publications, Madura).

4. Sheik Ali B.

- History in Theory and Method, (Macmillan Chennai)

YOGA AND MEDITATION

UHSS64

C22HD

Objectives

- To create a healthy society

TENET I

Yoga - Young Guru - Shishea - Dikilin - Englis Limbs of You

UNIT II

Detailed study of Paramali's Yoga Surra

UNIT III

Commbunes of Tunorular - Ramshings Adigabat Vall day-Swamy Verel ananda,

UNITIV

Meditation - Forms lands of meditation - mindful meditation - concentration meditation walking meditation. Seligious concept. Hindustra Buddhirm - Jainiam Islam and Christianing.

UNITY

Kinds of Ashanas - Ten types of Pranavantas

Ceference Books

1 Group Four-ton

2 1535 S. Augunger

Groupe Femanusin

Your the Technology of Error

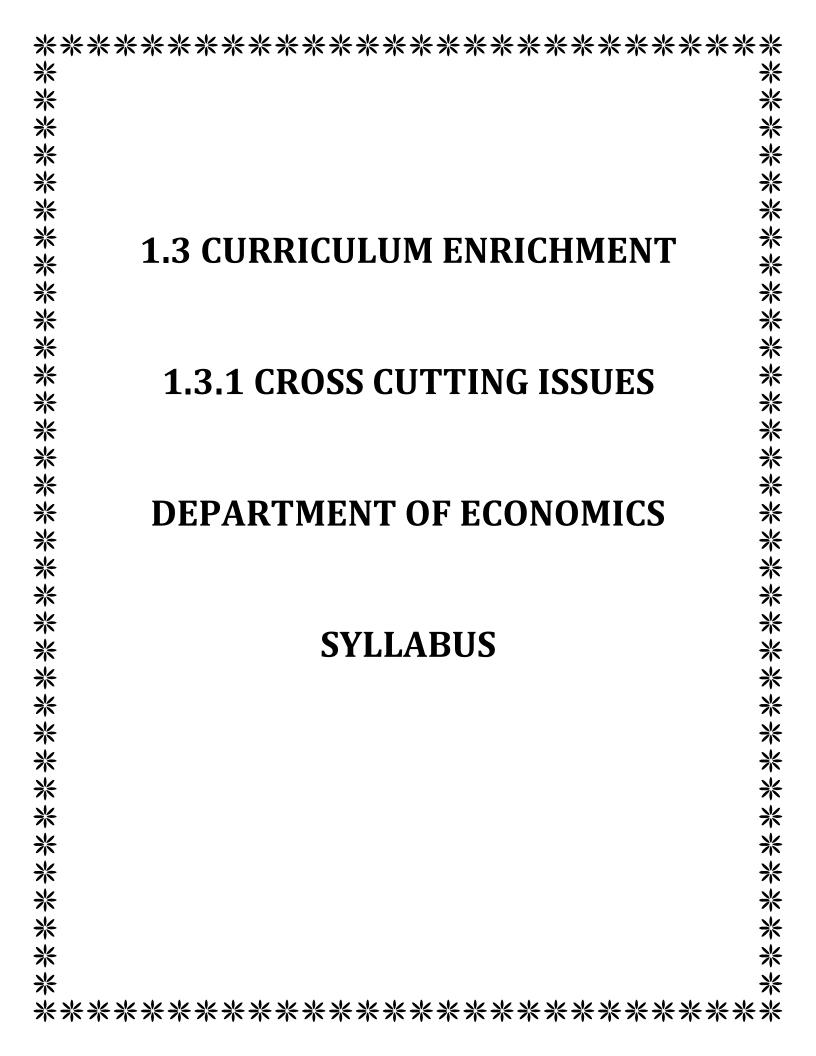
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EXTENSION ACTIVITIES

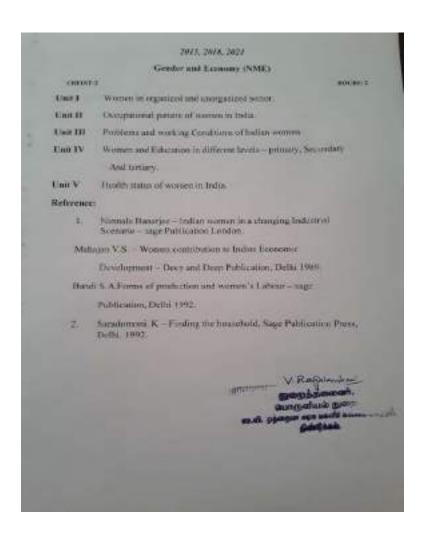
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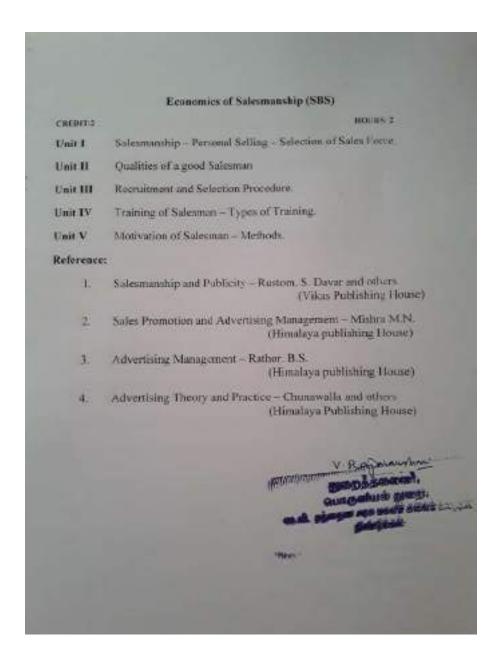


M.V.Muthiah Government Arts College for Women, Dindigul Department of Economics

III SEMESTER (NME)



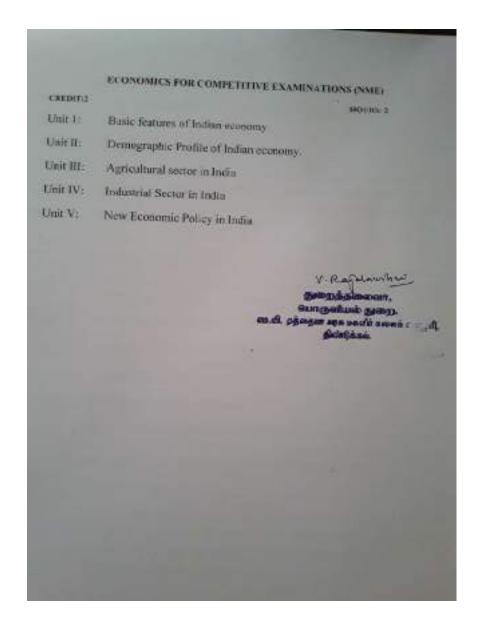
III SEMESTER (SBE)



IV SEMESTER (SBE)



IV SEMESTER (NME)



V SEMESTER (SBE)

	BUSINESS COMMUNICATION (SBE)
-CREDITO	800 W. S
tion I	Introduction
	Business Communication - Importance - Process and principles Modern Continuousline devices - Word processor releas have for small. Take conferencing - Telephone movering machine- Internal - sochaites and their ross.
Unit II	Business Letter
	Analysis of Business Letter- Layout – Kinds of Husiness letters- letter of engagy- Quotations – Offer orders – Cancellations – Replies- Canalar- Complaints and Suthinoents.
Knor (til	Basiness Correspondence
	Bank Correspondence - Issumnce Correspondence Agency Correspondence Correspondence relating to Expons and Importa- Lines to the Editor.
UnitV	Company Correspondence
	Correspondence with share holders. Government Departments & Scattatory Bodies-Application for appointment - Importance, Types, Structure - Oral Presentation Planning for Oral presentation.
Unn V	Report Writing
	Report - Meaning : Importance, Principles governing the preparation of Report - Qualities of Good Report-Functions of a Report - Types of Reports. Report by individuals, Committees-Report by Board of Directors - Manufact Vs Report
est Book	
	V. Ragnavian
	generalisation of the control of the
	West.

Kathoresan & Dr.V. Redha, Business Communication - Prasaron Publishers, Chennai, 2007.

Reference:

- R.S.N Pillai & Bagavath, Essentials of Business Communication .
 V.K.Jain , Business Ethics & Communication S.Chand & Co.Ltd; New Delhi, 2008.
- 3 Galgotia, Business Communication Skills Galgotia Publication, New Delhi. 2006.
- 4. A.N. Kapoor, A Guide to Business Communication.

துறைக்குமைனர். பொருளியல் துறை. ஊகி. நந்தைய வுடி மக்கி கண்டிக் கண்டிரி, நின்நிக்க்

VI SEMESTER (SBE)

Human Resource Management (SBE)

CREDIT:2

HOURS 2

Unit I: Human Resource Management - mesning and definition - objectives of HRM

- Unit 2: Importance of human resource planning forecasting human resource requirements.
- Unit 3: Orientation and training orienting the employees training process.
- Unit 4: Establishing pay plans basics of compensation and trends in compensation.
- Unit 5: Industrial relations and collective bargaining trade union future of unionism.

Reference:

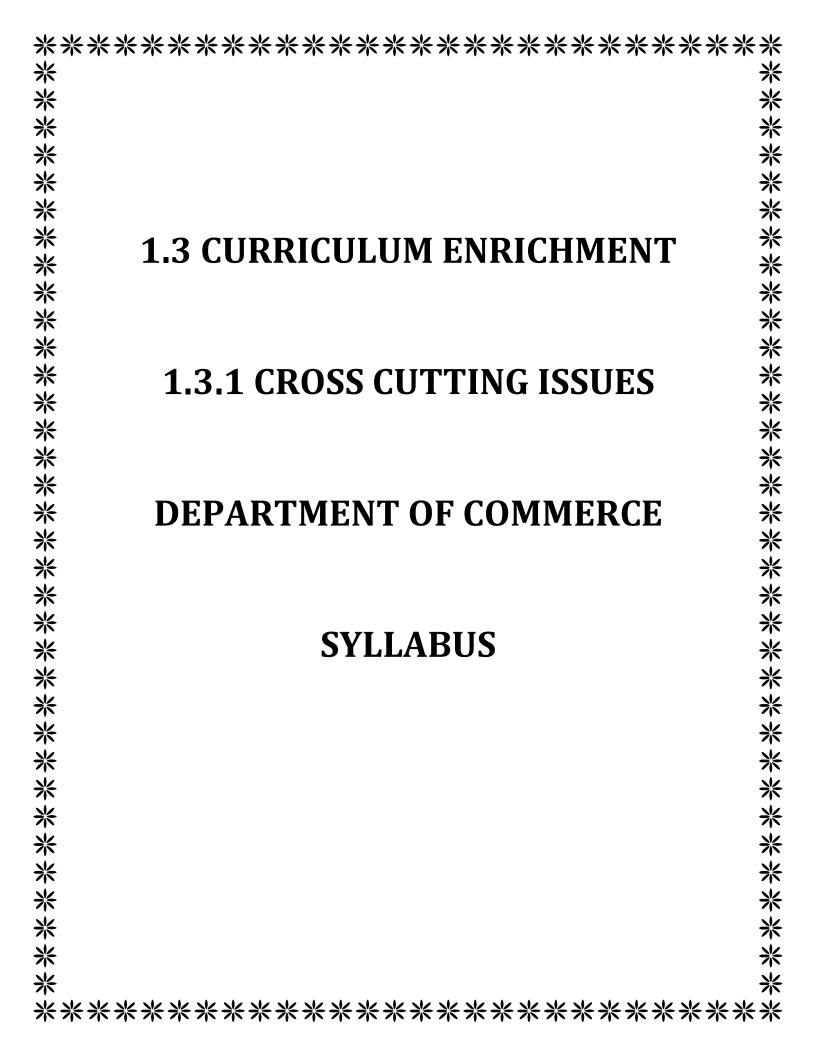
Economic Development & Planning - B.N. Ghosh.

Economics of Growth and Development - K.K. Dewett & Satiahwadhanan.

Indian Economy - Ruddar Dutt and K.P.M. Sundaram.

The Economics of Development and Planning - Desai K.V. and Rao. M.

V. Rafaranhan தறைக்கையை. வாருளியல் துறை. கூடு pத்தைய தை நகரிர் கண்க கட்டிரி. தண்டுக்கம்



SEMESTER III - SBE 3 UCOS31 - Fundamentals of Investment

Credit: 2 Objective:

Hours: 2

To familiarize the students with

Different investment alternatives introduce them to the framework of their analysis
and valuation and highlight the role of investor protection.

UNIT-I:

The Investment Environment - The investment decision process. Types of Investments - Commodities, Real Estate and Financial Assets, the Indian scenarios market, the market participants and trading of securities, security market indices, sources of financial information, Concept of return and risk, Impact of Taxes and Inflation on return.

UNIT - II:

Fixed Income Securities — Bond features, types of bonds, estimating bond yields, Bond Valuation types of bond risks, default risk and credit ming.

UNIT - III:

Approaches to Equity Analysis – Introductions to Fundamental Analysis, Technical Analysis and Efficient Market Hypothesis, dividend capitalisation models, and price-earnings multiple approach to equity valuation.

UNIT-IV:

Portfolio Analysis and Financial Derivatives - Portfolio and Diversification, Portfolio Risk and Return; Mutual Funds; Introduction to Financial Derivatives Financial Derivatives Markets in India

UNIT - V:

Investor Protection - Role of SEBI and stock exchanges in investor protection; Investor grievances and their redressal system, insider trading, investors awareness and activism

Reference Books:

C.P. Jones, Investments Analysis and Management, Wiley, 8th Edition.

- Prasanna Chandra, Investment Analysis and Partfolio Management, McGraw Hill Education
- 3. R.P. Rustogi, Fundamentals of Investment, Sultan Chord & Sons, New Delhi.
- 4. N.D. Vohra and B.R. Bagri, Futures and Options, Merinaw Hill Education
- 5. Mayo, An Introduction to Investment, Cengage Learning

Note: Question paper shall cover 100% theory

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SEMESTER IV - SBE 2 UCOS42 - Creative Advertising (Practical)

Credit: 2 Objectives:

Hours: 2

- To highlight the importance of advertising as a busine is strategy
- To explain how creativity can be incorporated in an advertisement.
- To understand the communication process that takes place while advertising and to analyse it from the view point of a customer.

UNIT - I

Creative Advertising Meaning - definition of marketing and advertising - functions of advertising - communication and persuasion process - human communication process advertising exposure model - applying communication process to advertising.

UNIT - II

Consumer Behaviour Consumer Behaviour - consumer decision making process - consumer perception process

UNIT - III

Creative Advertising Creativity in advertising, creative thinking - Creative process - Appeals - Copy Writer - Copy Writing - Print Copy elements, Headlines - body Copy - Slogan elements of design and principles of design.

UNIT - IV

Designing Designing Print Ad - choosing format - designing page - choosing type faces working with visuals - lay-out ready for print. Course

UNIT - V

Advertising and Media strategy - Role of Media; types of media, their advantages; and disadvantages; media planning, selection & scheduling strategies

Text Book:

1. Chunawalla&K.C.Sethia, Foundation of Advertising Theory & Practice, Himalaya Publishing House, New Delhi, 2000 Course

Reference Books

William H. Bolew, Advertising,

- John Wiley & Sons, New York, 1995
- 3. Courtland Bovee John Thill& George Dovel, Advertising Excellence,
- Tata Mc Graw Hill Publications, New Delhi, 1995.

Note: 100% practical

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SEMESTER III - NON MAJOR ELECTIVE 1 UCON31 - Fundamentals of Insurance

Hours: 2 Credit: 2 Objective:

To impart theoretical base on fundamental principles (insurance basiness)

UNIT - I

Introduction to Insurance - Meaning, Definition of insurance - General principles of insurance - Types of insurance life, fire and marine - Difference between life and other types of insurance, Growth & Development of Indian insurance industry - Regulations of insurance business and the emerging scenario.

UNIT-II

Life Insurance - Introduction to life insurance: Features of life insurance - Essentials of life insurance, Different types of life policies - Annaities, Formation of life insurance contracts-Assignment and nominations - Lapses and revivals of policies. Surrender value, paid up value, Loans - Claims - Procedure for claims - Settlement of claims - Death and Maturity.

Fire Insurance - Fire insurance contracts- Fire insurance coverage - Policies for stocks - Rate fixation in fire insurance - Settlement of claims. Marine layarance - Functions - Marine perils - Types of marine policies - Clauses in general use - Warranties and conditionsproximate cause - subrogation and conciliation - Re-insurance - Double insurance - Types of marine losses.

UNIT-IV

Miscellaneous Insurance - Motor insurance - Employer's Tability insurance - Personal accident and sickness insurance - Aviation insurance - Eurgracy insurance - Fidelity guarantee insurance - Engineering insurance - cattle insurance - Crop insurance,

Procedure for becoming an Agent - Pre-requisite for obtaining a license - Duration of license - Cancellation of license - Termination of agency - Code of Conduct - Functions of the Agent.

TEXT BOOKS:

- 1. Fundamentals of Insurance Dr. Periyasamy, Himalaya Paislishing Pvt Ltd. Mumbai.
- 2. Insurance principles and practice Moorthy, A , Marglum publications, Chennai.
- 3. Fundamentals of insurance Dr. P. K. Guptha, Margham publications, Chennai

REFERENCE BOOKS:

- Insurance principles and practice Periasarry, P. Mary hard publications, Chennai
- 2. Insurance principles and practice Mishra, M. N. Sultar Chard & Sons, NewDelhi
- 3. Insurance principles and practice Balu. V. &Premilan, Margham publications, Chennai

Note: Question paper shall cover 100% theory

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Diregional file -

Advertising Budget-measuring advertising - pretests-post-tests. effectiveness Text Books:

Text Book:

Marketing R.S.N.Pillal&Begavathi/S. Chand & Company Ltd., No principles

Reference Books:

Marketing - Rajan Nair &Sanjith .R Nadir/sultan chund sons, New Delhi/Seventh Edition.

ONMEC ACCOUNTING FUNDAMENTALS II Year

Total conduct hours: 30 Unit I

IV Semester Credit: 2

Introduction - book keeping - Accounting Principles - Objectives - Concepts - Classification of accounts - advantages and Limitations of Double entry

Unit II

Books of original entry - Journal - Journal Proper-Compound entry.

Unit III

Subdivision of Journal - Subsidiary books purpose – purchase, sales, purchase return, sales return and each book (single column only)

Books of Journal entry - ledgers - purpose - ruling and balancing of the Ledger account.

Unit V

Trial Balance - meaning importance - preparation.

Advanced R.S.N.Pfilol Accountancy Bagavathy, /Komark Publisher PVT Ltd /2ml Edition.

PracticeReference Books

- 1. Jain **Extriavang** Accountancy/KalyantPublishing ,Bangaiuru/17th Edition.
- 2. R.L.Gupta-Advanced Accounting/Sultan clund& son / New Delhi/ Sh Edition.
- 3. Ariilanundam& Raman-Advanced Accountancy/Himalaya Publishing house / 5º Edition.

MART III CORE - PARTNERSHIP ACCOUNTING

III Year V Semester

Total consect Hours: 75 Credit: 4

UNIT-L

Parmership-Meaning, Definition-Partnership deed-Fixed and Fixtuating capital, accounts adjustments and galgrantees.

Admission of partners calculation of new ratio and sacrificing ratio Treatment of goodwill- Revaluation of seems and habilities-Adjustment of capital

UNIT-III

Represent and death of a partner- Accounting treatment -nettlement of around due to legal representative- Joint-life-policy and quethods of its accounting treatment.

Dissolution of firm- Insolvency of partners-Garner 35. Murray case -methods of Piecemeal distribution.

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Department to a

SEMESTER V - SBF 3 UCOS53 - Commerce (Practicar)

Credit: 2 Objectives:

Hours: 2

To provide practical knowledge to fill forms like insurance, bank, tons application, membership form, income tax return forms etc.

LIST OF EXERCISES FOR COMMERCE PRACTICAL UNIT-1

- 1. Preparation of invoice, receipts, vouchers, delivery challan, entry pass, gate pass-debit and credit notes.
- 2. Preparation of Application for shares and allotment letter of shares Allotment transfer forms.

UNIT-II

- 1. Drawing, endorsing and crossing of cheques- filling up of pay in slips demand draft application and preparation of demand drafts
- 2. Making entries in the passbook and filling up of account opening forms for SB account, current account and FDR's,
- 3. Drawing and endorsing of bills of exchange and promissory notes.

UNIT-III

- 1. Filling up of application forms for admission in cooperative societies.
- 2. Filling up of loan application forms and deposit challen
- 3. Filling up of Jewel loan application form, Procedure for releasing of jewellery in jewel loans and repayment.

UNIT-IV

- 1. Preparation of agenda and minutes of meetings-both general body and board of directors.(students are asked to write agenda and minutes of their own and should not use printed format)
- Using Bin card and inventories.
- 3. Using Cost Sheets.

UNIT - V

- 1. Filling up of an application form for L1C policy, filling up of the premium formfilling up the challan for remittance of premium.
- 2. Preparation of an advertisement copy, collection of advertisement in dailies and journals, critically evaluating the advertisement copy.
- 3. Filling up income -tax returns and application for permanent account number.

Note:

Students may be asked to collect original or Xerox copies of the documents and affix then on the record note book after having filled up. Drawing of the documents should not be insisted.

Note: 100% Practical

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M.V. Muthial Govt Arts College for Women Dindigul-624 001, Taminadu.

SEMESTER VI - SRE. 4 L/COS64 - Business Communication

Credit: 2 Objectives:

To develop better written and oral business communication skills among the students and enable them to know the effective media of communication. To enhance their writing skills in various forms of business letters and reports.

UNIT-1

Organization of a modern office - Meaning of Office, Functions and importance of an office, Office manuals - Types, Preparation of office manuals. Office forms - Form designing and

UNIT - II

Mail and Correspondence - Handling inward and outward mail. Internal and External communication. Layout of business letters - Kinds of business letters. Characteristics of a good letter.

UNIT - III

Trade letters - Enquiries - Quotations - Acceptance and order confirmation - Execution -Refusal or cancellation of orders, complaints and adjustments - Acknowledgements -Collection letters - Follow up letters - Status enquiry

UNIT-IV

Circular letters - Banking correspondence - Agency correspondence Correspondence with government

UNIT - V

Modern communication methods - Electronic mail (E-Mair), Voice mail, Cellular phones, Fax (Facsimile), Video conferencing, Multimedia, Telephone unswering machine, Whatsapp.

Text Books

1. Chopra, R.K. 2015. Office Management. 17th Edn. Himalaya Publishing House, Mumbai. (Units I &II)

 Pillai, R.S.N and Bhagavathi, V. 2014. Business Correspondence and Office Methods. 11th Edn. S.Chand& Co (P)Ltd, New Delhi, (III, IV &V)

Reference Books

 Devanarayanan, T.S and Ragunathan, N.S. 2015. Office Management. 1stEdn. Margham Publications, Chennai. Gupta, C.B. 2014. Office Organisation and Management. 2thEdn. Sultan Chand &

Sons, New Delhi. Sundar, K. and Kumara Raj, A. 2015. Business Communication. 1^eEdn. Vijay Nicole

Imprints Private Limited, Chennai.

Note: Question paper shall cover 100% theory

S-Ryamedu Head of the Department Department of Commerce M V Mothin't Govi Arts Colore or Dancagus-524 001, Tamtonau

QNIT-IV

Product management -brand management fext Book selection suppliera-category Merchandise

retailing Merchandise management criteria for Elements of alerenative Law-94, D. Kappeer / Solton Chund management 8 Sons enucational publishers/ 31# edition 2009

UNIT-V

1.Business Law R.S.N.Piliat and V.Bagavatta / S.Chand Management Planning in various Reference Books! segment. Publishes/ edition 2001 Store management responsibility Motivating sp. Company Low - Dr. Avtor Sing, Estern Book company

employees-controlling costs-Reducing inventory belanknow, 110 edition. objectives of a good Design-Store layout of planning.

PART III CORE -CORPORATE ACCOUNTIG VI Semester

Retnil Management by Chetan Bajaj, Rajniah Tetal continue : 75 NiahiV.srivastara (oxford university

III Year

Credit: 4

impression 2006/published in India.

Traderal CNT-1

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A -Re-casue of shares at discount and Weitz (TATA McGraw hill publishing Ltd.,/first edition, premium support of shares, redemption of preference shares.

PART-IV-SBEC-BUSINESS LAW

V Semester UNIT-II

Valuation of shared and goodwill in joint stack companies

III Year Total contact Hours : 30

Credit: 2

+4450

UNIT-I

Indian contract Act-Definition-Essential elemetunit-iii of a valid contract

UNIT-II

Quast contract-Performance of contract.

UNIT-III

for breach Discharge of contract-Remedy

contract.

UNIT-IV

Consumer production Act.

Meaning and definition & company-Kinds of joint commencement of business- Prospectors -tasue of share capital-lands of shares. prior Profit

UNIT-IV businessaccounts-O. Bnanchal Augmention incorporation-preparation of. requirements as per schedule IV part I and X

Keference Books;

1. Using information technology-Brief version, praeditional principles and principles are present assume that of computers and communications Support from the principles of particles. Sarathk Hutchingan Invalidation Support from the principles of particles. 2. A Text of information technology -R.Saravanakoyyerus in it commerce E-mah e-checks famort Cardsetc., S.Changi New Delhi-2003/3st admiss.

ELECTIVE - E-COMMERCE

Total contact Hours : 45

III Year

hird party verification) Encryption and credit card - Do-Ine Third purty processors KITTSQ - Stake in electronic VI Semestrayments designing electronic payments system.

Credit: 3 Books Reference:

E-commerce, meaning-Definition reasons for growth of E-commerce-importance of E-commerce objectives of E-commerce infrastructure-anatomy of commerce application UNIT-II

II Founties to. Electronic KamlesrowWhinston, Person Education Della Ed 2005/60 impression, 2008 published by dorting Kindersley (india)pvt.ltd.

VI Semester

Credit:3

Part IV - SBEC - INTERNATIONAL BUSINESS

Special carries include credit chief, encrypted credit rand and

Types of E-commerce Business of Business (innili) Year Organizational-Commerce) business to consumrated contact hours: 30 consumer to consumer luternal business process (nUNIT-I organizational E-commerce). their features applications.

Meaning Name and Scope - Role of Foreign Trade in economic development of India

UNIT-III

UNIT II

Advertising and marketing information bas Balance of payment in the context of economic marketing Advertising on the internet on line advertising frowth. Process: Trade Balance, Current Account types-charting the on line marketing process marPosition and Capital Account position - Trade - Principles of BOP - Correction of adverse BOP. research-search and resource Discovery

UNIT-IV

Electronic Data Interchange (EDI) meant Definition importance of EDI-EDI and Email-EDI and Bank and IMF - Functions. commerce EDI application in business implementation

UNIT III

Euro Currency market and GATT - WTO - World

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Distingtion on the

recog - Disjectives - Importance - Steps in selling - Kinds Fail Span Duties and responsibilities of salesman.

lext Books

Wodern Marketing prisciples and practices-R.S.N.Pillat & Biggivathi / S. Chand & Company Ltd., New Delhi / fired Edition.

Reference Books:

1. Marketing Managersent-Philipkotler / Pearson Johnston / 13+ Edition

2. Marketing Management Sr.C.B.Gupta&Dr.N. figur Nair/ Sultan Chand & Sons/ VIII thoroughly tested edition 2000

SECC - ENTREPRENEURSHIP DEVELOPMENT

THEORY

III Semester

letal conduct hours: 30 Credit: 2

It smalle the students to understand the significance of ofrepresentable in India. DUT-1

Introduction: Entrepreneur - Definition emergence # untreprensurial class - theories of entreprensurahip -

daugacteristics of entreprendur.

UNIT-II

Il Year

Search for a business idea: Sources and selection project classification and identification - constraints steps for starting a small industry selection of type of erganization.

ONTY-III

Entrepreneurtal behavior: Innevation satrepreneur - role of an entrepreneur in economic grawth as an innovator - illustrative cases of innovative entrepreneurship - social responsibility.

THE THICK

Project finance - sources of project finance, credit facilities - evaluation by financial institutions leave financing.

UNIT-V

Incentives and subaidless Central Government schemes and State Government Schemes - ancestives to 891

Text noon:

1. S.S. Khanka, Entrepreneurial Development, S. Chand & Co., New Della:

Reference Books

- 1. Siner A. David, Entrepreneurial Megabules. John Wiley & Sons, New York.
- 2. PrasarinaChandra : Project Preparation, Appraison, Implementation, Tata McGraw Hill, New Delhi.
- 3. Hall: Entrepreneurship, New Venture Creation. Prentice Hall of India
- 4. Gupta CB and Srinivasan NP: Entrepreneurial Development, Sultan Chand & Sons. New Delhi

ONME - RANKING THEORY LAW & FRACTICE

Il Year

III Semester

Total contact Heurs: 30 Credit: 2

UNIT-I

Definition benking-banker-customer-the of relationship between a banker and a customer-Statutury obligation to honor cheques-Banker's Lien-Duty to maintain secrecy to customer's account, (

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M.V. Mothink flav, are been

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Advertising Budget-measuring advertising - pretests-post-tests. effectiveness Text Books:

Text Book:

Marketing R.S.N.Pillal&Begavathi/S. Chand & Company Ltd., No principles

Reference Books:

Marketing - Rajan Nair &Sanjith .R Nadir/sultan chund sons, New Delhi/Seventh Edition.

ONMEC ACCOUNTING FUNDAMENTALS II Year

Total conduct hours: 30 Unit I

IV Semester Credit: 2

Introduction - book keeping - Accounting Principles - Objectives - Concepts - Classification of accounts - advantages and Limitations of Double entry

Unit II

Books of original entry - Journal - Journal Proper-Compound entry.

Unit III

Subdivision of Journal - Subsidiary books purpose – purchase, sales, purchase return, sales return and each book (single column only)

Books of Journal entry - ledgers - purpose - ruling and balancing of the Ledger account.

Unit V

Trial Balance - meaning importance - preparation.

Advanced R.S.N.Pfilol Accountancy Bagavathy, /Komark Publisher PVT Ltd /2ml Edition.

PracticeReference Books

- 1. Jain **Extriavang** Accountancy/KalyantPublishing ,Bangaiuru/17th Edition.
- 2. R.L.Gupta-Advanced Accounting/Sultan clund& son / New Delhi/ Sh Edition.
- 3. Ariilanundam& Raman-Advanced Accountancy/Himalaya Publishing house / 5º Edition.

MART III CORE - PARTNERSHIP ACCOUNTING

III Year V Semester

Total consect Hours: 75 Credit: 4

UNIT-L

Parmership-Meaning, Definition-Partnership deed-Fixed and Fixtuating capital, accounts adjustments and galgrantees.

Admission of partners calculation of new ratio and sacrificing ratio Treatment of goodwill- Revaluation of seems and habilities-Adjustment of capital

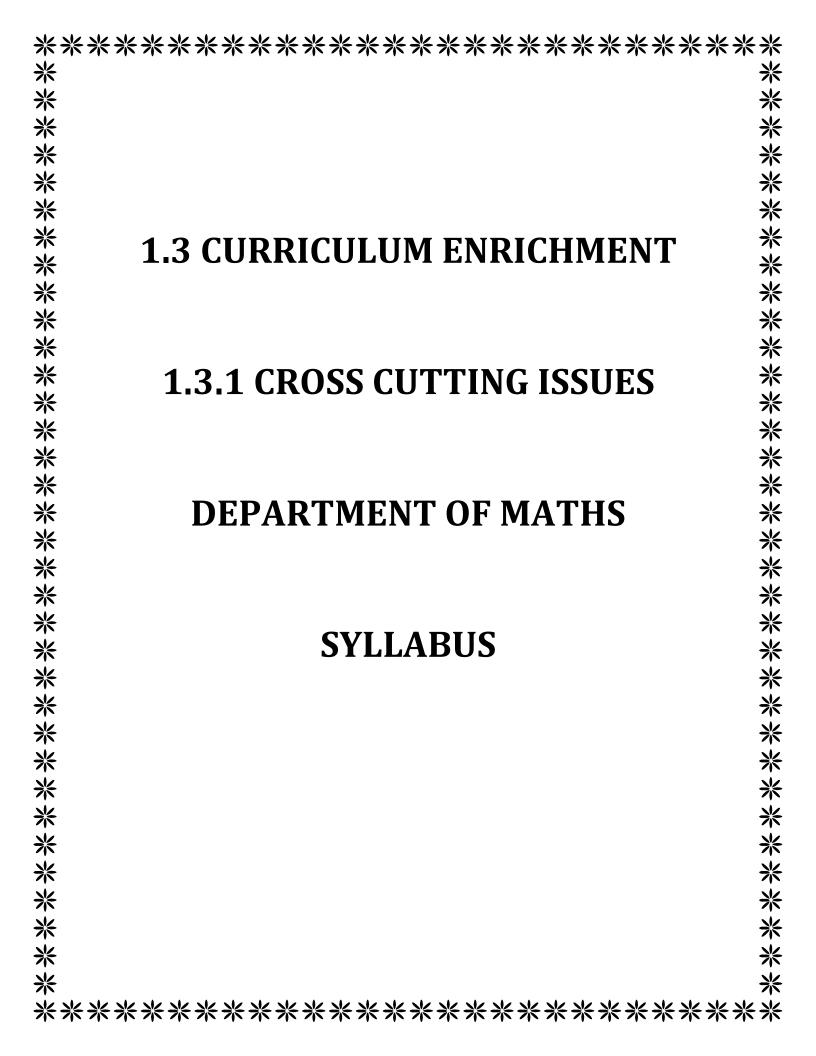
UNIT-III

Represent and death of a partner- Accounting treatment -nettlement of around due to legal representative- Joint-life-policy and quethods of its accounting treatment.

Dissolution of firm- Insolvency of partners-Garner 35. Murray case -methods of Piecemeal distribution.

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Department to a



Semester III

UMTS31

ASTRONOMY- I

2 Hours / 2 Credits

Objectives

- The learner understand basic knowledge about natural science.
- The leaner will acquire the knowledge of the celestial objects and origin of those objects and phenomena and their evolution
- The learner will acquire basic knowledge about morning, evening stars, circumpolar stars
- The learner will acquire basic knowledge about the diurnal motion of sun and stars.

Unit I: Spherical trigonometry:Sphere - Great circles and small circles- Axis and poles of circle - distance between two points on a sphere-angle between two circles-secondaries-angular radius or spherical radius - spherical figures -spherical triangles -polar triangle - theorems - Relation between spherical triangles and its polar triangle- Some properties of Spherical triangles-principal of duality-colunar and anti podal triangles -Relation between sides and angles of a spherical triangle- Cosine formuls- cotangent formula-supplemental cosine formula.

Unit II: Functions of half an angel- functions of half a side – Delambre's analogies –Napier's analogies- right angled spherical triangle –Napier's rules- Sphereical Coordinates – relation between the Sphereical and rectangular coordinates – general proof of the cosine formula – formula in plane trigonometry –Important note.

Unit III: Astronomy-celestial sphere – Diurnal motion, celestial axis and equator –celestial Horizon – Zenith and Nadir –celestial Meridan – Cardinal points – Northern and souther hemispheres – Eastern and southern hemispheres – Eastern and western hemispheres – visible and invisible hemispheres – Declination circles –verticals – parallacte angle –Rising and setting – transit or culmination- Due east and due west – due south and due north – annual motion of the sun, ecliptic, obliquity-first point of Aries and first point of libra – equinozes and solstices – coloures - Celestial Coordinates: Horizontal system – equatorial system- meridian system – ecliptic system – to represent the different systems of coordinates in the same figure – conversion of coordinates –relation between right ascension and longitude of the sun- to trace the changes in the coordinates of the sun in the course of a year – the longitude of the sun on any day. (with worked examples)

Unit IV: Sideral time -west hour angle of a body expressed in time units - theorem-latitude of a place - theorem- to determine - tee R.A. and Declination of a body- to find the hour angle of a body at rising or setting - to find the duration of day time -to trace the changes in the azimuth of a star in the course of a day. (with worked examples)

14

Semester III

UMTN31 RESOURCE MANAGEMENT TECHNIQUES

2 Hours / 2 Credits

Objectives

- To impart the basic concepts and applications of linear programming.
- The leaner will analyze the different aspects of transportation problems, assignment problems and also sequencing problem.
- The leaner will develop, organize, evaluate short, long term processes and solve problems
- The leaner will acquire the knowledge of basics in game theory

Unit I: Definition-Mathematical formation of the Linear Programming Problem- Basic Solution- Degenerate Solution- Basic Feasible Solution of the Linear Programming Problem.

Unit II: Transportation Problem: Definition-Mathematical form of L.P.P-Table-Find Intial Basic Feasible Solution - North West Corner Rule -Row Minima-Colum Minima- Least Cost Method- Vogel's Approximations Method(VAM) - Un balanced Transportation problem- Only upto Intial Basic Feasible Solution.

III: Assignment Problem: Definition-Mathematical formulation of the problem-Hungarian Algorithm - Simple Problem .

Unit IV: Sequencing Problem: Definition-Problem of Sequencing- Basic Terms Used in Sequencing- Processing n jobs & Two machine- Processing n jobs Through two Machines.

Unit V: Game Theory: Definition- Two-Person Zero-Sum Games- Some basic terms- The Maximin-Minimax Principle- Game without Saddle point- Mixed Strategies - Graphic Solution of $2 \times n$ and $m \times 2$ games.

Text Book:

Kanti Swarup, P.K. Gupta, Man Mohan"Operations Research", Sultanchand and sons, Edition - 2017.

Unit I - Chapter 2 and 4.

Unit II - Chapter 10.

Unit III - Chapter 11.

Unit IV - Chapter 12.

Unit V - Chapter 17.

Reference Book:

P.R. Vittal and V.Malini, "Operations Research" Margham Publishers - 2002.

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Semester IV

UMTS42

ASTRONOMY-II

2 Hours / 2 Credits

Objectives

- Learnice able to knowledge about the Earth's pole, it is counterclockwise rotation.
- Knowledge of equation of Time, seasons from earth rotation
- Calculation to prepar calculer and conservation of Time.
- It applies mathematics, physics, and chemistry.

Unit 1: The zones of earth -to trace the variations in the durations of day and night during the year at different stations -to find the duration of perpetual day in a place of latitude - to find analytically the conditions for perpetual day and night -Terrestrial latitudes and longitudes - Phenomena depending on the change of latitudes and longitudes-Date line - Shape of Earth - Geographical and geocentric latitudes of a place - to find the reduction of latitude -Ellipicity - to prove that reduction of latitude is c sin2φ- to find the geocentric distance of a station of geographical latitude φ - to find the radius of curvature of the earth at a station of geographical latitude φ - Geographical and Nautical mile.

Unit II: Radius of earth - Another method to determine the radius of earth - arguments in favour of earth's rotation - experimental proofs for the rotation of earthDip of Horizon -to find a expression for Dip.

Unit III: To find the distance between two mountains whose tops are just visible from each other
– Effects of Dip- to find the acceleration in the time of rising of a star due to dip-Twilight –tofind
the duration of twilight- to find the condition that twilight may last throughout night –to find the
number of consecutive nights having twilight throughout night – to find the duration of twilight
when it is shortest- civil, nautical and astronomical twilights.

Unit IV: Equation of time: Introduction- Dynamical mean sun- equation of time — analytical expression for the equation of time —effect of equation of time on the lengths of morning and evening-to prove that the equation of time vanishes four times a year —seasons —causes of seasons.

Unit V: Calendar:Different kinds of year -civil year, Julian calendar - Gregorian calendar - Julian date -Besselian year -Conversion of Time: Relation between sidereal and mean times -to convert mean solar time into sidereal time - to convert sidereal time into mean solar time - to find the sidereal time at a given instant of mean solar time on a given date at Greenwich - to find the mean time corresponding to a given instant of sidereal time at Greenwich - the difference between local times - to find the sidereal time from local mean time for a given place- to find the

22

Semester IV

UMTN42

MATHEMATICAL APTITUDE

2 Hours / 2 Credits

Objectives

- To impart skills in numerical and quantitative techniques.
- able to critically evaluate various real life situations by resorting to Analysis of key issues and factors.
- able to demonstrate various principles involved in solving mathematical problems and thereby reducing the time taken for performing job functions.

Unit 1: Numbers - HCF - LCM - Problems on numbers. (Chapters 1, 2 & 7)

Unit II: Decimal Fractions and Simplification. (Chapter 3 & 4)

Unit III: Surds and Indices - Percentage - Profit and Loss. (Chapters 9, 10 & 11)

Unit IV: Ratio and Proportion - Partnership - Allegation or Mixture. (Chapters 12, 13 & 20)

Unit V: Average - Problems on Age. (Chapters 6 &8)

R.S.Aggarwal, Scope and treatment as in "Quantitative Aptitude", S.Chand & Company Ltd.,

Ram Nagar, New Delhi -2007.

Semester VI

UMTS64

NUMERICAL METHODS LAB USING C++

2 Hours / 2 Credits

- Write a Program to find the Smallest positive / Largest negative root using simple iteration method
- Write a Program to find the Smallest positive / Negative root using Regula Falsi method.
- Write a Program to find the Smallest positive / Negative root using Newton-Raphson's i method.
- 4. Write a Program to find the solution of system of equation using Gauss Jacobi method..
- 5. Write a Program to find the Matrix inversion using Gauss Jordan method
- Write a Program to interpolate y for given x from the given sets of values of x and y by Newton's forward method.
- Write a Program to find interpolate y for given xfrom the given sets of values of x and y by Newton's backward method.
- 8. Write a Program to find interpolate y using the Lagrange's method
- 9. Write a Program to derivative at initial point by Newton's forward method
- 10. Write a Program to integration using Trapezoidal & simpson's method

Text Book:

 T.VEERARAJAN& T.RAMACHANDRAN, "Theory and Problems in Numerical Methods with Programs in C and C++", Tata McGraw Hill Publishing Company Ltd, 2004.

PG AND RESEARCH
DEPARTMENT OF MATHEMATICS
M.V. MUTHIAU GOVT, ARTS COLLEGE (W)
DINDIGUE, TAMBENADU.

COURSE U21MTS64		L	Т	P	C
SKILL BASED	OPERATIONS RESEARCH LAB		551	125	
ELECTIVE -IV		2	8	7	2

Objectives:

To familiarize students with the basic concepts, models and techniques for effective decision making, model formulation and applications.

Prerequisites: Operations Research - I

Use of Operations Research Software such as LINDO, LINGO, TORA etc., to solve

- Linear programming Problems
- Sensitivity analysis in LPP problems
- Integer Programming Problems
- Transportation Problems
- Assignment problems
- Problems on CPM/PERT
- · Non Linear Programming problems
- Queuing problems

Reference Books:

- Hamdy A. Taha, "Operations Research An Introduction", Eight Edition Pearson Education – Prentice Hall.
- LINDO User's Manual LINDO Systems, Inc.
- Optimization Modeling with LINGO 5 th edition LINDO Systems, Inc.

Course Outcome:

On the	successful course completion, students will be able to	Cognitive Level
COI	understand the basic concepts and approximent of ap	Kı
CO2	know principles of construction of mathematical models of conflicting situations.	
CO2	analyze the relationship between a linear program and its dual	K3
CO3	techniques constructively to make effective decisions in business and solve problems in industry	K4
CO5	build and solve all problems by using software.	K4

K1- Remember: K2- Understand : K3-Apply, K4- Analyse, K5- Evaluate; K6- create

PG AND ELEMENT Page 76
DEPARTMENT OF MATTER TOPS

DINDIGUL, TAXILNADE,

B SC MATHEMATICS MTWIJ SYLLABUS 2021 ONWARDS

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes

	POI	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
COL	M	S	S	S	S	S	S	S	M	M
CO2	M	M	S	M	S	M	S	M	M	S
CO3	S	S	S	M	S	S	М	S	M	M
CO4	S	M	M	S	S	M	S	S	M	M
CO5	M	S	S	M	S	M	S	S	M	S

*S-Strong; M-Medium; L-Low

PG AND RESEARCH
DEPARTMENT OF MATHEMATICS
M.V. MUTHIAH GOVT. ARTS COLLEGE (*)
DINDIGUL, TAMILNADU.

VALUE ADDED PROGRAM

COURSE P21MTVII CODE SEMESTER-1	PYTHON LANGUAGE	1.	T	P	0
		10 10	8		2

Objectives:

- To understand the fundamentals of Python Programming.
- To get knowledge about the Functions in Python.
- To understand the concepts of List and String methods.
- To gain idea about exception handling and classes.

Unit-1: Introduction to Python:

Introduction to Python: Introduction - Python Overview - Getting Started with Python - Comments

- Python Identifiers - Reserved Keywords - Variables - Standard Data types.

Unit- II: Operators:

Types of Operators - Statement and Expressions - String Operations - Boolean Expressions -Control Statements - Iteration While Statement - Input from Keyboard.

Unit- III: Functions:

Functions introduction - Built-in Functions - Composition of Functions - User defined Functions Parameters and Arguments -Function Calls- The return statement - Python Recursive Functions The Anonymous function - Writing Python Scripts.

Unit -IV: Strings and Lists:

Introduction about Strings and Lists: Strings - Lists. Tuples and Dictionaries: Tuples -Dictionaries.

Unit -V: Files and Exceptions:

Files and Exceptions introduction - Text Files - Directories - Exceptions - Exceptions with Arguments- User defined Exceptions-Classes and Objects.

I. E. Balagurusamy, "Problem Solving and Python Programming by ". McGraw-Hill first edition (2017)m

Reference Books:

- 1. Ashok Namdev Kamthane, , Amit Ashok Kamthane, "Programming and Problem Solving with Python". (2017),
- John B. Schneider Shira Lynn Broschar Jess Dahmen). "Algorithmic Problem Solving with Python" (2019

Course Outcomes (CO)

		KI
COI	To implement basic concepts of operators and functions.	K2
CO2	To Review various string, list, tuple and dictionaries.	K3
CO3	To evaluate the functionality of an exception handling.	K4
CO4	To analyze the concept of classes and objects	

K1- Remember, K2- Understand: K3-Apply, K4- Analyse, K5- Evaluate, K6- Create

Mapping with Programme Outcomes:

Mapp	ung w	1111 1 1 1/13		Texas at	PO5	PSO1	PS02	PSO3	PSO4 PSO3
COs POs	POI.	PO2	PO3	PO4	100	S	S	S	5
CO1	S	S	S	31	6	8	S	S	In S
CO2	S	S	S	IVI.	6	S	M	S	6 8
CO3	S	S	S	5	0	S	S	M	N S
CO4	S	5	M	0	N/I	S	S	S	INI.
COS	8	S	15	0	201				

S-Strong = 3, M-Medium= 2, L-Low = 1

Page

COURSE P21MIVII		1	T	P	C
Value Added	PYTHON LAB		-	10	2
Program-1					100

Objectives:

- To gain knowledge about the fundamentals of python programming.
- To understand the concepts of string, list, tuple.
- To implement the concept of exception handling, classes and objects

List of Practical Programmes:

- Write a python program to print the prime numbers in given range.
- 2. Write a python program in to calculate the area of a triangle.
- 3. Write a python program to find HCF of the given numbers.
- 4. Write a python program to create a simple calculator
- 5. Write a python program to display Fibonacci series sequence using recursion.
- 6. Write a python program to demonstrate the string methods.
- 7. Write a python program to demonstrate the built-in list methods.
- 8. Write a python program to define a function that prints a tuple whose values are the
- 9. Cube of numbers between 1 Ind 10.
- 10. Write a python program to demonstrate exception handling.
- 11. Write a python program to demonstrate classes and their attributes.

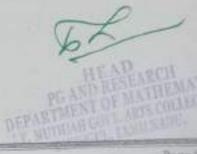
Course Outcomes (CO)

COI	To implement basic operators and function	K3
CON	entities to the same of the sa	K4
CO2	To Review various string and list methods.	KS
CO3	To execute exception handling.	Pal

Mapping with Programme Outcomes:

									and the same of th	
	-	-	Inon	P04	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
COs/POs	POL	POZ	PO3	INC.	E CO	10	100	6	S	S
and professional and the second	9	S	S	S	S	5	3	9	-	-
COl	12	10	0	14.1	6	19	S	S	M	9
CO2	S	5	13	IVL	127	0	1.4	0	S	S
003	K	S	5	S	5	12	1973	1-3	12	187.00
	163	2445	1000							

S- Strong = 3, M-Medium= 2, L-Low = 1



		LTPC
COURSE P21MTN212 CODE	OPERATION RESEARCH	4 - 4
SEMESTER-II		

Objectives

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- To ampart the basic concepts and applications of linear programming.
- The leaner will formulate a linear programming problem and solve them graphically and simple. simplex method
- The leaner will be able to understand the concepts of duality programming.
- ❖ The leaner will analyze the different aspects of transportation problems and also assignment problems
- Students will be able to identify the basic analysis of various inventory models.
- The leaner will develop, organize, evaluate short, long term processes and solve problems

Unit - I: Linear Programming problem:

Introductions- Linear Programming, Mathematical formulation of linear programming problem-Basic Solution - Solving Linear Programming problem using Graphical solution-Unbounded and Infeasible solution in graphical methods -Simplex method - Use of Artificial Variables: - Big M Method - Two Phase Method - Problems using this methods

Transportation Problem introduction Mathematical formulation of the problem - Finding Initial Unit -H: Transportation Problem: Basic Feasible Solution using North - West Corner Rule - Row minima methods- Column minima method - Matrix Minima Method - Vogel's Approximation Method - Optimum solution - MODI method.

Assignment Problem: Introduction - Definition of Assignment Problem - Mathematical formulation of Assignment Problem - Assignment Algorithm - Problem solving using Assignment Algorithm-Application of Assignment Problem. Minimization case routing problem

Replacement Problem: Introduction about Replace problem - Definition Replace problem - and System Reliability - Replacement of Equipment that Deteriorates Gradually- Exercise Problems -Replacement of Equipment the Fails Suddenly-problems in replacement of Equipment the Fails Suddenly

Unit - V: Network Scheduling by Pregame Evaluation and Review Techniques PERT/ Critical Path Method -CPM:

Network Scheduling by PERT/CPM: Introduction network and Basic Components- Rules of Construction -Problems in Network Scheduling using CPM -Critical Path Analysis - Probability Considerations in PERT - Problems in Network Scheduling using PERT Distinction between PERT and CPM.

PEAND RESEARCH PARE 63

Text Book:

1. Kanti Swarup, P.K. Gupta, Man Mohan, "Operations Research", Sultan Chand & Sons, Educational Publishers, New Delhi 2013

Reference Books:

- 1. Pannecrselvam.R. "Operations Research", 2nd Edition, PHI Learning Private Limited.
- Prem Kumar Gupta, Er, Hira, D.S. "Operations Research", 7th Edition, S. Chand & Company Product 2014.
- Pvt.Ltd.2014 Edition, 3. Hiller, F.S & Lieberman, J. "Introduction to Operation Research ", 7"
- 4 G. Srinivasan, "Operations Research principles and applications", Second Edition, PHI
- 5. Taha H.A., "Operations Research: An introduction" Prennce Hall of India Private Ltd 1st Edition New Della (2002) Edition New Delhi (2008) .

Course Outcome:

On the	successful course completion, students will be able to:	Cogmitive
COl	understand the application of OR and frame a LP Problem with solution – graphic and through solver add in excel	Vacant
CO2	analyze and interpret results of transportation and problem using appropriate method Solutions of assignment and problem using appropriate method	
003	evaluate simple model of L.P.P.	K3
CO4	understand and evaluate of CPM and PERT define basic components of Network and find critical path	K4, K5
CO5	find the replacement period of equipment that fails suddenly/gradually	May No

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

COURSE	U21MTS53	MATTIES	L	Т	P	С
THE PROPERTY OF STREET	BASED TVE III	MATHEMATICAL APTITUDE	2		-	2

Objectives:

- To impart skills in numerical and quantitative techniques.
- Able to critically evaluate various real life situations by resorting to Analysis of key issues and factors.
- Able to demonstrate various principles involved in solving mathematical problems and thereby reducing the time taken for performing job functions.

Unit- I: Numbers system:

HCF - LCM - Problems on numbers. (Chapters 1, 2 & 7)

Unit- II : simplification:

Decimal Fractions and Simplification. (Chapter 3 & 4)

Unit- III : Profit and Loss :

Surds and Indices - Percentage - Profit and Loss. (Chapters 9, 10 & 11)

Unit- IV: Ratio:

Ratio and Proportion - Partnership - Allegation or Mixture. (Chapters 12, 13 & 20)

Unit -V : Average :

Average - Problems on Age. (Chapters 6 &8)

Text Book:

R.S.Aggarwal, "Scope and treatment as in "Quantitative Aptitude", S.Chand & Company Ltd., Ram Nagar, New Delhi -2007.

Reference Book:

Dr.J.Jayaprakash, "Quantitative Aptitude", 2nd edition, Dr.JP Publication, 2017.

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NON MAJOR ELECTIVE- FOR OTHER DEPARTMENT

COURSE U21MTN31	OTHER DEPARTME	NT			
SEMESTER - III	RESOURCE MANAGEMENT TECHNIQUES	L	Т	P	С
		2			2

Objectives:

- To impart the basic concepts and applications of linear programming.
- The leaner will analyze the different aspects of transportation problems, assignment problems and also sequencing problem.
- The leaner will develop, organize, evaluate short, long term processes and solve problems
- The leaner will acquire the knowledge of basics in game theory

Unit-I: Linear Programming Problem:

Definition-Mathematical formation of the Linear Programming Problem- Basic Solution-Degenerate Solution- Basic Feasible Solution of the Linear Programming Problem.

Unit-II: Transportation Problem:

Introduction and Definition-Mathematical form of L.P.P-Table-Find Intial Basic Feasible Solution - North West Corner Rule -Row Minima-Colum Minima- Least Cost Method- Vogel's Approximations Method(VAM) - Un balanced Transportation problem- Only upto Initial Basic Feasible Solution

Unit-III: Assignment Problem:

Introduction and Definition of Assignment Problem - Mathematical formulation of the problem-Hungarian Algorithm - Simple Problem.

Unit-IV: Sequencing Problem:

Introduction and Definition of Sequencing Problem -Problem of Sequencing- Basic Terms Used in Sequencing- Processing n jobs & Two machine- Processing n jobs Through two Machines.

Unit-V: Game Theory:

Definition- Two-Person Zero-Sum Games- Some basic terms- The Maximin-Minimax Principle-Game without Saddle point- Mixed Strategies - Graphic Solution of 2 × n and m × 2 games.

Text Book:

Kanti Swarup, P.K .Gupta, Man Mohan"Operations Research", Sultanchand and sons , Edition - 2017.

Unit I - Chapter 2 and 4

Unit II - Chapter 10

Unit III - Chapter 11

Unit IV - Chapter 12

Unit V - Chapter 17

Reference Book:

- 1.P.R.Vittal and V.Malini, "Operations Research" Margham Publishers 2002.
- 2.Taha, "Operation Research", Printice Hall, New Delhi,2011
- 3. Kalavathy, "Operations Research", Vikas Publishing House Pvt .Ltd. 2003
- 4. Gupta P.K & Hira D.S ,"Problems in Operations Research", S.Chand& Co, Delhi , 2006
- V.Sundaresan, K.S. Ganapathy Subramanian, &K.Ganesan, "Resource Management Techniques" (Operations Research), A.R. Publications, Nagapattinum District

Course Outcome:

On the	successful course completion, students will be able to	Cognitive Level
COI	formulate the real life problems as Linear programming problem.	KI
CO2	use to solve Linear programming problems	K2
CO3	identify degeneracy in transportation problem	K3
CO4	calculate the optimal solution from the feasible solution using	
CO5	obtain the optimal solution for Assignment problems, Sequencing problem, Game Theory	K4

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific

S			1	I nos	DCO1	DSO2	PSO3	PSO4	PSO5
PO1	PO2	PO3	PO4	POS	P301	1207		0	M
		2	M	S	S	S	5	3	IVI
2	IVI	0	0		M	M	S	M	S
S	S	S	5		IVI		-	S	S
0	C	S	M	S	S	M	3	5	-
3	3	0	0	0	M	S	M	S	S
M	S	S	5		17.		2	S	M
_	2	S	S	M	S	IVI .	3	9	1.00
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*S-Strong; M-Medium; L-Low

PE AD
PE AND RESEARCH
DEPARTMENT OF MATREMATICS
AV. MUTHIAH GOVT, ARTS COLLEGE (W.)
DINDIGUL, TAMILNADU.

B.Sc. Mathematics

Semester: V

No. of Hours / Week: 2

Subject Code: SBS3

Skill Based Subject Paper - 3

No. of Credit: 2

ACCOUNTANCY I

Unit I:

Accounting Concept, Conventions – Rules of accounts.

Unit II:

Books of Accounts double entry system - Journal, ledger and trial balance.

Unit III:

Subsidiary Books-Purchase Book, Sales Book, Cash Book, Petty Cash Book.

Unit IV:

Final accounts of sole trading concerns. (Simple problems only)

Unit V:

Depreciation- Causes-Methods of Depreciation -Merits & demerits. (Theory only). 40% Theory - 60% Problems

Text Books:

- 1. N.Vinayakam, P.L.Mani and K.L.Nagarajan, "Principles of Accountancy", Eurasia Publishing House Pvt Ltd., New Delhi - 55, 2000.
- 2. Reddy .T.S., & A.Murthy , "Financial Accounts", Margham Publishers.

DINDIGUL, TAMILNADU.

B.Sc. Mathematics

Semester: VI

No. of Hours / Weck: 2

Subject Code: SBS4

No of Credit: 2

Skill Based Subject Paper - 4

FUZZY LOGIC

Unit I

Classical sets: Relations and functions - Definition of Fuzzy sets - Basic Operations on Fuzzy sets.

Unit II

Fuzzy numbers - The Triangular Fuzzy Numbers -Trapezoidal Fuzzy Numbers.

Unit III

Fuzzy Relations - Basic Operations on Fuzzy Relations -Basic concepts of classical logic -many valued logic.

Unit IV

Linguistic variables – Linguistic Modifiers – Compositions Rules for Fuzzy Propositions.

Unit V

Statistical Average - Arithmetic Operations with Triangular and Trapezoidal Numbers.

Text Book:

 George Bojadziev and Maria Bojadziev, 'Fuzzy Logic for Business, Finance and Management' 2nd Edition. World Scientific Publishing Co Pvt Ltd. Singapore. 1996.

B.Sc. Mathematics

Semester: III

Non Major Elective Paper - 1

No. of Hours / Week: 2

Subject Code: NME1

No. of Credit: 2

OPERATIONS RESEARCH

Unit T

Definition - Mathematical formation of the Linear Programming Problem- Graphical solution method- Some exceptional cases- General Linear Programming Problem - Canonical and Standard form of Linear Programming Problem - Basic Solution- Degenerate Solution- Basic Feasible Solution of the Linear Programming Problem.

Unit II:

Transportation Problem: Definition - Mathematical form of L.P.P - Table - Find Intial Basic Feasible Solution - North West Corner Rule - Row Minima - Colum Minima Least Cost Method- Vogel's Approximations Method (VAM) - Un balanced Transportation problem- Only upto Intial Basic Feasible Solution.

Unit III:

Assignment Problem: Definition - Mathematical formulation of the problem - Hungarian Algorithm - Simple Problem - Special Case in Assignment Problem-The Trawelling Salesman Problem.

21

PG AND RESEARCH
DEPARTMENT OF MATHEMATICS
M.V. MUTHIAN GOVT, ARIS COLLEGE (W)
DINDIGUL, TAMILNABU.

UNIT III

Logic - Statements - Conjunction - Disjunction - Negation - Conditional - Biconditional.

TINIT IV

Propositions and truth table - Tautology and contradiction.

UNIT V

Logical Equivalence, Algebra of propositions. Logically true and Logically equivalent statement.

Text Book

 J.P.Tremblay, R. Manohar - "Discrete Mathematical Structures with Applications to Computer Science".
 Tata McGraw - Hill Edition 1997.

B.Sc. Mathematics

Semester: IV

No. of Hours / Week: 2

Subject Code: SBS2

Skill Based Subject Paper - 2

No. of Credit: 2

THEORY OF NUMBERS

Unit I:

Divisibility: Associates - Division algorithm - gcd (HCF) - Euclidean algorithm - l.c.m.

Unit II:

Prime and Composite Numbers: Coprimes – Sieve of Eratosthenes – Euclid's theorem – Unique Factorization – Fundamental Theorem of Arithmetic – Positional Representation of Integers - Euler Function Φ (n) – Greatest integer function.

28

PG AND RESEARCH
DEPARTMENT OF MATHEMATICS
M.V. MUTHUAH GOVT, ARTS COLLEGE (W)
MINDIGUL, TAMILNADU.

B.Sc. Mathematics

Semester: IV

No. of Hours / Week: 2

Subject Code: NME2

Non Major Elective Paper - 2

No. of Credit: 2

SET THEORY AND LOGIC

UNIT I

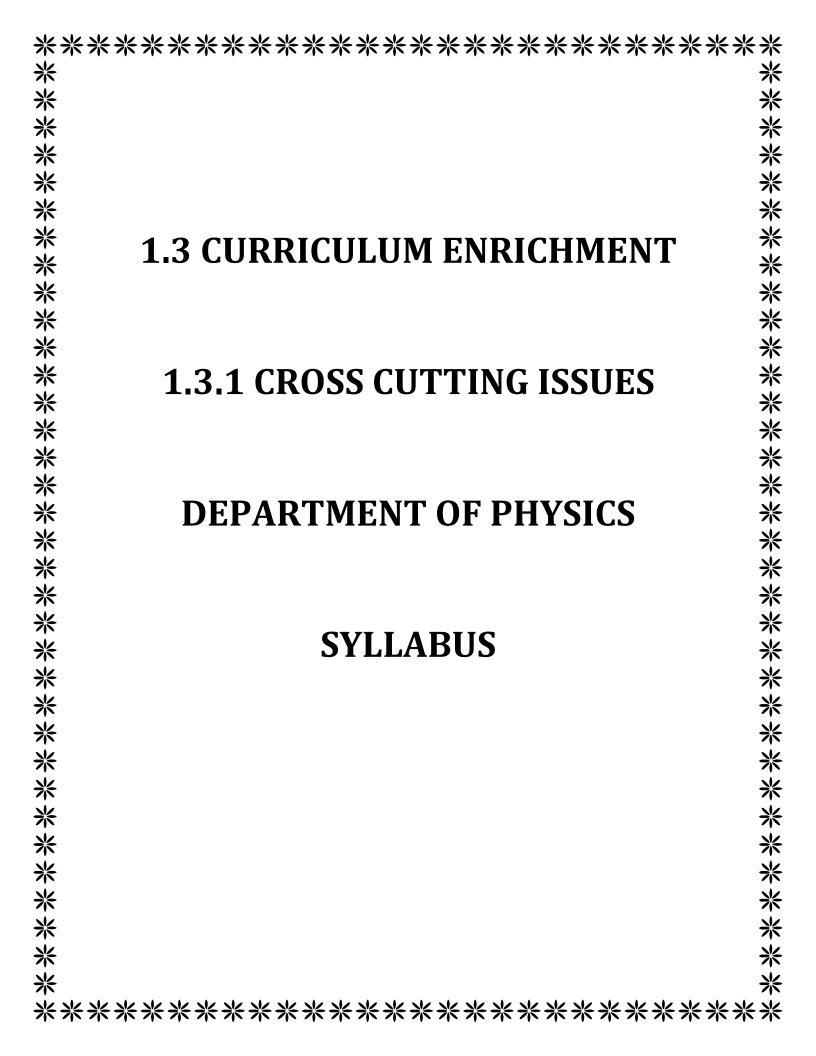
Basic set operations – Union – Intersection – Difference – Complement.

UNIT II

Reflexive - Symmetric - Transitive - Antisymmetric - Poset - Definition.

27

PG AND RESEARCH
DEPARTMENT OF MATHEMATICS
N.V. MUTHEM GOVT. ARTS COLLEGE (W)
RESEARCH
RESEARCH
DEPARTMENT OF MATHEMATICS



Course	P21ECS11	COMMUNICATION SKILLS FOR BUSINESS	L	T	P	C
CAN OR DESIGNATION AND ADDRESS OF THE PARTY AN	ORTIVE URSE I		2	The last	-	2

Course Objectives

- 1. To improve the listening skill of the students
- 2. To improve the writing skill of the students
- 3. To impart the knowledge of business communication
- 4. To impart the skill of personality development
- 5. To train the students in stress management

UNIT 1: Introduction to Communication

(6 hours)

Communication-meaning of communication- Objectives-types of communication-importance of effective communication- barriers -Business letter-sales letters-Dealing with non-payment problems-complaints-circular letters

UNIT II: Business Correspondence

(6 hours)

Enquiries-Replies- Complaints-Preparing a Curriculum Vitae or a Resume-Application letter-Offer letter-Acceptance letter-Testimonial

UNIT III: Reports

(6 hours)

Reports-structure- Formal Report- Informal Report-Check list for compiling reports- Preparing Minutes of meeting-Compiling a press release

UNIT IV: Communication Skills

(6 hours)

Basic skills and techniques for talking to people in business situation-Telephonic conversation

UNIT V: Personality Development

(6 hours)

Body language- Personality Development-Stress management-Role of technology in communication

Text Book:

 Puspalatha and Sanjay Kumar, Communication Skills, Oxford University Press, New Delhi,2017

References

Page 19

for

Head of the Department Department of Economics

M.V.Muthiah Govers

Kurthin

15 for Women

Course Code ELEC	P21ECE421	ECONOMICS OF HUMAN RESOURCE	L	Т	P	C
	CTIVE-III		4			1

Course Objectives

- To familiarize the concepts of human resources
- 2. To gain sound knowledge on issues in Education
- 3. To enable the students to know about the importance of investment in health
- 4. To gain knowledge on Wage theories
- 5. To enable the student to understand the human resource requirements.

UNIT I: Human Resource and Economic Development

(12 Hours)

Importance of Human Resource-Human Resource and Economic Development-Investment in Human Capital- Unemployment- Types, Causes and remedies.

UNIT II: Investment on Education

Importance of Education- Education and Economic Development- Women's Education- Issues

UNIT III: Investment on Health

Importance of human Resource in Health- Investment in Health-Healthcare Expenditure in India-Healthcare Issues and Challenges- Health Insurance for poor.

UNIT IV: Labour Market

Theories of Labour Market- Wage theories-Trade Unions- Women and Child Labour- Labour Market Discrimination-Wage discrimination- Social Security in India.

UNIT V: Human Resource Planning

(12 Hours)

Importance of Human Resource Planning-Forecasting Human resource requirements-Orientation and Training-Training process.

Text Book

Jaysankar, J, Human Resource Management, Margham Publications, Chennai, 2011

Page 53

Head of the Department

Department of Economics For M.V.Muthiah Government Arts College for Women

Dindigul

SEMESTER III SKILL BASED ELECTIVE PAPER I

UPHS31 Credits HOME APPLIANCES

2 Hours/2

Objective: To introduce students with conceptual knowledge and skills regarding simple homeappliance and its working.

UNIT 1:

Electrical wiring - Earthing -switches & socketsfuse-circuits breakerwiring of tube lights

UNIT II:

Geiser- protection -washing machine-top loading & front loading - drier-dish washer

UNIT III:

Microwave oven- induction stove-conventional oven- bread toaster- electric cooker-mixergrinder- vacuum cleaner

UNIT IV:

Emergency lamp-UPS-automatic street light- refrigerator

UNIT V:

Air-conditioner- window & spilt- air cooler- electric chimney- exhaust

Department of Physics
INVIN Govil. Arts College (W)
Department of Physics
INVIN Govil. Arts College (W)

NON MAJORELECTIVE(NME)

(RECESSION)	1217915033	CHOICE	15	M	60	83
SUM	STERON	HOUSEHOLDAPPLIANCES	1 3	1	17	3

To accommod the working principles of different homeshold domestic appliances and accommodate control appliances for the generally subtrabasis and science further

Stringe, Corrent, Resistance, Capacinnon, Industrace, Dectrical conductors and Pendators, New Staw, Series and parallele on binations of resistors, Claiv anomator, Amuscler, Volt. ments. Mallamore, Franslamers J. Incircularatys, Person B. Romanhauerk Whit accessing monoil processed present

Direct current and eltereating current RMS and peak values, Power factor, Single phase anothers phase connections. Basics of House warms, Llectric shock, First and for electric shock Overloading, Earthing and its necessity. Short circuiting, Fusen, MCB, ELCB, Insulation.Imperier,UPS

DINEES HE

Principles of working, parts and servicing of Electric fan, Electric from box, Water Scaner, Induction Seates, Scientistasy overs, Refrigurator, Concept of illumination, Electric publick FLLEF Dlights. Energy efficiency inelectrical appliances, IS codes& Hicodes.

LNITIV

- 1. Study ingraeciecarical performance undpower vocasum prica of a given number of builds cornec techn series and parallel circuits
- Measuringparameters in combinational DC circuits by applying Xim allawfordifferentesistorvalues and voltage sources
- Awarenessof electricalsafetytools andrescucofpenionin consuctwithlive wire
- 4. CheckingthespecificgravityoflandacidhatteriesishumeUPSandtopping-upwithdistilled
- 5. IdentifyingPhase, Neutraland Earthonpowersockets.

UNIT V

- I Identifying primary and secondary windings and measuring primary and secondary voltages in various typesoftransformers.
- Observing the working of transformer underno-load and full load conditions.
- Observing the response of inductorand capacitor with DC and AC sources.
- 4. Observing the connections of elements and identify current floward voltagedrops.
- 5. Studyingelectricalcircuit protectionusingMCBs,ELCBs

Text Books:

- 1. B.L. Theraja, A.K. Theraja, A Text book on Electrical Technology, S.Chand&Co., Reprint (2018)
- 2. M.G.Say, The Performance and Design of Alternating Current Machines, 2002

Page:66

BOX BOY SAIN Department of Physics MVM Govt Arts College (W) Dindigul

SEMESTER IV SKILL BASED ELECTIVE PAPER II

UPHS42 Credits

BIOMEDICAL INSTRUMENTATION 2 Hours/2

Objective: To introduce the undergraduate students with important biomedical instruments toknow their body functions and its measurements through technical instruments.

Unit I

Bio-Potential Electrodes Electrodes- half of potential - purpose of electrode paste- Electrode material- types of electrode.

Unit II

Microelectrode-Metal microelectrode, Micropiper, depth and needle electrodes, surface electrodes.

Metal plate electrodes, multi point electrode, chemical electrode, hydrogen electrode.

System Characteristics for ECG, EEG, EMG, ERC-EOC.

Pace Maker- Pace Maker batteries- defibrillators, synchronized and square pulse defibrillators-nerve and muscle stimulators.

Books for study:

1.Biomedical Instrumentations - M. Arumugam- Anuradha agencies, Kumbakonam,

MULL GOV. Ans College (W)

SEMESTER V SKILL BASED ELECTIVE PAPER III

UPHS53

ENTERTAINMENT ELECTRONICS Hours/2 Credits

Objective: To impart knowledge on basic electronic devices used for media and entertainment. Also to make them learn its construction and working in detail.

UNIT I:

Television, tape recorder and loud speaker, public address system, basic theory and working

UNIT II:

Introduction to DVD, Cameras-film and digital camera

UNIT III:

Basic theory of VCD and Computer

ENFEIVE

i-pod, i-phone, cell phone and laptop

UNIT V:

Introduction to Internet-film and video projector-DTH

For Burgaran

SEMESTER VI

SIGILL BASED ELECTIVE PAPER IV

17711564

MICROPROCESSOR

I Hours/2 Credits

Objective: To make undergraduate students of physics aware of basis concepts of microprocessor, Architecture of 8085 and its applications, solve simple sussection using the concept.

Deale &

Architecture of 8085 - Register organization - Concept of buses - control signate

Unit 11

Pin Canfiguration of 8085 - Addressing mode of 8085 with examples.

Twis !!

Instruction Set - Types of Instruction - Classification - Classification of Instruction

Unit IV

Data Transfer Instruction - Branch Instruction - Arithmetic and Lugic Instruction

Emit V

Sub-routines - Assemble Language - programming Simple Programs

Books for Study:

Microprocessor - B. Ram, Dhanpat Rai Publications, 2005.

Microprocessor, Architecture, Programming and Applications Ramesh Goanker, Wiley Eastern Lt

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NON-MAJOR ELECTIVE COURSES

Code	PZIPHN211	ZIPHN211 ELEMENTS OF NANOSCIENCEAND	132	T	P	5
NA	IE-I	NANOTECHNOLOGY	5	-	-	4

OBJECTIVES:

- To provide the basic Knowledge about basics navoscionce and technology
- To acquire the knowledge about synthesis methods and characterization techniques and its applications.

UNIT I: OVERVIEW OF NANOSCIENCE

Introduction Emergence of Nanotechnology-Bettom up and top-down approacheschemical potential as a function of surface curvature interaction between two particles DEVO theory-applications; based gap angineering quantum devices-tuno mechanicsphotoelectrochemical cells.

UNIT II: DIFFERENT CLASSES OF NANOMATERIALS

Metal and Semiconductor Nanomaterials, Quantum dots, Wells and Wires, Molecule to Bulk Transitions Bucky Balls and Carbon Nanotabes.

UNIT HE SYNTHESIS OF NANOMATERIALS

Top-down (Namilithography, CVD), homomoup (sol-get processing, chemical synthesis), Wet Deposition Techniques, Self-assembly (Supra molecular approach), Molecular Design and Modeling.

ENIT IV: CHARACTERIZATION

TEM, SEM and SPM Technique, Fluorescence Microscopy and Imaging.

UNIT V: APPLICATIONS

Solar Energy Conversion and Catalysis, Molecular Electronics and Printed Electronics Nanoelectronics, Polymers with a special architecture, Liquid Crystalline Systems, Linear and Nonlinear Optical and Electro Optical properties. Applications in Displays and other devices, Advanced Organic Materials for Data Storage, Photonics, Plasmonics, Chemical and Biosensors, Nanomedicine and Nano Biotechnology.

TEXT BOOKS:

- Hari Singh Nalwa, Nanostructured Materials and Nanotechnology, Academic Press, 2002.
- Cao, Y Wong, Nanostructures and Nanomaterials (Synthesis, Properties and Applications), World Scientific, 2rd Edition, 2011 (Unit 1- V)

Department of Physics
MVM Govt. Arts College (W)
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VALUE ADDED COURSES

Code P21PHV111	CLASSIFICATION OF SOLAR	L	T	P	C
SEMESTER -1	FLARES IN X-RAYS		30		3
					U.

Objective:

 To determine different types of Solar flares using WARM telescope data observed in Kodaskanal Solar Observatory

Unit L

Solar Interior structure (Pressure Density, temperature, generation of energy, radiative and consective zones). Solar Neutrino

Unit II.

Solar Atmosphere: Photosphere-Model of solar photosphere- Chromosphere- corona

Coronal Mass Licotion-Solar flares-Causes-Classification - A, B, C, M and X Classes-Hu classification-Hazards

Optical Observation- Radio Observation- Space relescoper- Whitelight Active Region Monitor (WARM)Telescope - components GOES X-ray upace smellite

Observation of Solar flure using WARM telescope at Kodnikanul Solar Observatory-Identification of different class

Text Books

- 1. V.B. Bhatia, Textbook of Astronomy and Astrophysics with elements of cosmology. Alpha Science International India, 2000
- 2. B.W.Carroll & D.A.Outlie: An Introduction to Modern Astrophysics. 2" Edn. Cambridge University Press, 2017
- 3. Shu F, The Physical Universe, University of Science Press, 1981
- 4. K.D.Abhyankar, Astrophysics: Stars and Galaxies: Tata McCrass Hill Publication

Bot - Borow ut or Department of Physics WWM Cost. Arts College (W)

SEMESTER III NON MAJOR ELECTIVE PAPER

UPHN31 Credits

FUNDAMENTALS OF PHYSICS 2 Hours/2

Objective: To introduce non physics students with the basic concepts of physics

Unit 1

Atomic constituents - Duality - Particles and waves - Uncertainty principle Phases of matter Internal energy and temperature - If Law of Thermodynamics - Conductors, Insulators & Semi-conductors Superconductivity and super fluidity.

Unit H

Particle dynamics: Displacement, velocity and accelerationdistance -time graph-velocity - time graph - projectile motion uniform circular motion - tangential acceleration in circular motion - relative velocity and acceleration

Unit III

Gravitational force - Newton's law of gravitation - Electromagnetic force - Nuclear force- Central force - conservative force - Non conservative force - Work - Work done by a varying force - Energy - Kinetic Energy, Potential Energy - Power,

Unit IV

Crystal structures: Introduction - periodic array of atoms - crystal lattice - unit cell - basis - symmetry considerations - classification of crystals - Bravais lattices in three dimensions - crystal planes and Miller indices - simple crystal structures.

SOT. POTALIZATION

Unit V Conservation of energy - Planck's hypothesis - Mass-energy equivalence - Nuclear energy - Solar energy - Non-conventional sources of energy

Reference:

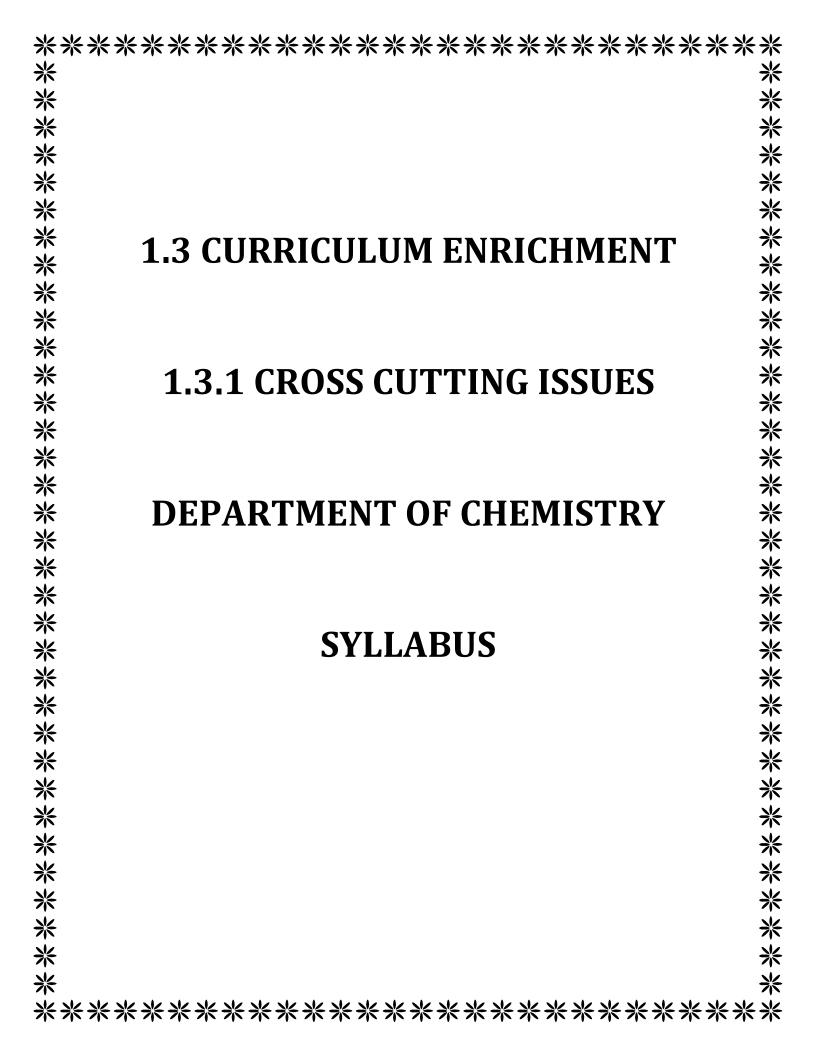
Hemne. S. Chand and Co.New Delhi, Fist edition 1981, Reprint 2015.

2 D.S. Mathur, Elements of properties of matter, S.Chand and Co., New Delhi, 1949.

2. C.Kittel , Introduction to solid state physics – Wiley eastern 6th edition, 1953, 4.Physics of particles, Matter and the Universe: Roger J Blinstoyle - Institute of Physics Publishing, Bristol (1997)

5.Science Matters, Robert' M. Hazen & James Trefil -Universities Press (India) Ltd.,(1991)

Department Physics (N) Only Con Acts College (N)



M.V.MUTHIAH GOVERNMENT ARTS COLLEGE FOR WOMEN, DINDIGUL PG DEPARTMENT OF PHYSICS COURSE CUTTING ISSUES

2022 - 2023

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S. NO	SUB.CODE	SUBJECT NAME	COURSE SIGNIFICANCE
1	SBE/UPHS42	BIOMEDICAL INSTRUMENTATION	Instruments that we are used to measure pressure, Heart beat, Temperature, blocks in brain, heartete, and many other parameters are working under the physics principles. Lasers, Thermometer, Nebulizer, and Stethoscope etc. are some of the Biomedical instruments.
2	SBE/UPHS53	ENTERTAINMENT ELECTRONIC	Electronics which is also the main branch of Physics is used in communication and entertainment applications such as telephony and telegraphy, optical communications, television communication.
3	NME/UPHN31	FUNDAMENTALS OF PHYSICS	It explains the concepts essential for scientific understanding.
4	NME/UPHN42	ELECTRONICS IN DAILY LIFE	In daily life, we use appliances like Calculator, digital watches, mobile phones, laptops and computers. So it is essential to study the course ELECTRONICS IN DAILY LIFE.
5	NME/U21PHN311	HOUSE HOLD APPLIANCES	House Hold Appliances like air conditioners, dishwashers, clothes dryers, and washing machines are the Electronic house hold appliances. All the, house hold instruments are based on physics principles.

Head of the Department Head Department of Physics

Department of Physics MVM Govt. Arts College (W) Dindigul

M.Sc. Physics, 2021, MTWU, Kodaikanat

I DENTIFICATION OF SOLAR RADIO BUYSTS

Course	P21PHV421	DIFFERENTIAL ROTATION OF	L	T	P	C
and the second second	STER-IV	SUNSPOTS FROM KOĐAIKANAL SOLAR OBSERVATORY (KSO) DATA	128	30		2

Objective:

 To monitor Space weather using solar radio burst data observed in Kodaikanal Solar Observatory

Solar Interior structure (Pressure Density, temperature, generation of energy, radiative and convective zones), Solar Neutrino

Unit II

Solar Atmosphere: Photosphere, Model of solar photosphere, Chromosphere, corona

Sunspots, their properties, cyclic variation, connection with magnetic fields, solar prominences, solar flares, ective regions

Unit IV

Solar Burst- Different types- Radio spectrometer- Detection

Data collection from Radio spectrometer at Kodaikanal Solar Observatory- Analysis of Spectrum- Space Weather Monitoring

Text Books

- 1. V.B. Bhatia, Textbook of Astronomy and Astrophysics with elements of cosmology, Alpha Science International India, 2000
- B.W.Carroll & D.A.Ostlie: An Introduction to Modern Astrophysics, 2nd Edn, Cambridge University Press, 2017
- Shu F, The Physical Universe, University of Science Press, 1981
- 4. K.D.Abhyankar, Astrophysics: Stars and Galaxies- Tata McGraw Hill Publication 2001

Head

NON MAJOR ELECTIVE

Course Code	U21CHN	COSMETIC CHEMIS	TRY	L	т	P	c
SEMI	STER - III			2			2
Dearning of che Objectives 2.To kno 3.To obt		o create awareness among the undergr of chemistry in day- to- day life, o know more about the cosmetics nature o obtain adequate knowledge and scier basic principles of cosmetic chemistry.	ral and artificial,			20180	le

Unit-1 - Natural Perfumes

Perfumes -plant and animal sources- examples -components of perfume - vehicle characteristics of good vehicle -fixatives and its types, odoriferous compounds, extraction of essential oils by distillation, enlarge and solvent extraction methods.

Unit- II - Artificial Perfumes and flavors

Preparation and uses of methyl anthranilate, methyl salicylate, methyl cinnamate, phenyl ethanol, citronellol, vanillin, commarin and heliotrope. Composition and preparation of rose and jasmine perfumes—manufacture of fruit flavors—fruit syrup preparation and composition of apple and pincapple flavors.

Unit-III - Hair Care Products

Shampoos – principal constituents – thickeners and foam stabilizers – perfumes – preservatives – conditioning agents – antidandruff shampoos. Hair cream – composition – hair dyes – types – constituents – dye removals

Skin Care Product

Skin cleansers – classifications – cold cream – cleansing milk – moisturizers – hand and body lotions – sun screen lotions – constituents

Unit- IV - Soaps and Detergents

Cleansing action of soap – differences between soap and detergents – ingredients and preparation of washing and bathing soap – TFM of bathing soap – composition of solid and liquid detergents – functions of ingredients in detergents.

Unit- V- Colour Cosmetics

Lipstick – constitutions – manufacturing method – lip glosses – nail polish – formulation – manufacture – face powder – constitution.

Dental Product

Oral care product - product categories - toothpaste - toothpowder - oral rinses - mouth washes.

Text Books:

1. Ramesh Kumari, Chemistry of Cosmetics, Prestige Publishers, 2018.

2. R. K. Nema, Textbook of Cosmetics, CBS, Publisher, 2017.

DEPARTMENT OF CHEMISTRY
11.V. MUTHIAH GOVT ARTS
COLLEGE FOR WOMEN Page 64

Course Code	U21C	HN42	APPLIED CHEMISTRY	L	T	P	C
SEMESTER -IV		-IV		2	-	-	2
Learning 2.3. Objectives 4.		2. To unde	stand the preparation and properties of Rurstand the preparation and properties of Planth the classification and importance of Fertiestand the use of chemicals in improvement	lastics and ilizers	d Re	sins.	

Unit - I - Elastomers

Natural rubber and synthetic rubber - Buna - N, Buna-S and neoprene. Rubber: Types-defects in natural rubber-vulcanization-synthetic rubbers- uses of neoprene, thiocol, silicone rubber and foam rubber.

Unit - II - Fibers

Definition, natural and synthetic fibers:Natural fibers (cellulosic and protenious) -Semi synthetic (Rayon) Synthetic fibers (Poly ester, Nylon and Acrylic) -Pretreatment of fibers (Sizing, Desizing, Bleaching).

Unit - III - Resins

Natural and synthetic resins - distinction between resins and plastics, action of ion exchange resins, separation of inorganic mixtures, applications, phenol- formal dehyde resins - amino resins-urea- formaldehyde and melamine-formaldehyde resins-polyurethanes -epoxy resins.

Unit - IV - Plastics

Classification- differences between thermoplastics and thermosetting polymers. Advantages of plastics-preparation, properties and uses of polythene, PVC, polystyrene, Teflon and PAN.

Unit -V - Fertilizer

Definition-characteristics of a good fertilizer- role of nitrogen, potassium and phosphorous in plant growth - natural fertilizers- chemical fertilizers: urea, muriatic of potash and triple superphosphate - mixed fertilizers - biofertilizers - advantages of biofertilizers.

Text Books

B. S. Chauhan, Applied Chenistry, Vayu Education India, 2013.

B. K. Sharma, Industrial Chemistry Krishna PrakashanMedia(p) Ltd., 2011

Reference Books

B.S Chauhan, Applied Chemistry, Vayu Education of India, 2013.

K. BagavathiSundari, "Applied Chemistry" MJP Publishers, 2006.

DEPARTMENT OF CHEMISTRY M.V. MUTHIAH GOVT ARTS

COLLEGE FOR WOMEN -MUDIGUL - 624 001

Page 66

SEMESTER-III

SKILL BASED SUBJECT- PAPER I

UCHS31

WATER TREATMENT

2hours/2credits

Objective

- To give an in-depth understanding of water quality parameters, ground water and surface water pollution and its control measures.
- In addition, the students will also learn the water treatment methods, sewage and industrial effluent treatment methods and water resources management.
- 3. To understand the pollutants and their effect on environment and on human health
- To know the basic information of water treatment methods for domestic and industrial purposes

UNIT-I

Uses of water – safe and wholesome water – sources of water supply: Rain: hydrological cycle, acid rain, artificial rain, rain water harvesting. Surface water; impounding reservoir, river and tanks – their characteristics and impurities. Ground water; wells and springs. Water borne diseases/substances affecting the potabillity of water.

UNIT-II

Effects of impurities in natural waters: colour taste and odour, turbidity and sediment and micro organism. Dissolved mineral matter – hardness types – estimation (EDTA method) – methods of softening – boiling, addition of lime – addition of sodium carbonate – ion exchange method.

UNIT-III

Clarification of water: sedimentation and filtration. Coagulation of water electrochemical coagulation – floculants – sterilization and disinfection of water: chemical methods and physical methods.

UNIT- IV

Demineralization of water - ion exchange process - desalination of sea water: electrodialysis method, reverse osmosis methods.

Water analysis: physical examination - chemical examination bacteriological examination -BOD, COD.

UNIT-V

Miscellaneous methods of water treatment: color, odour and taste removal – iron and manganese removal – fluoridation – deflouridation, prevention of plumb solvency – removal of slime and algae from water - de-oxygenation of water.

SEMESTER IV

SKILL BASED SUBJECT- PAPER II

UCHS42

CLINICAL CHEMISTRY

2hours/2credits

Objectives

- 1. To understand the basics of blood and composition
- 2. To impart knowledge on clinical biochemistry and laboratory practices.
- 3. To understand the normal and abnormal constituents of urine
- To gain the clinical demonstration of Blood grouping, Rh factor, Blood Glucose and Hb content

UNIT -I

Blood - composition and their role in health and disease, blood grouping, Rh factor, Blood pH.

UNIT-II

Electrolytic balance, function of plasma proteins, Albumin - Globulin ratio, clotting mechanism, blood pressure, coagulant and anticoagulant.

UNIT-III

Blood lipid, arteriosclerosis, lipid profile, blood sugar, blood glucose and its regulation, glucose tolerance test (GTT).

UNIT-IV

Urine - normal and abnormal constituents of urine, renal function test.

UNIT-V

Only demonstration

- a. Blood grouping
- b. Rh factor
- c. Blood Glucose
- d. Hb content

Text Book

I.Practical Clinical Biochemistry: Methods and Interpretations, R. Chawla, 3rd Edn., Jaypee Brothers Medical Publishers, New Delhi, 2003.

Reference Book

 Fundamentals of Practical Clinical Biochemistry, B. Mohanty and S. Basu, B. I. publishers, New Delhi, 2006.

DEPARTMENT OF CHEMISTRY
M.V. MUTHIAH GOVT ARTS
COLLEGE FOR WOMEN

DINDIGUL - 624 001

SEMESTER V

SKILL BASED SUBJECT - III

SBS3

EVERYDAY CHEMISTRY

2hours/Week

UNIT-1

Dairy chemistry milk - definition - general composition of milk - constituents of milk lipids, proteins, carbohydrates, vitamins and minerals. Physical properties of milk - colour, odour, acidity, specific gravity, viscosity and conductivity. Factors affecting the composition of milk - pasteurization, homogenization, toning, standardization, reconstitution of milk adulteration of milk.

UNIT - II

Mineral metabolism: calcium - source, daily requirement, blood calcium, hypocalcemia, phosphorus - functions of phosphate, requirement, source, normal scrum level, functions. Sodium - normal level of sodium, excretion of sodium, restriction of sodium in diet, hypematremia.

UNIT-III

Preparation of tooth powder, paste, taleum powder, shampoo, handkerchief perfumers, dry perfume sachets, soap powder, diswashing powder, various soaps, toilet cleaning liquids.

UNIT-IV

Wax products - candles, boot polish, furniture polish paste. Ink - blue, red, blue black, white board marker, printing ink, ink for stamp pad.

UNIT-V

Safety matches - agarbathics naphthalene balls - chalk crayons - insecticides such as lice killer, mosquito repellant, cockroach terminator, mot repellant. Simple medicines: pain balm, digestive tablet, disinfectant solutions

Reference Books

Small Scale Industries by B.S. Sedar, Jaime Publications, Ombay, 1975.

2. Neengalum Siru Thozhil Nadathalam (Tamil Version) S.A. Soosairaja, New Century Book House Pvt. Ltd, Chennai, 1983

> DEPARTMENT OF CHEMISTRY M.V. MUTHLAR GOVT ARTS COLLEGE FOR WOMEN DOMESTIC - 624 001

SEMESTER-VI

TEXTILE CHEMISTRY

UCHS64

SKILL BASED SUBSJECT PAPER - IV

2hours/2credits

Objective

- 1.To facilitate the students to learn about the pre-treatments of various kinds of textile materials involved in textile wet processing industries.
- 2. To acquire knowledge of natural fibres
- 3. To get basic importance of dying process
- 4. To understand the basic concept of printing methods

UNIT-I

Natural Fibre: properties of textile fibres - classification of fibres. Natural fibres of vegetables origin - chemical and physical properties of cotton, jute. Natural fibres of animal origin: chemical and physical properties of wool and silk - natural mineral fibres: chemical and physical properties of asbestos and glass.

UNIT-II

Man madefibre: mode of production - types of spinning - wet dry and melt spinning.

- a. viscose rayon: Raw material, method of conversion to fibre and filament form.
 Physical and chemical properties and uses.
- Cuprammoniumrayon and cellulose acetate: raw materials, method of conversion to fibre and filament form. Physical and chemical properties and uses.
- Synthetic organic fibre: polyamide and polyester fibre raw materials, method
 of production, physical and chemical properties fibre structure.

UNIT-III

Pre - treatment process for dyeing:

Study of operation, principles and different agent for singeing, desizing, scouring and bleaching.

UNIT-IV

Dyeing: classification of dyes - theories of dyeing

Direct dye: properties, method of application to cotton - assistants used and their functions. Sulphur dye: properties, method of application to cotton. Acid dye: properties, method of application to cotton.

Vat dye: properties, method of application to cotton.

SEMESTER -III

UCHN31

APPLIED CHEMISTRY – PAPER I NON – MAJOR ELECTIVE

2hours/2credits

Objective

- 1. To understand the preparation and properties of Rubber and Fibers
- 2. To understand the preparation and properties of Plastics and Resins.
- 3. To know the classification and importance of Fertilizers
- 4. To understand the use of chemicals in improvement of agricultural crops

UNIT-I

Rubber - natural and synthetic rubbers, composition of natural rubber, neoprene rubber, styrene butadiene rubber (SBR).

UNIT - II

Fibers - definition, natural and synthetic fibers.

UNIT-III

Resins - natural and synthetic resins - distinction between resins and plastics.

UNIT-IV

Plastics - classification, properties, Bakelite, Urea, Formaldehye, Teflon, Nylon-66, and Dacron.

UNIT-V

Fertilizers - definition, classification, urea, super phosphate, potassium nitrate, mixed fertilizer.

Text Books

- 1. Norris shreve, R. and Joseph A. Brink, J. Chemical process industries, 4th ed.; Mc Graw Hill Kogakusha, Itd: 1977.
- 2. George T. Austin. Shreve's chemical process industries, 5th ed.; Mc Graw Hill: 1984.

Reference Books

- Subba rao, N. S. Biofertilizers in agriculture; oxford and IBH publishing co.: New Delhi, 1982.
- 2. Jain, P. C. and Jain, M. Engineering chemistry, 10th ed.; Dhanpat Rai and sons: Delhi, 1993
- 3. Kamaraj, P.; Jeyalakshmi, R. and Narayanan, V. Chemistry in engineering and technology; sudhandhira publications: chennai, 2001

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COLLEGE FOR WOMEN

DINDIGUL - 624 001

SEMESTER IV

APPLIED CHEMISTRY - PAPER II

UCHN42

NON-MAJOR ELECTIVE

2hours/2credits

Objectives

- 1. The generation of energy from various types of fuels.
- 2. To gain knowledge in silicate industry, match industry
- 3. Pollution occurring from various sources and resulting toxic effects
- 4. To acquire basic knowledge in Explosives

UNIT-I

Match Industry - Raw materials - manufacturing process, pyrotechnics coloured smokes.

UNIT-II

Explosives - definition classification, Nitroglycerine, dynamite cordite, TNT and Picric acid.

UNIT - III

Silicate Industry - Cement and Glass, Raw materials and manufacture of cement and glass.

UNIT - IV

Petrochemicals - definition, origin, composition chemicals from natural gas, petroleum, light naphtha and kerosene, LPG.

UNIT-V

Photography - colour photography.

Text Books

- Norris Shreve, R. and Joseph A. Chemical process industries, 4th ed.; Mc Graw Hill Kogakusha, ltd: 1977.
- George T. Austin. Shreve's chemical process industries, 5th ed.; Mc Graw Hill: 1984.

Reference Books

- Subba Rao, N. S. Biofertilizers in agriculture; oxford and IBH publishing co.: New delhi, 1982.
- Jain, P. C. and Jain, M. Engineering chemistry, 10th ed.; Dhanpat Rai and sons: Delhi, 1993
- Kamaraj, P.; Jeyalakshmi, R. and Narayanan, V. Chemistry in engineering and technology;
 Sudhandhira publications: chennai, 2001.
- Kuriakose, J. C. and Rajaram, J. Chemistry in engineering and technology. Vol 2.; Tata McGraw Hill: New Delhi, 1988.
- 5. De, A.K. Environmental chemistry 2nd ed.; Wiley Eastern Ltd., 1987.

DEPARTMENT OF CHEMISTRY
M.V. MUTHIAH GOVT ARTS
COLLEGE FOR WOMEN

SEMESTER V

SKILL BASED SUBJECT - III

UCH853

EVERYDAY CHEMISTRY

2hours/2credits

Objectives

- To understand the basic knowledge in Food Chemistry and modern trends in the industry.
- To create awareness among the undergraduate students about the role of chemistry in day- to- day life
- 3. To know more about the cosmetics and other chemicals that they uses
- To obtain adequate knowledge and scientific information regarding basic principles of everyday chemistry.

UNIT-1

Dairy chemistry milk – definition – general composition of milk – constituents of milk lipids, proteins, carbohydrates, vitamins and minerals. Physical properties of milk – colour, odour, acidity, specific gravity, viscosity and conductivity. Factors affecting the composition of milk – pasteurization, homogenization, toning, standardization, reconstitution of milk – adulteration of milk.

UNIT-II

Mineral metabolism: calcium - source, daily requirement, blood calcium, hypocalcemia, phosphorus - functions of phosphate, requirement, source, normal serum level, functions. Sodium - normal level of sodium, excretion of sodium, restriction of sodium in diet, hypernatremia.

UNIT-III

Preparation of tooth powder, paste, talcum powder, shampoo, handkerchief perfumers, dry perfume sachets, soap powder, diswashing powder, various soaps, toilet cleaning liquids.

UNIT-IV

Wax products – candles, boot polish, furniture polish paste.

Ink – blue, red, blue black, white board marker, printing ink, ink for stamp pad.

SEMESTER-VI

TEXTILE CHEMISTRY

SBS4/SBETC

SKILL BASED SUBSJECT PAPER - IV

2hours/ Week

UNIT-1

Natural Fibre: properties of textile fibres - classification of fibres. Natural fibres of vegetables origin - chemical and physical properties of cotton, jute. Natural fibres of animal origin: chemical and physical properties of wool and silk - natural mineral fibres: chemical and physical properties of asbestos and glass.

UNIT-II

Man madefibre: mode of production - types of spinning - wet dry and melt spinning.

- a, viscose rayon: Raw material, method of conversion to fibre and filament form, Physical and chemical properties and uses.
- b. Cuprammoniumrayon and cellulose acetate: raw materials, method of conversion to fibre and filament form. Physical and chemical properties and uses.
- c. Synthetic organic fibre: polyamide and polyester fibre raw materials, method of production, physical and chemical properties fibre structure.

UNIT-III

Pre - treatment process for dyeing:

Study of operation, principles and different agent for singeing, desizing, scouring and bleaching.

UNIT-IV

Dyeing: classification of dyes - theories of dyeing

Direct dye: properties, method of application to cotton - assistants used and their functions. Sulphur dye: properties, method of application to cotton. Acid dye: properties, method of application to cotton.

Vat dye: properties, method of application to cutton.

UNIT - V

Printing: different methods of printing like hand block printing, stencil printing, wax printing, screen printing, roller printing etc.

Reference Book

- Textile Science, E.P.G Gohl and D. Vilensky
- 2. Textile Scouring and bleaching, E.R. Trotman
- 3. Technology of Dying, Dr. V.A. Shenai
- 4. Textile Fiber for dyeing, Bernard P. Carbman

DEPARTMENT OF CHEMISTRY M.V. MUTHIAH GOVT ARTS COLLEGE FOR WOMEN

DINDIGUL - 624 001

SEMESTER IV

APPLIED CHEMISTRY - PAPER II

UCHN42

NON-MAJOR ELECTIVE

2hours/2credits

Objectives

- 1. The generation of energy from various types of fuels.
- 2. To gain knowledge in silicate industry, match industry
- 3. Pollution occurring from various sources and resulting toxic effects
- 4. To acquire basic knowledge in Explosives

UNIT-I

Match Industry - Raw materials - manufacturing process, pyrotechnics coloured smokes.

UNIT-II

Explosives - definition classification, Nitroglycerine, dynamite cordite, TNT and Picric acid.

UNIT - III

Silicate Industry - Cement and Glass, Raw materials and manufacture of cement and glass.

UNIT - IV

Petrochemicals - definition, origin, composition chemicals from natural gas, petroleum, light naphtha and kerosene, LPG.

UNIT - V

Photography - colour photography.

Text Books

- Norris Shreve, R. and Joseph A. Chemical process industries, 4th ed.; Mc Graw Hill Kogakusha, ltd: 1977.
- George T. Austin. Shreve's chemical process industries, 5th ed.; Mc Graw Hill: 1984.

Reference Books

- Subba Rao, N. S. Biofertilizers in agriculture; oxford and IBH publishing co.: New delhi, 1982.
- Jain, P. C. and Jain, M. Engineering chemistry, 10th ed.; Dhanpat Rai and sons: Delhi, 1993
- Kamaraj, P.; Jeyalakshmi, R. and Narayanan, V. Chemistry in engineering and technology;
 Sudhandhira publications: chennai, 2001.
- Kuriakose, J. C. and Rajaram, J. Chemistry in engineering and technology. Vol 2.; Tata McGraw Hill: New Delhi, 1988.
- 5. De, A.K. Environmental chemistry 2nd ed.; Wiley Eastern Ltd., 1987.

DEPARTMENT OF CHEMISTRY
M.V. MUTHIAH GOVT ARTS
COLLEGE FOR WOMEN

SEMESTER IV

APPLIED CHEMISTRY - PAPER II

NME2

NON-MAJOR ELECTIVE

2hours/week

UNIT-I

Match Industry - Raw materials - manufacturing process, pyrotechnics coloured smokes.

UNIT-II

Explosives - definition classification, Nitroglycerine, dynamite cordite, TNT and Picric acid.

UNIT - III

Silicate Industry - Cement and Glass, Raw materials and manufacture of cement and glass.

UNIT - IV

Petrochemicals - definition, origin, composition chemicals from natural gas, petroleum, light naphtha and kerosene, LPG.

UNIT-V

Photography - colour photography.

Reference

Inorganic Chemistry by P.L.Soni

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DEPARTMENT OF CHEMISTRY M.Y. MUTHLAH GOVT ARTS COLLEGE FOR WOMEN

DINDIGUL - 624 001

SEMESTER-III

SKILL BASED SUBJECT- PAPER I

SBS1

WATER TREATMENT

2hours/week

UNIT-I

Uses of water – safe and wholesome water – sources of water supply: Rain: hydrological cycle, acid rain, artificial rain, rain water harvesting. Surface water: impounding reservoir, river and tanks – their characteristics and impurities. Ground water; wells and springs. Water borne diseases/substances affecting the potability of water.

UNIT-II

Effects of impurities in natural waters: colour taste and odour, turbidity and sediment and micro organism. Dissolved mineral matter – hardness types – estimation (EDTA method) – methods of softening – boiling, addition of lime addition of sodium carbonate – ion exchange method.

UNIT-III

Clarification of water; sedimentation and filtration. Coagulation of water electrochemical coagulation – flocculants – sterilization and disinfection of water; chemical methods and physical methods.

UNIT- IV

Demineralization of water - ion exchange process - desalination of sea water: electrodialysis method, reverse osmosis methods.

Water analysis: physical examination - chemical examination bacteriological examination - BOD, COD.

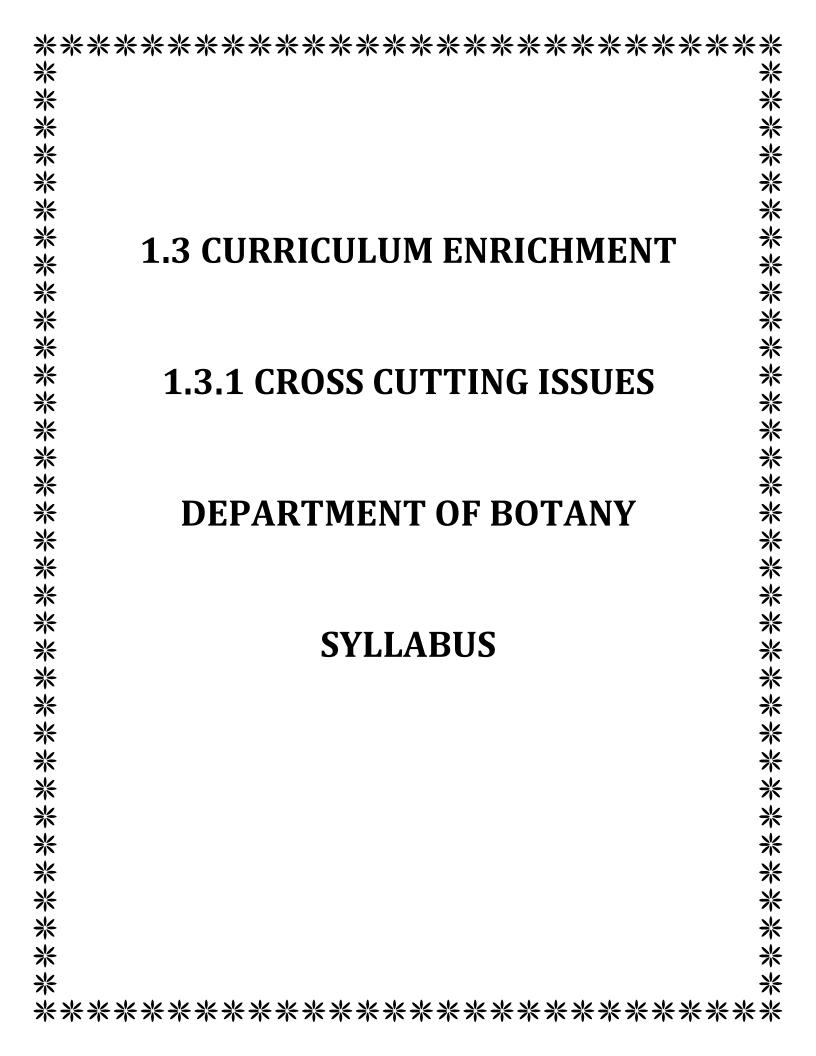
UNIT - V

Miscellaneous methods of water treatment: color, odour and taste removal iron and manganese removal — fluoridation — deflouridation, prevention of plumb solvency — removal of slime and algae from water - dc- oxygenation of water.

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DEPARTMENT OF CHEMISTRY M.V. MUTHIAH GOVT ARTS COLLEGE FOR WOMEN

DINDIGUL - 624 001



SKILL BASED STUDIES- I- MUSHROOM TECHNOLOGY- UBOS31 Credits:2 Hours:2

Objectives

- Have knowledge on general identification characteristics of musbroom
- Understand the types of edible mushroom
- Have idea on growing conditions of mushroom
- Exhibit an idea on harvesting methods.

UNIT I

Introduction - history - scope of edible mushroom cultivation - Types of edible mushrooms available in India - Volvariella volvacea, Pleurotus citrinopileatus, Agaricus bisporus.

Unit II

Pure culture - preparation of medium (PDA and Oatmeal agar medium) sterilization - preparation of test tube slants to store mother culture - culturing of Pleurotus mycelium on petripiates, preparation of mother spawn in saline bottle and polypropylene bag and their multiplication.

UNIT III

Cultivation Technology: Infrastructure: substrates (locally available) Polythene bag, vessels, Inoculation hook, inoculation loop, low cost stove, sieves, culture rack, mushroom unit (Thatched house) water sprayer, tray, small polythene bag, Mushroom bed preparation - paddy straw, sugarcane trash, maize straw, banana leaves. Factors affecting the mushroom bed preparation - Low cost technology, Composting technology in mushroom production.

UNITIV

Storage and nutrition: Short-term storage (Refrigeration - upto 24 hours) Long term Storage (canning, pickels, papads), drying, storage in salt solutions. Nutrition - Proteins - amino acids, mineral elements nutrition - Carbohydrates, Crude fibre content - Vitamins.

UNIT V

Food Preparation

1. Types of foods prepared from mushroom; Soup, Cutlet, Omelette, Samosa, Pickles, Curry.

Muchurian and salads.

Research Centres - National level and Regional level.

J.P.NIKKITHA M.Sc., M.Phil., M.Ed., Ph.D.
Assistant Professor / Plead of the Department
Department of Potany
Department of Potany
W.Y. Muthaiah Government her: College For Women

SEMESTER: VI

SKILL BASED ELECTIVE IV

BIOFERTILISER

UNITI

Introduction of bio fertilizer, Rhizobium. Inoculants - Isolation, identification, classification, Rhizobium in soil and root nodules.

UNIT II

Azobacter inoculants - Isolation, identification, classification, Azobacterin soil, physiology and function, maintenance and cultivation, crop response, application and importance,

UNIT III

Azospirillum inoculants - isolation, identification, classification, azospirillum in soil and root, physiology and functions, carrier based inoculants, maintenance and cultivation, crop response, application, N2, fixing bacteria on sugarcane and cereals.

UNIT IV

Blue green algal inoculants - Isolation preparation and multiplication BGA in rice yield. Azollamass cultivation and uses, green manure - uses - work done on bio fertilizers in india.

UNIT V

VERMICOMPOSING

Introduction- Bins - small scale - large scale - starting off - bedding, temperature - food suitable - unsuitable - bin maintenance, feeding - harvesting, vermicomposting properties problems, commercially available vermicomposting systems - vermicomposting for small farms - vermicompost and plants.

REFERENCES:

- Text book of biotechnology R.C.dubey .
- Bio fertilizers in agriculture and forestry N.S. SunnaRao.

J.P. NIKKITHA N.Sc., M. Phil., M.Ed., PhD. HEAD OF THE DEPARTMENT DEPARTMENT OF SOTANY

SEMESTER: V

SKILL BASED ELECTIVE - III

FOOD PROCESSING AND PRESERVATION

UNIT I

Introduction of food processing.

UNIT II

Processing and preservation methods

Curing - Drying - Canning and Bottling - Additives - Freezing and Refrigeration

UNIT III

Controlled atmosphere storage - Aseptic packaging - Fermentations - Pasteurization - Vaccum Packing - Jellying - Salting

UNITIV

Food packaging - Food distribution - Government monitoring and regulation - HACCP.

UNIT V

Botulism - major diseases in canned foods - controlled use of microorganisms.

REFERENCES

- Riddervold, Astri.Food conservation.
- Bentley, Amy ,Eating for victory. Food rationing and the polices of domesticity.
- Shephard ,Sue, Pickled ,Potted and canned: How the art and science of food preserving changed the world.

J.P.NIKKITHA W.So., E.Phil., B.Ed., PhD.
HEAD OF THE DEPARTMENT
DEPARTMENT OF BOTANY

ELECTIVE IV- BIODIVERSITY AND CONSERVATION - UBOE64

Credits: 3
Objectives

Hours:3

- · To know the basics concepts of Biodiversity and its conservation.
- To understand the principle and approaches of conservation.
- Learn about the Insitu and Exsitu conservation methods.
- Acquire knowledge on Environment assessment and monitoring.

Unit 1

Biodiversity and Conservation: Catergories of biodiversity – species concepts: keystone, flagship, dominant and co-dominant species – Biogeography: Major terrestrial biomes – theory of island biogeography – Biogeographical zones of India – Principles and approaches of conservation – Insitu conservation: National parks, Wildlife Sanctuaries, Biosphere reserves – Ex-situ conservation: Botanical and herbal gardens, zoological parks, seed orchards and gene banks.

Unit II

Values of biodiversity-ecosystem services- screening plants for medicines- New agricultural and industrial products from the tropics- identifying and protecting the origin of food crops. Speciation- species area relationship: productivity- diversity relationship - Biodiversity hot spot.

Unit III

The effect of global climatic change on natural communities- IUCN categories of extinction- red data book - causes for species extinction - impact of exotic species on native species - GMOs and biosafety - Intellectual property rights- GATT, WTO, farmers and breeders rights-Bodiversity act -2002.

Unit IV

Remote sensing: Introduction-Analysis techniques-Digital image processing Role of remote sensing in biodiversity management-GIS and biodiversity, landscape elements Oceans colour and fishery, water security. Environment assessment and monitoring.

Unit V

Conservation: In situ and Ex situ conservation methods- conservation of biological diversity in Botaniocal gardens- Information management for the conservation of biodiversity. Cryobiology-

Assistant Professor / Head of the Department

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J.P.NIKKITHA M.SE.M.PHIL. M.E.

HEAD OF THE DEPARTMEN

DEPARTMENT OF BOTANY

SEMESTER: III

SKILL BASED ELECTIVE I

PLANT PROPAGATION AND NURSERY MANAGEMENT

UNIT 1

Propagation - Basic concept - types of plant propagation along with merits and demerits.

Seed treatment - seed germination and seed dormancy - Apomixes

UNIT 2

Common origin method - Cutting - root cutting, stem cutting, leaf cutting

Layering - simple layering, air layering, mound layering

Specialized structures - bulbs, tubers, rhizomes

UNIT 3

Separate origin method - Budding - shield budding, patch budding, ring budding

Grafting - simple grafting, tongue grafting, veneer grafting

Stock-scion relationship

Factors affecting budding and grafting

UNIT-4

Definition - importance - scope and types - Site selection, components and layout of nursery

UNIT 5

Media containers and propagation structures - After care in nursery - Nursery Act

REFERENCES

- Hartman, H.T. and D.E.Kester, 1989 Plant propagation principles and practices. Prenice 'Hall of India. New Delhi
- Bose, T.K., B.S.Mitra and M.K.Sadhu, 1986 propagation of tropical and sub tropical crops.

J.P.NIKKITHA M.Sc.,M.Phil.,M.Ed.,Phil. HEAD OF THE DEPARTMENT DEPARTMENT OF BOTANY

NON- MAJOR ELECTIVE PAPER- I

MUSHROOM CULTURE

INITI

ntroduction to Mushroom Cultivation - Internal & External Structure of Mushroom Types of dible & Non - Edible Mushrooms Systematic Position - Identification of Poisonous dushrooms.

UNIT II

fechniques Of Mushroom Cultivation - Compost, Composting Casing Materials, Spawn Production, Nutritional Requirements, And Maintenance Of Mushrooms Sheds - Storage, Preservation Marketing, And Commercial Significance Of Mushrooms.

INIT III

Working procedure for cultivation of Button mushroom (Agaricus bisporous) and Paddy straw nushroom (Volveriella volvaceae)

INIT IV

Risks involved in mushroom cultivation - common pathogens affecting mushrroms (bacterial, ungal, insects and nematodes) health issues of consumers due to contaminants of edible nushrooms.

UNIT V

Nutritive value and uses of mushroom, processing of mushroom few recepies - Omelette, Soup, Pakodas, Pickle, Mushroom Biryani.

REFERENCES:

- Bahl.N., 2009, hand book on mushrooms, 4th edition, Oxford and IBH publishing .co.pvt., Ltd., New Delhi.
- Fletcher . J.T., white P.F., &Gaze.R.H., Pest and Disease control, intercept limited pontelad, new castle, England.
- Kappor J.N ., 1989 , Mushrooms Cultivation, ICAR Publication , Krishi Anusandhan, Pusa, New Delhi.

J.P.NIKKITHA M.Sc., M.Phil., M.Ed., PhD. HEAD OF THE DEPARTMENT DEPARTMENT OF BOTANY

SKILL BASED ELECTIVE II

MUSHROOM CULTIVATION

UNIT I

Introduction - growing mushroom - mushroom on farm and in the garden.

UNIT 2

Morphology of mushroom- Internal & External Structure of Mushroom Types of Edible & Non -

UNIT 3

Techniques Of Mushroom Cultivation - white button, paddy straw and oyster mushroom-Compost, Composting Casing Materials, Spawn Production, Nutritional Requirements of ediblemoshroom.

UNIT 4

Types - poisonous and non poisonous.

Pest and Disease management of edible mushrooms with reference to Green mold disease.

UNIT 5

Maintenance Of Mushrooms Sheds - Storage, Preservation - Marketing and Commercial Significance Of Mushrooms.

REFERENCES

- 1 Anon. 1998. Grower's business is mushrooming. Small Farm Digest. Winter.P.3.
- 2 Anon. 2003. Small Farms Research News.Spring.P.3.
- 3 Cooner, Deanna. 2001. Mushroom farming. Agventures. June-July p. 14-15
- 4 Edwards, Richard. 2000. The missing link? Mushrooms in permaculture.

Permaculture Magazine.No.25. p. 37-39.

5 Ludmer – Gliebe, Susan. 1997. Sheep are essential to French truffle production.

November . p. 4-5.

J.P.NIKKITHA M.Sc.,M.Phil.,M.Ed.,Phil. HEAD OF THE DEPARTMENT DEPARTMENT OF BOTANY

SEMESTER: IV



NON- MAJOR ELECTIVE PAPER- II

HORTICULTURE

INIT I

ntroduction- Divisions of horticulture- Pomology- Olericulture- Floriculture- Importance of orticulture.

INIT II

Vegetative propagation: cuttage - root cutting, stem cutting, leaf cutting layerage - imple, compound layering, trench and air layering. Graftage: side grafting, whip grafting, cleft grafting. Advantages of vegetative propagation.

ENIT III

Establishment of orchard, layout of orchards - Planting, harvesting, marketing and torage of fruits and preservation of fruits.

INITIV

Type of vegetable growing: kitchen garden – market gardening, truck garden, vegetable eed industry. Preservation of vegetables.

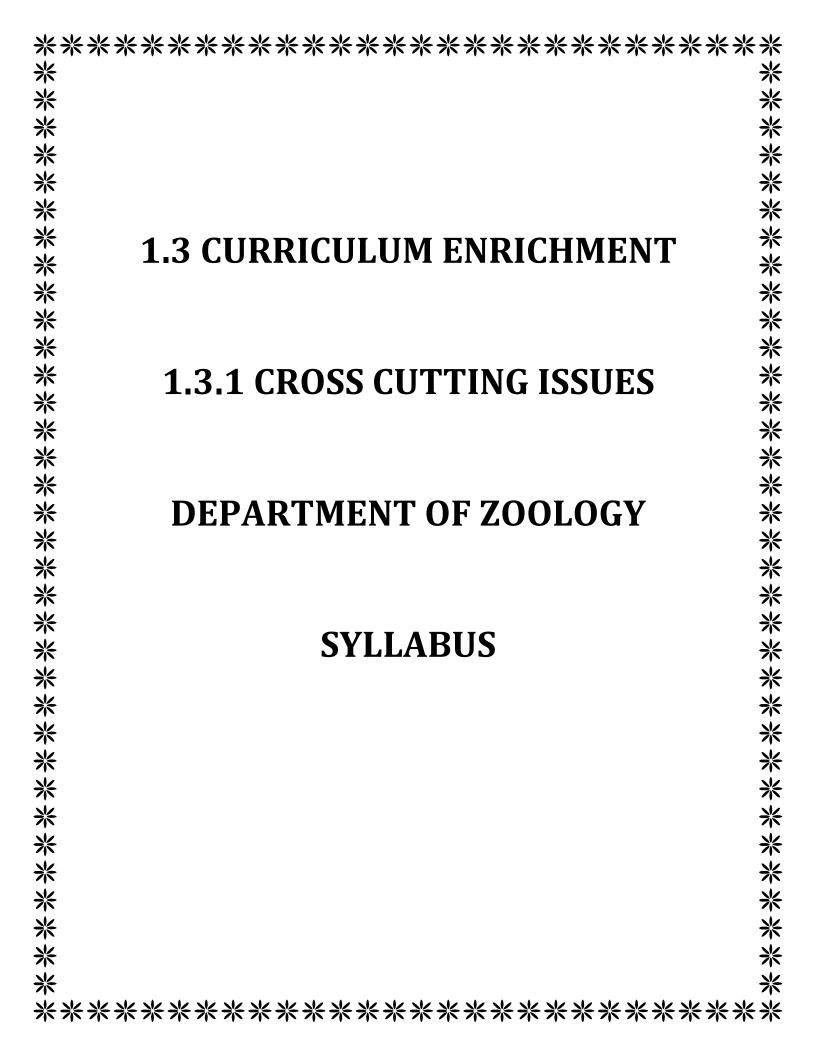
INIT Y

Indoor gardening: Types of indoor gardening. Indoor plants, hanging baskets, Bonsai-Bottle garden. Flower arrangement and Dry decoration.

REFERENCES:

- Adams C.R., Early M.P.2004. Principles of horticulture. Elsevier, N.Delhi.
- Edmond J.B., Senn T.L., Andrews F.S., Halfacre P.G. 1975. Fundamentals of horticulture, 4thedition.TMHN.Delhi.
- John weathers, 1993, encyclopedia of Horticulture. Discovery Pub. House. New delhi.
- Kumar N., 1994. Introduction to horticulture. Rajalakmi Pub.
- Manibhushanrao k. 2005. Text book of horticulture. Macmillan India Ltd.
- Randhawa G.S., Mukhopadhyay A. 1986. Floriculture in india. Allied pub pvt ltd.Ahamedabad.

J.P.NIKKITHA M.Sc., M.PHIL, M.Ed., Ph.D. HEAD OF THE DEPARTMENT DEPARTMENT OF BOTANY



ELECTIVE II (THEORY) Sub code : UZOEH2

Option 1: MEDICAL LABORATORY TECHNOLOGY

3 hrs/3 credits

Objectives

17/0E42

- · To learn the proper procedure for the collection, safe handling and analysis of biological
- . To discuss about the medical diagnostics methods used for analysis of Blood.
- To know the urine test, blood test and important human diseases.
- By this paper student can enlighten the skills of basic medical techniques.

DITI Enduction to Medical Diagnostics and its Importance Diagnostics Methods Used for Analysis (Biod-Blood composition, Preparation of blood smear and Differential Leucocyte Count ALC) using Leishman's stain, Platelet count using haemocytometer, Erythrocyte Sedimentary EERR), Packed Cell Volume (P.C.V.)

HIL analysis - Physical characteristics; Abnormal constituents, Detection of sugar, albumin, beits and pregnancy test, (b) Blood analysis – Blood grouping, Haemoglobin estimation, Cell AT

到田 Causes, types, symptoms, complications, diagnosis and prevention of Bacterial primary complex Helminthes diseases - round worm. Diabetes (Type I and Type II), Original (Primary and secondary), diagnosis and prevention of Tuberculosis and Hepatitis Secution schedule in India

Fire Heart attack (b) Electric shock (c) Fire accident d) Burns (e) Snake bite and dog bite EP Bearing bleeding and shocking (h) Road accident.

Types Benign/Malignant, Detection and metastasis; Medical imaging: X-Ray of Bone MINCE

Change Change Lab Techniques, Root & I. Samuel. M. K. G. Tyyer & Sons Publ. Co,

(1992) Cal Laboratory Technology Vol. 1,2& 3, Mukherjee. Tata McGraw Hill publ. Co,

ical Laboratory Science. Theory and practice, Ochei, Tata McGraw Hill publ. Co,



ological Clocks

devance of biological clocks; Chronopharmacology, Chronomedicine, Chronotherapy.

EFERENCE

Onid McFarland, Animal Behaviour, Pitman Publishing Limited, London, UK.

Manning, A. and Dawkins, M. S, An Introduction to Animal Behaviour, Cambridge, itsessity Press, UK.

hin Alcock, Animal Behaviour, Sinauer Associate Inc., USA.

bil W. Sherman and John Alcock, Exploring Animal Behaviour, Sinauer Associate Inc.,

Unnobiology Biological Timekeeping: Jay. C. Dunlap, Jennifer. J. Loros, Patricia J. Eursey (ed). 2004, Sinauer Associates, Inc. Publishers, Sunderland, MA, USA

Asset Clocks D.S. Saunders, C.G.H. Steel, X., Afopoulou (ed.)R.D. Lewis. (3rdEd) 2002 assand Noble Inc. New York, USA

Mogical Rhythms: Vinod Kumar (2002) Narosa Publishing House, Delhi/ Springer-Verlag,

NON MAJOR ELECTIVE II (THEORY) - APICULTURE

2 hrs/2 credits

UZON42: Sub code

nake clear to the students about the honey bees, its life style and social behaviour.

hean apiculture, and recognize the list of honey bees

Invide the knowledge of economic importance of bee products

will be able to understand biological features of honey bee and economic

Potence thereby they can get self employment.

dice to Apiculture - Scope of Apiculture. Honey bee - Classification, types of honey by dorsata, Apis florae, Apis indica and Dammer bee

function of members - Different kinds of cells, Bee hive and its architechture,

social life in Indian honey bee. Morphology of Queen, Drones and Workers.

methods of bee keeping in India - Primitive hives - wall type, movable type, Modern hives - longstroth ten frame hive, Newton's hive. Appliances use in bee

Su Opaga Tinth ten



Economic importance of bee products - chemical composition, Nutritive value and medicinal ises of honey, bee wax, bee venom and disease of honey bees.

REFERENCE

- J. Applied Zoology Dr. N. Arumugam, Dr. S. Murugan, Dr. J. Johnson Rajeshwar and Dr. R.
- 1 A text book of Economic Zoology Ravindranathan K. R. Dominent Publishers and
- Entomology M. S. Nalina sundari M. J. P Publications, Chennai, 2006.
- Hand book of Bee Keeping, Sharma P.L & Singh S. Agrobius Publ, India, 2001.
- i A text book of Economic Zoology. Ravindranathan K. R. Dominent Publishing &

SKILL BASED STUDIES II - VERMICULTURE

170842

Sub code: UZOS42

2 hrs/2 credits

Diectives

- To learn the skill to produce vermicompost
- Student can obtain the skills for the production of organic manure for sustainable

http://www.Taxonomic position and diversity; types - Epigeic species, Endogeic species and

DELL

inclure-definition, scope and importance, common species for culture, Environmental Parametris; culture methods-wormery-breeding techniques; Indore and outdoor cultures.

Verticus of vermiculture-Vermiculture Biotechnology-vermicomposting, use of asings in organic farming/horticulture-vermiwash.

tims for management of municipal/selected biomedical solid wastes, as feed/bait for culture fisheries; forest regeneration.

espectives-Potentials and constraint for vermiculture in India.

NCE BOOK



- 1. Biophysics Principles And Techniques M.A. Subramanian, Mjp
- Aspects Of Biophysics William Hughes, John Willy And Sons, N.Y., 1979.
- Biophysical Science L.E. Ackermann, L.B.E. Ellis And Williams, 1979. 4. Biophysics - Concepts And Mechanisms-E.J. Casey, Von Nostrand Reinhold

NON MAJOR ELECTIVE-I (THEORY) - SERICULTURE

E0N31

Subcode: Uzo N31

2hrs/2credits

Diectives:

- To enlighten the students about sericulture a profitable culture practice.
- To enhance the skills, competitiveness and employability of the students
- To gain the knowledge of silk production, disease management, quality of silk and marketability.
- Non major elective student can become entrepreneur.

induction to sericulture, moriculture, classification of Mulbery, Methods of cultivation.

May and diseases of Silkworms

libyrle, External morphology and biology of mulberry silkworm.

tend norphology of Silkworm - Digestive, Respiratory,

lenus, Excretory, and Reproductive systems.

bases of Bombyx mori -Viral, bacterial protozoan and fungal

beative and control measures. Insect and vertebrate

of silkworm and their management.

MI III

bilkworm eggs. Structure - Commercial and reproductive, Seeds, Voltinism, Hiber nating was hiber nating eggs.

Rearing house and appliances, Rearing processes. Chawkiworm rearing - optimum ** optimum Environmental conditions, care during rearing and cleaning. Selection of hetm, spinning, mounting, Harvesting, storage and transport.

Stiffling, reeling appliances - types of croissures, Country charks, cottage basin, truis, Applications of silk.

PRENCE



- Applied Zoology- Dr.N. Arumugam, T.Murugan, J.Johnson Rajeshwar, R. Ram Prabhu, Saras Publication, 2010.
- 2. G. Ganga & J. Sulochana Chetty, 1997. An introduction to sericulture (Oxford & IBH
- 3. Hand Book of Practical Sericulture by Ullal and Narsimhanna. CSB. Bangalore

SKILL BASED ELECTIVE-I ECONOMIC ZOOLOGY

W20831

Sub code: Uzosa,

2hrs/2 credits

Objectives:

- To gain the knowledge in the field of animal culture and its product marketing.
- To learn the process of honey bee culture, honey production and pearl culture.
- To gain the knowledge of poultry science, edible fishes and milk pasteurization. Student can get self employment programme,

herBee-Types of honey bee-Culture techniques- Diseases of honeybee.

hybridistry-Any three indigenous and exotic breeds Diseases of poultry- Any three poultry

Shipstry-Types of Pearls-Pearl formation-Culture of pearls-Pearl producing sites in India.

The Listy-Common Edible fishes-Economic Importance of fishes.

bete-Different Breeds- milk and milk products - Pasteurization.

Apried Zoology by Dr. N. Arumugam, T. Murugan, I, Johnson Rajeshwari, R. Ram Pasta, Saras Publication, 2010. Saras Publication, 2010.

Consul Zoology by Jawaid Ashan, Subhas Prasad Sinha (1995), S.Chand &

REFERENCES

tective

1. Principles of Cancer Biology, le First Edition (English, Paperback, Lewis J.

2. The Biological Basis Of Cancer Second edition Edition (English, Soft Cover, Robert G. McKinnell Ralph E. Parchment Alan O. Perantoni).

3. Introduction to Cancer Biology (English, Paperback, Hesketh Dr Robin Hesketh). of Cancer, 2nd Weinberg (Author), Robert A Weinberg (Author) Edition 2nd Edition by Robert A.

SKILL BASED STUDIES III - ORNAMENTAL FISH CULTURE-2hrs/2credits

Subtode: Uzos53

To know about the design, construction and maintenance of home aquaria.

 To study the taxonomy of fishes, identification of freshwater and marine aquarium fishes witable for home aquarium.

To understand the nutritional requirement of fishes Student can able to become entrepreneur

rection of home aquarium: materials used wooden and metal frames, frameless tanks. and gums. Design and Construction of aquarium tank.

and biology of popular ornamental fishes: Live-bearers (Ovo-viviparous)-red platy, guppy and molly. Egg layers (oviparous)-gold fish, Siamese fighting fish, ungel fish, Oscar, Koi corp, Neon tetra, discus and red tail shark.

requirements of Ornamental fishes- different kinds of feeds-larval feeds and feeding

the aquarium, maintenance of water quality (temperature, heating, waterchange, CyCo2, pH, water hardness) - Control of snail and algal growth.

0564

SKILL BASED STUDIES IV POULTRY SCIENCE 2hrs/2credits

Sub code: UZDS64

ectives

- To study the poultry nutrition and physiology
- To learn the nutritive value of egg
- To understand the poultry health and management
- Student can able to do the poultry culture thereby they can become entrepreneur

by Nutrition and Physiology

antial amino acids, proteins, fatty acids, vitamins and minerals their inter-relationships.

foral regulation of digestion, absorption and metabolism of nutrients.

formulation for different species and groups

hant systems of feeding wet mash, dry mash, crumble and pellet feeding.

Passage rate in G.I. tract in relation to digestion and absorption efficiency;

acteristics features of endocrine glands.

kins control and variable factors influencing growth process

Products technology

the chemical composition and nutritive value of egg.

measures of egg quality. Shell, albumen and yolk quality assessment.

influencing egg quality traits.

him of deterioration of egg quality.

bat nethods of preservation of table eggs and their relative merits and demerits.

(demicals, microbial and organoleptic evaluation of meat quality

h Health Management

diseases of poultry - bacterial, viral, fungal, protozoan, parasitic and other emerging of poultry, their prevention control and treatment.

ode and nutrient deficiency diseases and disorders.

had programmes and Deworming programmes.

of coccidiosis, worms, ectoparasites and flies. Medication procedures.

Sand disinfection of poultry houses. Drinking water sanitation

DENCE

bok of Poultry Science - P.V. Sreenivasaiah

Science and practice- A text book by Nilotpal Ghosh See and practice- A text poor of the poultry science- Benjamin Mac clare

Paciences Breeding, Rearing and Management of animals by Carlos Hassey

Code	P21CSS11	COMPUTER SKILLS FOR WEB DESIGNING	LTPC
COU	RTIVE RSE-I	AND VIDEO EDITING	4 2
Cognitive Level		2: Understand K3: Apply	
Learning objective	To c To g To k To k To k	ain knowledge on effective web page creation using HTI reate a table within a web ain knowledge on inserting heading levels within a web earn how to insert ordered and unordered lists within a w ublish a web page earn how to combine basic design principles in video edi generate a video by applying her knowledge wesent the edited video ecord short clips by using camera	page eb page
	124	(A(A) F 15 = A - 2 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4	12 hours
Application	Windows Ope as of Internet,	Hardware and Software rating System - Windows Utilities. Internet: Concept Connecting to the Internet, Troubleshooting - World Engines: Accessing Web Browser, Downloading Web Points and Property and P	ages, Printing
Application Web Brows Web Pages	Windows Opens of Internet, sers – Search F – Understandi	Connecting to the Internet, Troubleshooting – World Engines: Accessing Web Browser, Downloading Web Browser, Downloading Web Browser Governance Webs Using URL – Surfing the Web: Using e-Governance Webs Markup Language (HTML)	ages, Printing ites. 12 hours ors of Lists
Application Web Brows Web Pages Unit II Structure of Headers an	Windows Opens of Internet, sers – Search E – Understandi Hyper Tex of HTML Scr nd Footers. Fo	rating System - Windows Utilities. Internet: Concept Connecting to the Internet, Troubleshooting - World ingines: Accessing Web Browser, Downloading Web Paing URL - Surfing the Web: Using e-Governance Webs t Markup Language (HTML) ipt - Components: Text, Table, Image, Hyperlinks, Ty rms in HTML: Label - Text Field - Radio Group -	12 hours pes of Lists Text Area
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Course	P21ZOS22	FIRST SWITTERSON		TP	c					
Code	1,500,000	MEDICAL LABORATORY TECHNOLOGY	5	I F	-					
SUPPORTIVE	COURSE- II	WARRIED A LOS EL CURCUMER DE SERVICIONES	2		2					
Cognitive Level	K1:Recall	K2:Understand K3:Apply								
Learning objective	analysis	the proper procedure for the collection, safe handli of biological specimens.								
	Blood.									
	1000	To know the urine test, blood test and important human diseases.								
	To enlig	To enlighten the skills of basic medical techniques.								
Unit I	To moul	d in clinical testing procedures to fetch job opport to Medical Diagnostics and its Importance	1	hou	ırs					
smear and Diff naemocytomet Unit II	erential Leuco er, Erythrocyte Urine analy	or Analysis of Blood- Blood composition, Prepara cyte Count (D.L.C) using Leishman's stain, Platele Sedimentary Rate (E.S.R), Packed Cell Volume (I sis normal constituents, Detection of sugar, albumin, alysis – Blood grouping, Haemoglobin estimation	P.C.	V.) hou posit	irs s and					
pregnancy test	, (b) Blood an	gives - Blood grouping, Themogroup								
DCALC		Fig. 9 (September 1994) De la Fill								
Unit III	Diseases	hald malarial favor dengue, SARS, Helmin	the	hou	urs eases					
Unit III Causes and d Glucose Tolers of bilirubin a	Diseases iagnosis of- t	yphoid, malarial fever, dengue, SARS, Helmin -Liver Function Tests and Serum Amylase Estim SGOT, SGPT, Bilirubin tests, Alkaline phos	the	6 house s dis on In- tase	ease: creas test:					
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Dr. P. S. A. T. A. BABA, A. R. Sc., id. Phil., Ph.D.,

Page 33

P.G. Department of Zoology

Code NME	<u>i</u>	CONSE	RVATION B	HOLOGY	L	T	P	C
Cognitive Level	K1:Recall		:Understand	К3:Арр	4	:	-	4
Learning objective	- To ident	ify the wave	dge of curren gnificance of b to conserve th about the con	t status of bio	odiversity		its	

(Ecosystem, Genetic and Species diversity — Assigning values to hiodiversity — Species concepts — Animal diversity: (Distribution inventory, species richness) — Biodiversity Hotspots (Western Ghats, Indo-Burma region). Biogeography of India — patterns and distribution of ecosystems, ecological succession, biotic and abiotic factors of an ecosystem. Conservation ethics and values of wildlife.

Unit II Extinctions

12hours

Past rates of Extinctions - Concepts of Island biogeography and extinction rates on Islands - Human induced, Modern and local extinctions - Population reduction-threats to wildlife (examples) - Habitat loss, degradation and fragmentation. Threats to animal diversity in India - Status of species: Rare, endemic and threatened species - Measuring status of species in the wild - IUCN Red list (Assessments and methodologies) - Status of Indian animals.

Unit III In situ conservation of Indian animals

12hour

(Case studies). Ex situ: Captive breeding programme – people participation in conservation – Successes and failures of conservation actions in India (Case study) – Tools in Conservation: GIS – remote sensing – Landscape model – PVA – VORTEX. Red listing process: categories and criteria, SIS. Wildlife conservation in India importance of conservation – methods of wildlife conservation

Unit IV Economics of biodiversity conservation

12hours

Wildlife (Protection) Act of India (1972) – Protected Area network – forest policy – Prevention of cruelty to Animal Act – Convention on Biological diversity, International Trade in endangered species – Zoo policy- Laws and their applications in Zoological parks, wildlife sanctuaries and biosphere reserves – Economics of biodiversity conservation. The world Conservation Union (IUCN) – World wildlife fund (WWF) – Indian Board for Wildlife (IBWL).

Unit V Wildlife / Animal magazines

12hours

Journals- How to write popular and Scientific articles – Magazine and Journal information – Wildlife, nature, environment games (examples) – Role of NGO's and Government organizations in wildlife conservation – Wildlife celebration days in India. Technical writing and reporting of field studies. Public presentation. Field Project/ Report – visit to Zoological parks, wildlife sanctuaries and biosphere reserves.

Diplo Sellose
Association Diplomatical Diplomatical Displayers of the second displayers of the s

Page 65

Biostatistics peactical ref

ELECTIVE-III-AQUACULTURE

emester II sub code-PZOE22 Hours 5/5credits

Objectives

Subcode-PZOE22

- 1. This paper is planned to Gain knowledge in the fish food
- 2. To understand the fish feeding habits
- 3. To learn about investigating the seed production
- To understand the farm management and method of farming

UNIT-I: Introduction to Aquaculture

(Importance of aquaculture, Global scenario, Present status in India - Prospects and reculture Farms. Site selection, topography, water availability and supply, soil quality. Design and layout, structure and construction.

ogy of important cultivable species and their economics

Standard guidance for choosing cultivable species - Seawceds, Crustaceans (Prawns & Lobsters), Molluses (Clams, Cockles, Mussels and Oysters) and fishesbiological criteria - Environmental Semester-VI

Subcode: SBSEZ

SBS- IV

Economic Zoology

2hrs/week

Aim and Objectives:

To gain knowledge about beneficial Insects, Poultry & Aquaculture. To motivate them to rear beneficial Insects, Animals & start Small Scale Industries. To create awareness on agricultural Pests & Vectors of Human Diseases.

Unit-I:

Honey Bee-Types of honey bee-Culture techniques- Diseases of honeybee.

Unit-II:

Poultry Industry-Any three indigenous and exotic breeds Diseases of poultry-Any three poultry products.

Unit-III:

Pearl Industry-Types of Pearls-Pearl formation-Culture of pearls-Pearl producing sites in India.

Unit-IV:

Fishery Industry-Common Edible fishes-Economic Importance of fishes.

Unit-V:

Dairy Science-Different Breeds- milk and milk products - Pasteurization.

Text Book:

Applied Zoology by Dr. N. Arumugam, T. Murugan, J. Johnson Rajeshwari, R. Ram Prabhu, Saras Publication, 2010.

Reference Books:

Economic zoology by jawaid Ashan, Subhas Prasad Sinha (1995), S.Chand & Company Ltd, Ram nagar, New Delhi - 110055

> Dr. P. SATH BAMA MSs, MARI, PAD., Associate Professor and Head

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P.G. Department of Zookigy M.V.Mulhiah Government Arts College(W)

Dindigut - 624001, Tamifnadis,

Semester V

Sub code: SBEOR

SBS-III

Ornamental Fish Culture

2hrs/week

Aim and Objectives: *

To gain knowledge about ornamental fishes To motivate students for aquaculture practices.

Unit-I:

Construction of home aquarium: materials used wooden and metal frames, frameless tanks. Sealants and gums. Design and Construction of aquarium tank.

Unit-II:

Taxonomy and biology of popular ornamental fishes: Live-bearers (Ovo-viviparous)-red swordtail, platy, guppy and molly. Egg layers (oviparous)-gold fish, Siamese fighting fish, gourami, angel fish, Oscar, Koi corp, Neon tetra, discus and red tail shark.

Nutritional requirements of Ornamental fishesdifferent kinds of feeds-larval feeds and feeding.

Unit-IV:

Clearing the aquarium, maintenance of water quality (temperature,heating,waterchange,ammonia,Oy/Co2,PH,water hardness)-Control of snail and algal growth.

Commercially important marine ornamental fishes, Entrepreneurships development in ornamental fish culture.

Home Aquarium, Dr. C.S. Tharadevei, Dr. K.V. Jayashree, Saras Publication, 2010

Reference Books:

Manual of ornamental fishes and farming technology, J.D.Jameson and R.Santhanam 1996. Fisheries College and Research institute, TANVASU, Tuticorin.

Manual on freshwater ornamental fish culture, R.Santhakumar et al; 2007. Dept of fisheries extension.

Fisheries College and Research institute, TANVASU, Tuticorin.

Biodiversity and stock assessment of marine ornamental fishes, V.K. Venkataramani et al: 2004. Dept of Fisheries. Biology and Capture fisheries .Fisheries College and Research institute. TANVASU. Tuticorin-628008.

> Dr. P. SATHIYA BAMA M.Sc., M.PH., Ph.D. Associate Professor and Head

M.V.T.

Skill Based Elective Course For B.Sc. Zoology -

Semester-III

SBS-I

sub code: SBEYC

VERMICULTURE

2hrs/week

Aim and Objectives:

To identify the different species of earthworms. To understand the importance of Vermiculture. To acquire knowledge on the uses of vermicastings in organic farming,

Unit-I:

Earthworms-Taxonomic position and diversity; types - Epigeic species, Endogeic species and Anecics.

Vermiculture-definition, scope and importance, common species for culture, Environmental requirements; culture methods-wormery-breeding techniques; Indore and outdoor cultures.

Applications of vermiculture-Vermiculture Biotechnology-vermicomposting, use of vermicastings in organic farming/horticulture-vermiwash.

Earthworms for management of municipal/selected biomedical solid wastes, as feed/balt for capture/culture fisheries; forest regeneration.

Future perspectives-Potentials and constraints for vermiculture in India.

Reference Book:

Sultan Ahmed Ismail, 2005. The Earthworm Book, 2nd revised edn, Other India press, Goa, India

Professor and Head P.G. Department of Zaciony M.V.Muthiah Government Arts Co

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pester - HI-IV ELECTIVE PAPER-I

TOTAL HOURS: 45

SUBJECT CODE: BZ 042 SERICULTURE

UNITS	CONTENTS	HOURS
1	Introduction to sericulture, moriculture, classification of Mulbery, Methods of cultivation.	5 .
П ,	Silkworm biology - Taxonomy, life cycle, anatomy. Diseases of Bombyx mori - a. Bacterial, b. Fungal c. Viral, Silk worm pest - Uzifly	10
	59 100	
Ш	Seed /silkworm eggs. Structure - Commercial and reproductive Seeds, Voltinism, Hiber nating and non hiber nating eggs,	5 7
	policy and a second of the second	15
IV	Rearing: Rearing house and appliances, Rearing processes. Chawkiworm rearing—optimum feeding, optimum	15
	Environmental conditions, care during rearing and cleaning, Selection of ripeworm, spinning, mounting,	
	Harvesting, storage and transport.	
V.	Reeling - Stiffing, reeling appliances - types of croissures,	10
	Country charka, cottage basin, filature units,	
AL SALE	Applications of silk.	

Text Book:

Applied Zoology- Dr.N.Arumugam, T.Murugan, J.Johnson Rajeshwar, R. Ram Prabhu, Saras Publication, 2010.

Reference Books:

 G. Ganga & J. Sulochana Chetty, 1997. An introduction to sericulture (Oxford & IBH bubl.Co.Pvt. Ltd.)

2. Hand Book of Practical Sericulture by Ullal and Narsimhanna. CSB.

Bangalore

Jacobson

Semester III Non Major Elective 1 - Apiculture

Subrode: DNMEAC Unit- I

2hrs/Week

Introduction to Apiculture - Scope of Apiculture, Honey bee -Classification, types of honey bees - Apis dorsata, Apis florae, Apis indica and Dammer Kee

Unit-II

Bee colony- function of members -Different kinds of cells, Bee hive and its architechture, communication in bees.

Unit-III

Apis indica - social life in Indian honey bee. Morphology of Queen, Drones and Workers.

Unit - IV

Bee keeping - methods of bee keeping in India - Primitive hives wall type, movable type, bamboo hive. Modern hives longstroth ten frame hive, Newton's hive. Appliances use in bee keeping.

Unit - V

Economic importance of bee products - chemical composition, Nutritive value and medicinal uses of honey, bee wax, bee yenom and disease of honey bees.

ference Books;

1. Applied Zoology Dr. N. Arumugam, Dr. S. Murugan, Dr. J. Johnson Rajeshwar and Dr. R.

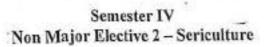
2. A text book of Economic Zoology Ravindranathan K. R, Dominent Publishers and

Entomology M. S. Nalina sundari M. J. P Publications, Chennai, 2006.

4. Hand book of Bee Keeping, Sharma P.L & Singh S. Agrobius Publ, India, 2001. riand book of Economic Zoology. Ravindranathan K. R. Dominent Publishing &

distributors, New Delhi, 2005.

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Subcode: ONMSC

2hrs/-week

Introduction to Sericulture: Moriculture-Classification of mulberry: Methods of Cultivation.

Unit-II: Silkworm biology-Taxonomy, Life-cycle-Diseases of Bambyx mori -A) Pebrine B) Muscardine, Silkworm pest-Uzi fly.

Unit-III: Silkworm eggs/seeds-Commercial and reproductive seeds. Voltinism. Hibernating and Non-hibernating eggs,

Rearing: Rearing house and appliances-Chawkiworm rearing, rearing processes.

Unit-V: Reeling-reeling appliances. Country Charka, Cottage basin, Filature units.

Applied Zoology by Dr. N. Arumugam, T. Murugan, J, Johnson Rajeshwari, R. Ram Prabhu Text Book; Saras Publication, 2010.

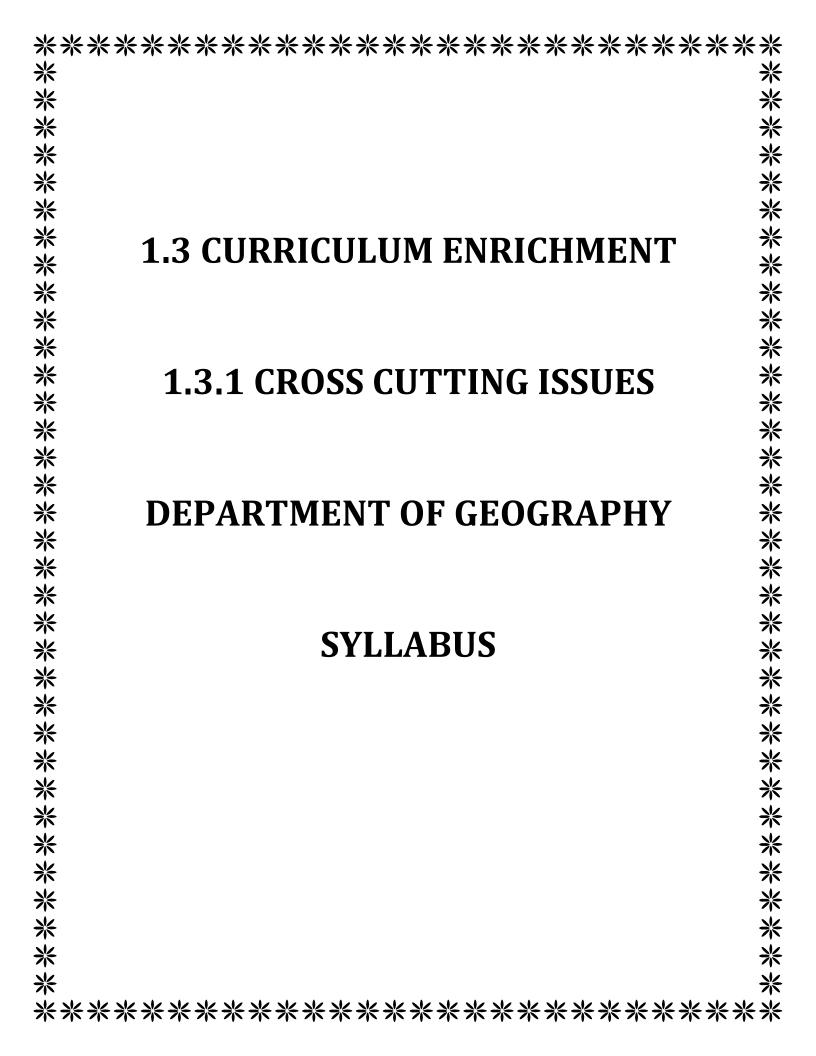
Reference Books:

An Introduction to Sericulture-. G. Ganga & J. Sulochana Chetty, 1997. (Oxford & IBH bubl,Co,Pvt. Ltd.)

Hand Book of Practical Sericulture by Ullal and Narsimhanna. CSB. Bangalore

Manual of Sericulture-Rearing, Reeling, Moriculture.

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Course Code	U21ZON3I1	PUBLIC HEALTH AND HYGIENE	L	Т	P	C
NME	1		2	-	15-10	2
Cognitive Level	K1: Recall	K2: Understand K3: A	pply	May an	Presin	of ongo
Learning objective	> To creat > To ident > To learn measur	awareness on Public Health and Hygiene to knowledge on Health Education and haza tify the communicable diseases and their communicable diseases a brehend the health education of India	ntrol	meası eir p	ires reven	tive
Unit I	Scope of Public	c health and Hygiene:				
Scope of Pu Nutritional de	blic health and eficiencies - Vitan	Hygiene – nutrition and health – class nin deficiencies.	ificati	on of	food	is –
Unit II	Environment a	nd Health hazards:				
Environment health hazard	and Health haza s.	urds - Environmental degradation - Polli	ution	and a	ssoci	ated
Unit III	Communicable	diseases:				_
Communicab Rabies, Plaug	le diseases and t e, Leprosy, AIDS	heir control measures such as Measles, l and Corona.	Polio,	Chik	ungu	nya,
Unit IV	Non-Communi	cable diseases:				
Non-Commu Heart disease:	l nicable diseases a s, Stroke, Diabetes	nd their preventive measures such as Hyp s, Obesity and Mental ill-health.	ertens	sion,	Coror	nary
Unit V	Health Educati	on in India:				-
Health Educa and their healt	tion in India – W th services – Preca	HO Programmes - Government and Volu autions, First Aid and awareness on sporadi	ntary c dise	Orga	nizati	ons
Text Books	2. Dubey, I Chand &	I Park,: Text Book of Preventive and as Bhanot Publ. Jodhpur – India. 2010 R.C and Maheswari, D.K.: Text Book of Co. Publ. New Delhi – India. 2007 . and Park, K. Textbook of Community Hea	Micr	obiol	ogy -	- S.

Dr. P. SATHIYA BAMA M.Sc., M.Phil., Ph.D.,

Associate Professor and Head P.G. Department of Zoology M.V.Muthiah Government Arts College(W) Dindigul - 624001, Tamilnadu.

Page 32

Course Code	U21ZON421	VERMICOMPOSTING	L	Т	P	C
NME	I		2	取版	152.94 162.91	2
Cognitive Level	K1: Recall	K2: Understand K3: Apply K5: A	nalyse	SALE	SEP,	200
Learning objective	> To learn about and Culture te > To study the voice of minimizing	rough knowledge on making vermicompost and it South Indian and North Indian species used in chniques of earthworms vermicompost production the self employment practice and save the huma the use of chemical fertilizers.	n Vern	nicor	npos	
Unit I	Taxonomy of Ea	The state of the s	31110			
friend. Unit II	Types of earthwe					
Types of ear Vermicompo techniques of	sting - Collection	and Preservation of earthworms for vermicon	ian sp nposti	ecies ng –	Cul	d ir ture
Unit III	Vermicompost p	roduction:				
		equirements - Different methods of Vermice method - changes during Vemicomposting.	ompos	ting	– H	eap
Unit IV	Role of Earthwo	rms in soil fertility:				
earthworms vermiwash po	in land improvemend roduction. Earthwor	ertility – Use of Vermicompost for crop pro- ent and land reclamation – Economics of V rms as animal feed – Medicinal value of earthwo rage and faecal waste management and Vermifilt	/ermio	comp eal –	Role	and

Unit V Interaction of earthworms:

Interaction of earthworms with other organisms – Influence of chemical inputs on earthworm activities – Large scale manufacture of Vermicompost, packaging of vermicompost and its marketing – Financial supporting – Government and NGOs for vermiculture work

Dr. P. SATHIYA BAMA M.Sc., M.Phil., Ph.D.,

P.C. Department of Zoology
M.V.Muthiah Government Arts College(W)
Dindigul - 624001, Tamilnadu.

Page 46

M.V.MUTHIAH GOVERNMENT ARTS COLLEGE FOR WOMEN, DINDIGUL DEPARTMENT OF GEOGRAPHY

CROSS CUTTING ISSUES

2022-2023

S No	Sub Code	Sub Name	Course Significance
1	U21GEN311	NME - Principles of Remote Sensing	 To develop technical knowledge of satellite system To lean interface of Remote Sensing and GIS
2	U21MSS31	Computer Application In Geography	 To understand the traffic flow, connectivity measures and binary matrix. To understand the line graphs, poly graphs and compound line graphs.
3	U21GEN421	NME- Geographical Information System	 Student familiar with modern techniques in Geography Students understand physical geography and the methods and techniques.
4	UGET53	Human Geography	 To understand global and regional patterns of cultural, political and economic institutions, and their effects on the preservation. To develop an idea about the world population distribution and the factors that lead to uneven distribution of the population
5	UGES53	SBE- Applications of Statistical Methods in Geography	 To learn how to apply discrete and continuous probability distribution to various business problems. Students would be able to make a rational choice amongst 'listed various statistical methods
6	UGEE64	Biogeography	 To understand about the concept and relevance of biogeography, ecosystem and ecology responsible for the global trend. To apply interaction of biotic and abiotic resources
7	P21GET23	Geography	 To learn the Nutrition Deficiency related Disease and the Geographical perspectives of communicable and non-Communicable Disease. To know the hierarchy of Medical services and GIS in public surveillance and monitoring.

8	P21GEN21	Elective - I - NME - Geography of India for Competitive Examinations	 To understand the social distribution of population and transportation network of their country. To understand the economic resources of India
9	P21GET34	Population Geography	 To understand the population policies in developed & developing countries To understand the various kinds of demographic problems eg. Zero, under & decline population.
- 10	P21WSS33	Women Empowerment	 To a great extent on numerous different variables that encompass geographical setting, social status, educational status, and age factor. To effective participation in different development programs, and encouraging them to be independent and self-confident, to meet the challenges of living in a patriarchal society with courage and self-respect
1	1 P21GEE411	Social Geography	 To understanding the concept of space and place, religions and language groups To understand an overview of the culture complex, cultural heritage and cultural imperialism

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SEMESTER - III

Non - Major Elective - I

PRICIPLES OF REMOTE SENSING

Credit: 2

Course Code: 21GEN311

Hours: 2

Learning Objectives:

- The aim of this course is to introduce students to the interface of Remote Sensing
 and GIS
- Also introduce about to various aspects of Aerial photographs.
- It will be teach about the important elements of the Geospatial technology.
- To develop new insights among students on the relevance of geospatial studies within the field of geography.
- It gives the technical knowledge of satellite system. . .
- UNIT I INTRODUCTION Principles of remote sensing History
- UNIT II EMR Electromagnetic spectrum Energy interactions with atmosphere and earth surface features
- UNIT III SATELLITE REMOTE SENSING Platforms Sensors
- UNIT IV AERIAL PHOTOGRAPHS types elements of interpretation and uses of aerial photographs
- UNIT V SATELLITE IMAGERY types visual image interpretation uses of satellite imageries.

TEXT BOOKS:

- Campbell J. B., Introduction to Remote Sensing, Guildford Press, 2007.
- Jensen J. R., Introductory Digital Image Processing: A Remote Sensing Perspective, Prentice Hall, 2004.
- Joseph, G. Fundamentals of Remote Sensing, United Press India, 2005.
- 4. Nag P. and Kudra, M., Digital Remote Sensing, Concept, New Delhi, 1998.
- 5. Rees W. G., Physical Principles of Remote Sensing, Cambridge University Press, 2001.

REFERENCE BOOKS:

- LanHeywod, Sarah Cornelines, An Introduction to Geographical Information System I Addison, Wesley, Longman Ltd, 2000
- 2. C.S.Agarwal & P.K.Grag, Text Book of Remote Sensing, Wheeler Publishing, 2000
- 3. Gampbell. James B.I Introduction to Remote Sensing, The Guild Press, New York, 2017

- 4. Curran, Fundamentals of Remote Sensing, Longman, London, 2006
- Lillesend TM & Kiefer R.W, Remote Sensing & Image Interpretation, John Wiley & sons, New York, 2004.
- Luedev D.R. Aerial Photographic Interpretation Mc. Graw Hill Company, New York, 2000.

Learning Outcomes:

CO	After the completion of the course, students will be able to	Remarks			
CO1	Students will demonstrate knowledge of the foundations and theories				
CO2	Students will demonstrate their knowledge of physical geography and the methods and techniques for observing, measuring, recording and reporting on geographic phenomena.	K2 :			
соз	Students will demonstrate their competence to work individually and as a team to develop and present a client-driven GIS solution.	K2			
CO4	Student will be familiar with modern techniques in Geography.	K4			
CO5	Students will be prepared to apply their skills in professional careers for UGC NET/SLET exams and other competitive exams including the civil services.	K5			

*K1 – Remember, K2 – Understand, K3 – Apply, K4 – Analyze, K5 – Evaluate

Outcome Mapping:

PO/CO	P01	P02	PO3	P04	P05	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	3	3	2	2	3	3	2	2	2	3
CO2	3	3	3	3	2	3	3	3	2	2	3
CO3	3	2	3	3	2	2	3	3	2	2	2
CO4	3	2	3	2	3	3	3	3	2	2	2
CO5	3	3	3	3	3	2	3	3	2	2	2

*Strongly Correlating - 3, Moderately Correlating - 2, Weekly Correlating - 1, No Correlation - 0

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SEMESTER - III

JOB ORIENTED COURSE - I

PRACTICAL – COMPUTER APPLICATION IN GEOGRAPHY

Credit: 2

Course Code: U21MSS31

Hours: 2

Learning Objectives:

- Understand the fundamentals of computer
- Explaining the Representation of population data.
- Understand the Analysis of Agricultural data.
- Explaining the Representation of industrial data.
- Explaining the Representation of transport data.
- UNIT I INTRODUCTION TO COMPUTERS: Hardware and Software Operating Systems - Working with Microsoft Windows – File Management – Creation of Files and Folders – Moving, Cutting, Copyling, Pasting and Deleting of Files and Folders.
- UNIT II INTRODUCTION TO MICROSOFT OFFICE PACKAGE: Word, Excel, Power Point Outlook and Access Working with Microsoft Word Creation of New Files, Documents, Templates Save, Edit, Format, Insert Table, Pictures, Pages Adding Headers and Footers Out–put Generation.
- UNIT III WORKING WITH MICROSOFT EXCEL: Creation of New worksheet –
 Formatting of Cells Statistical Analysis of Data Creation of Charts –
 Formatting Charts Output Generation.
- UNIT IV DATA ANALYSIS: Analysis of agricultural data distribution of crops dot choropleth –piechart.
- UNIT V REPRESENTATION OF INDUSTRIAL AND TRANSPORT DATA: Triangular graph traffic flow connectivity measures and binary matrix.

TEXT BOOKS:

 Monkhouse F.J. and Wilkinson H.R. - Maps and Diagrams - Dirton Co., Newyork, 1999.

all borning Incom Takes Pictures.

2. R.P.Mishra and A.Ramesh - Fundamentals of Cartography - Concept

publishing Company,New Delhi, 1996.

3. Robinson A.H. and R.D.Sale-Elements of Cartography-Hjohn Wiley and Sons, NewYork, 2011.

REFERENCE BOOKS:

- 1. Singh R.L. and P.K.Dutt-Elements of Practical Geography, 1969.
- M.D.Zulfequar ahamad Khan Text Book of Practical Geography, Concept Publishing Company, NewDelhi, 2001.

Learning Outcomes

co	After the completion of the course, students will be able to	Remarks
CO1	Students will have a basic knowledge of the components of computer	. K2
CO2	Students will learn and understand the line graphs, poly graphs and compound line graphs.	K2
соз	Students will have an effectively Understand the dot, choropleth, pie chart.	К2
CO4	Students will have the knowledge of the triangular graph.	. КЗ
CO5	Students will have an effectively Understand the traffic flow, connectivity measures and binary matrix.	K4

^{*}K1 - Remember, K2 - Understand, K3 - Apply, K4 - Analyze, K5 - Evaluate

Outcome Mapping:

01	PO2	PO3	P04	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
3	3	3	2	3	2	3	2	2	3	2 ,
3	3	3	3	3	2	3	. 3	2	3	2
3	3	3	3	2	3	3	3	2	3	3
3	1950	3	2	2	3	3	3	2	3	3
3	2	3	3	2	3	3	3	. 2	3	2
1	3	3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3	3 3 2 3 3 3 3 3 3 3 2	3 3 3 2 3 3 3 3 3 3 3 3 3 2 2 3 3 3 2 2	3 3 3 2 3 2 3 3 3 3 3 2 3 3 3 3 2 3 3 3 3 2 2 3	3 3 3 2 3 2 3 3 3 3 3 2 3 3 3 3 2 3 3 3 3 3 2 2 3 3 3 3 2 2 3 3	3 3 3 2 3 2 3 2 3 3 3 3 2 3 3 3 3 3 2 3 3 3 3 3 2 2 3 3 3 3 2 2 3 3 3 3 2 2 3 3	3 3 3 2 3 2 3 2 2 3 3 3 3 2 3 3 2 3 3 3 2 3 3 3 2 3 3 3 2 2 3 3 3 2 3 3 3 2 2 3 3 3 2	3 3 3 2 3 2 3 2 3 3 3 3 3 2 3 3 2 3 3 3 3 2 3 3 3 2 3 3 3 3 2 2 3 3 2 3 3 3 2 2 3 3 2 3

*Strongly Correlating - 3, Moderately Correlating - 2, Weekly Correlating

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SEMESTER - IV NME - II - GEOGRAPHICAL INFORMATION SYSTEM

Credit: 2 Course Code: U21GEN411 Hours: 2

Learning Objectives:

- They can know about concept and components of Geographical Information System.
- Know about GIS data structures:
- Students will able to an idea about GIS Data Analysis.
- They understand the satellite remote sensing
- Students understand the Global Positioning System.
- UNIT I INTRODUCTION: GIS Definition history components hardware software data people
- UNIT II GIS DATA TYPES: Geographic data point, line and area spatial data and non spatial data
- UNIT III GIS DATA STRUCTURES: Data model raster and vector data conversation digitization errors
- UNIT IV GIS DATA ANALYSIS: Database Management System (DBMS) use of GIS
- UNIT V INTRODUCTION Of GPS: GPS Definition history segments uses

TEXT BOOKS:

- Campbell J. B., Introduction to Remote Sensing, Guildford Press, 2007.
- Jensen J. R., Introductory Digital Image Processing: A Remote Sensing Perspective, Prentice Hall, 2004.
- Joseph, G. Fundamentals of Remote Sensing, United Press India, 2005.
- Nag P. and Kudra, M., Digital Remote Sensing, Concept, New Delhi, 1998.
- Rees W. G., Physical Principles of Remote Sensing, Cambridge University Press, 2001.

REFERENCE BOOKS:

- C.S.Agarwal & P.K.Grag, Text Book of Remote Sensing, Wheeler Publishing, 2000
- Gampbell. James B.I Introduction to Remote Sensing, The Guild Press, New York, 2017
- Curran, Fundamentals of Remote Sensing, Longman, London, 2006

- 4. Lillesend TM & Kiefer R.W., Remote Sensing & Image Interpretation, John . sons, New York, 2004.
- 5. Luedev D.R. Aerial Photographic Interpretation Mc. Graw Hill Company, New York, 2000

Learning Outcomes:

earn	ing Outcomes:	Remarks
co	After the completion of the course, students will be able to	
coı	Students will acquire knowledge regarding the use of modern tools and technology like GPS, GIS in geographical studies and can apply this knowledge in any field of study.	К3
CO2	They can know about concepts, components, development, and types of GIS	К2
соз	Students can acquire a broad knowledge regarding GIS and can developed idea about aerial photographs, satellite imagery etc.	K4
CO4	They understand about Aerial photography and Satellite Remote Sensing.	К2
COS	Develop an idea about interpretation and application of GIS	K4

^{*}K1 - Remember, K2 - Understand, K3 - Apply, K4 - Analyze, K5 - Evaluate

Outcome Mapping:

PO/CO	PO1	PO2	Р03	PO4	P05	PSO1	PSO2	PSO3	PSO4	PS05	PSO6
CO1	3	3	3	2	3	3	3	2	2	3	2
CO2	3	3	2	3	2	3	3	3	3	2	3
CO3	3	2	2	2	2	3	3	2	2	3	2
CO4	3	2	3	3	3	3	3	3	3	2	3
CO5	3	3	3	3	-2	3	3	2	-2	2	2

*Strongly Correlating - 3, Moderately Correlating - 2, Weekly Correlating - 1, No Correlation - 0

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SEMESTER- V

Aims and Objectives

- HUMAN GEOGRAPHY
- Demonstrate and analyze knowledge of the facts, processes, and methods of
- Demonstrate and analyze knowledge of the facts, processes, and methods of human Demonstrate and analyze knowledge of the facts, processes, and methods of

UNIT I	o-upny.	of the facts.	ethods of human
	Scope and determinis	l content, definition - different m, Possibilism and Probabilism - branches in human geography.	es, and methods of
UNIT II	World	l content, definition – different im, Possibilism and Probabilism – - branches in human geography. ural regions – Food gathers	viewpoints - concent
	- Bushmer	ural regions - Food gatherers - Ser n - Cultivators - People of the	trends in human
UNIT III	Masal and	levels of culture in the	nang and Sakai; Hunt

	Bushmen - Collegions - Food gather	numan
UNIT III	Bushmen - Cultivators - People of the Malabar coas Human Races - Classification And district the street of the s	ol
	Human Races - Co	t - Nomed
UNIT IV	Human Races - Classification - Distribution - Poly	-magg.

TIME	and distribution.	ation - Distribution - Religion - Major types
UNIT IV	Population - Spatial pat	Distribution - Religion - Major types
	over population and pat	tern of distribute

UNIT IV	- Distribution.	
	Population - Spatial nest	
	pattern of	
	and optimum and under population - growth	
70 2 00000000	over population and under population - growth - problems and optimum theory - Migration - Causes - consequent	s of
UNIT V	Causes - Malt	hus
	Rural and Urban settlement - 5	and
	morpholo-	

UNIT V	Problems. Migration - Causes - consequences and
	Rural and Urban settlem
	Rural and Urban settlement - factors - types - growth - Urban morphology and functional classification of towns - Urbanization -
	world , India. Urbanization -
PPPPPP	

REFERENCE BOOKS:

- 1. Majid Husain-Human Geography-Rawat Publications 1994.
- 2. Gillian C.Morgan Human and Economics Geography, Oxford University Publications 1999.
- 3. Aime Vincent Perpillou-Human Geography, Longman Group limited London 1977.
- C.Daryll Forde-Habitat, Economy and Society, Methuen Publishers 1977.
- Ray-M.Northam-Urban Geography, John Wiley and sons Publications 1979.

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SEMESTER- V

SBE – III – Practical - Application of Statistical methods in Geography

- Unit I Basic concepts- data- Data sources and types of data raw datavariables- class- class limits- class boundaries- class widthclass - class mark- class frequencies.
- Unit II Frequency distribution cumulative frequency graphical representation of frequency distribution.
- Unit III Histogram frequency curve frequency polygon- cumulative frequency polygon cumulative frequency curve.
- Unit IV Mean- median -mode Skewness and Kurtosis Selection of class intervals for mapping.

REFERENCE BOOKS

- 1 R.L. Singh _ Elements of Practical Geography, Kalyani Publishres, New Delhi
- 2 F.J. Monkhouse and H.R Wilkinson, Maps and Diagrams, B.I. Publications, Madras
- 3 Gopal Singh Map work and Practical Geography, Vikas publishing house Ltd
- 4 V.P. Subrahmanyam and Subramaniam, A.R. Application of water balance concept for a climatic study of droughts in south India, 1964
- 5 M.D.Zulfequar ahamad Khan -Text Book of Practical Geography, Concept Publishing Company, NewDelhi.

PG and Research Deportment of Grography M.V.Muthish Gurt. Arts College (W) DINDIGUS-524 001.

SEMESTER - VI

ELECTIVE - IV - BIOGEOGRAPHY

Aims and Objectives

- To introduce students to the foundations, current state-of-the-art, and future of the field of Biogeography.
- UNIT I Definition, scope and significance of biogeography basic ecological concepts and principles ecosystem types of ecosystems components of ecosystem functioning of ecosystem concepts of biome types, ecotone and community bio diversity.
- UNIT II Origin of fauna and flora plant and animal evolution through geological times, distribution of plant life on earth and its relation to soil types climates and human practices.
- UNIT III Problem of extinction of plant and animal life habitat decay and their conservation process of desertification its consequences and its management principles.
- UNIT IV Industrial effluent and its effect on fresh water biology management practices (special reference to India)
- UNIT V Study of ecological regions of Himalayas and Western Ghats in relations to their plant and animal life, their Interrelations, problems conservation and management measures.

REFERENCE BOOKS

- 1. Robinson Biogeography ELBS Mc Donald and Evans London, 1982
- L.G. Simons Biogeographically process Allen and Unwell, London.
- C Barry Cox, Black Well Biographical an Ecological Evolutionary approach - Oxford 1977
- B,Seddon Biogeography Duck worth, London 1971.

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Code	(355)	36536	295	SECTION 1
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Learning Objectives:

- The broad objective of the course is introduced to the student the concept of health and Disease, climate and Disease.
- To guide students to learn the Nutrition Deficiency related Disease and the Geographical perspectives of communicable and non-Communicable Disease.
- Student will be exposed the Disease Ecology, Disease diffusion and the Dynamics of major Disease.
- Student will understand the Medical Geography, medical Statistics and disease measurement and analysis.
- To know the hierarchy of Medical services and GIS in public surveillance and monitoring.

Unit I Perspectives on Health

12 hours

Nature, scope and development of Medical Geography - Traditional and contemporary approaches - Concept of Health and Diseases - Reproductive Health - Climate and Health - Human diseases - Classification - Infectious, Degenerative and chronic, inherited and genetic diseases.

Unit II Diseases Pattern

12 hours

Nutrition - Deficiency related diseases - Geographical perspectives of Communicable and Non-communicable diseases - Epidemic, Endemic and Pandemic nature of diseases - Major Tropical diseases - Malaria, Filariasis and Leprosy Cancer and Heart attack - Social diseases - HIV IAIDS, STD.

Unit III Disease Ecology

12 hours

Determinants of diseases - Interplay of environmental, cultural, socioeconomic and ecological factors - Gender and health - Diseases of the rich and poor - Disease diffusion - Concepts - Dynamics of major diseases - Migration and Disease - Travel Medicine.

Unit IV Medical Cartography

12 hours

Measurement techniques of diseases Disease mapping techniques at macro, meso and micro levels - Medical statistics - Epidemiological methods in disease measurement and analysis - Measurement of Morbidity and Mortality.

Unit V Health Care Delivery System and GIS Technics

12 hours

Health care delivery system - Hierarchy of medical services - Planning for manpower, infrastructure and service facilities of health care - Rural and urban disparities - Health education - Improved Health care delivery system - GIS in Public Health surveillance and monitoring Environmental and Health data management.

TEXT BOOKS:



- Textbook of Social and Preventive Medicine Park, 19" edition, Bhandi, 2007, Geography and Health - Hussain, A, Mahaveer & Sons, New Delhi, 2007.
- Geography of Health: A Treatise on Geography of Life and Death in India Misra, R.P., Concept Publishing Company, 2007.
- 3. Tribal Health and Medicines Kalla & Joshi, Concept Publishing Company, 2004. and
- Health and Diseases: Dynamics and Dimensions Surendra Singh & Misra, New Royan Book Company, 2000.

REFERENCE BOOKS:

- Aikat, B.K. Tropical diseases in India, Arnold Meinemann, Delhi, 1stEdition, 1985
- Akhtar Rais, Environmental population and health problems, Ashish, 1990 Publishers Home, New Delhi.
- Ansari, S.H. "Spatial Organization of health care facilities in Haryana" NGЛ, Vol 51, PP 3-4, 51-61.2005

Learning Outcomes:

CO	After the completion of the course, students will be able to	Remarks
CO1	The focus of medical Geography is on the geographical patterns of health and diseases from the view point of the populations.	K2
CO2	Medical Geography seeks to improve our understanding of the various factors which affect the health of the population.	К3
СОЗ	Medical Geography helps researchers to understand the power of mapping their study data and understanding health and disease.	КЗ
CO4	Understanding of the health problems based on the various geographic factors influencing them.	K4
CO5	It focuses on the topics of disease diffusion and human ecology, role of geographical information systems for health and healthcare disparities and various methods for analyzing health/disease data.	K5 .

^{*}K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate

Outcome Mapping:

PO/CO	PO1	DO2	DO2	DO4	DOS	DEOL	DCO2	DCO2	DCO.	nco.	nco
PO/CO	FOI	FU2	103	F04	103	F501	P502	PS03	PS04	PS05	PSO
CO1	3	3	3	3	3	3	3	3	2	3	2
CO2	3	3	3	2	3	3	3	3	3	3	3
CO3	3	2	3	2	3	3	2	3	3	3	2
CO4	3	3	3	3	3	3	3	3	2	3	3
C05	2	3	.2	2	3	2	3	3	3	3	3

*Strongly Correlating - 3

Weekly Correlating -1

Moderately Correlating -2 No Correlation -0

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P21GEN21

GEOGRAPHY OF INDIA FOR COMPETITIVE EXAMINATIONS

L T P C

TIVE -I (NME)

Life and Death in India - Misra, R.P.

Publishing Company, 2004, and

Learning Objectives:

- This course provides an insight into different aspects of physiography, climate, regional variability and culture in India
- Describing the Importance of the value of Regional and Regionalization of Indian.
- Students can acquire an overall knowledge of agriculture, region, industry, transport and trade of India.
- Students will understand the social distribution of population and transportation network
 of their country.
- 5. They understand the economic resources of India.

Unit I Induction 12 hours

Location - Continent of unity in diversity- Relief - drainage-climate-soil types and distribution - Natural vegetation- types and distribution

Unit II Irrigation
Irrigation - Need for Irrigation - Types - canal - tank - well - Multipurpose
projects

Unit III Agriculture

Agriculture – types - Major crops- rice, wheat, millets, cotton, oilseeds, tea, coffee and jute – Agricultural regions - problems – Animal husbandry.

Unit IV Minerals

Minerals — coal, oil, iron ore, manganese, bauxite, copper — Power resources —
Hydel, thermal and atomic - Industries-Iron and Steel, Cement, Textile, Sugar,
Paper, Shipbuilding — Small scale and Cottage Industries.

Unit V Population 12 hours
Population Growth – distribution- density and problems.- Transport and trade.

TEXT BOOKS:

- Thorn Bury D. Principles of Geomorphology, Wiley Eastern Ltd. New Delhi 1984.
- Dayal P. A Text book of Geomorphology, Shukla book Deprt, Patna 1995.
- Lal. D.S., Climatology , Chatianya Publishing House, Allahabad. 1990
- Howard J. Chritchfield, General Climatology, Prentice Hall of India Pvt Ltd. 1987
- Sharma.R.C., and M.Vital Oceanography for Geographers , Chatianya publishing house , Allahabad, 1987

6. Trivedi, R.N - A Text Book of Environmental Sciences, Anmol Publications Pv New Delhi, 1997

REFERENCE BOOKS:

- Sexna, H.M Environmental Geography, Rawat Publications Jaipur, 1999
- F.J. Monkhouse and H.R Wilkinson, Maps and Diagrams, B.I. Publications, 1998,
- Gopal Singh Geography of India, Atma Ram & Sons, New Delhi, 1995
- 4. Sharma T.C. and Countinho. O Economic and Commercial Geography of India, Vikas publishing house Pvt Ltd, New Delhi, 1998
- C.S.Agarwal & P.K.Grag Text Book of Remote Sensing Wheeler Publishing 2000

Learning Outcomes:

Learn	ning Outcomes:	Remarks
co	After the completion of the course, students will be able to	
CO1	The student will get familiarized with the geographic dimensions of India in terms of its political and administrative characteristics; aspects of its regional vitality; and formation of regions.	K2
CO2	The student will understand climatic condition and seasons in India.	К3
CO3	They understand globalization and Indian economy and also understand the regional distribution of resource.	K2
CO4	They understand the population problems in India. Access the population policies and reaction the countries.	K4
CO5	Applying the knowledge of global issues to a unique scientific problem. K2 Understand K3- Apply K4 - Analyze, K5-1	K5

^{*}K1-Remember, K2-Understand, K3-Apply, K4-Analyze, K5-Evaluate

Outcome Mapping:

PO/CO	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	3	3	3	3	3	3	3	3	3	2
CO2	3	3	3	3	3	3	3	3	3	3	3
CO3	3	2	3	2	3	2	2	3	3	3	3
CO4	3	3	3	3	3	3	3	3	2	3	3
CO5	3	3	3	2	3	2	3	3	3	3	3

*Strongly Correlating - 3

Weekly Correlating

Moderately Correlating - 2 No Correlation PO and Research Bagazinesis of Geography

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P21GET34		LTPC
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XIV	POPULATION GEOGRAPHY	5
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Learning Objectives:

- This course introduces the history of population, methodology of population geography, sources & types of population data and spatial distribution of population with causative factors.
- 2. Get knowledge about the various theories and concepts related to population
- The study of the population is an essential component in the planning of current various human related issues.
- They get knowledge about various kinds of demographic problems eg. Zero, under & decline population.
- Population Geography also deals with population policies in developed & developing countries

Unit I Introduction Nature, scope and significance of population geography – Sources of populations data – Reliability of population data. Distribution and density of world population – Factors and pattern distribution.

Unit II Dynamics of Population

Fertility – its measures and determinants and world pattern - mortality – its measures and determinants and world trend – world population growth and its trend – theories of populations growth – Malthus, Ricardo and Marx.

Unit III Demographic Transition

Migration types – determinants – consequences of migrations – laws of migration – policies of migrations.

Unit IV Populations Composition Characteristics 12 hours

Age, sex, rural, urban, occupation education – literacy – determinants and world
pattern

Unit V Population Resource and Policies

Population resource relationship — Optimum population under population — over population — population policies.

TEXT BOOKS:

- Jones, H.R., Population Geography, Paul Chapman, London, 2000.
- Mamoria, C.B. India S Population Problems, Kitab Mahal, New Delhi, 1981.
- Mitra, Ashok, India"s Population Problems and Control (Vol. I &II), Kitab Mahal, New Delhi, 1978.

- Chandna R.S Geography of Population Concepts, Determinants and patterns, Kall Publishers., NewDelhi 1980
- 5. ClarkJohn.L.-Population Geography Pergamum Press Ltd. Oxford 1981
- 6. Gosh, B.N Population Geography, Sterling Publications. 1987
- 7. Beauju-Garneir, J-Geography of Population, Longman group Ltd, 1978

REFERENCE BOOKS:

- 1. Beaujeu, Garnier, J. Geography of Population, Longman, London, 1966.
- 2. Bogue, D.J. Principles in Demography, John Wiley, New York, 1969
- 3. Chandna, R ,C. Geography of Population, Kalyani Publ., New Delhi, 2000.
- Clarke, J.I. Population Geography, Pergamon Press, Oxford, 1972
- 5. Garnier, B. J.Geography of Population, Longman, London, 1970.
- 6. Ghosh, S. Settlement Geography, Orient Longman Ltd., Kolkata, 1998.

Learning Outcomes:

CO	After the completion of the course, students will be able to	Remarks				
COI	population growth, density, fertility, mortality, death rate, birth rate etc.					
CO2	They can understand the negative or positive effects of population distribution and growth in the society and can create awareness among the people of society regarding this.	К2				
СОЗ	Students will be analyzing the global trend and patterns of population growth in developing countries and migration patterns.	К4				
CO4	Students will be evaluating the population growth theory and migration theories.	K4 ,				
CO5	Students will understand the population policies and their importance in different countries.	K5				

^{*}K1- Remember, K2- Understand, K3- Apply, K4 - Analyze, K5- Evaluate

Outcome Mapping

PO/CO	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
COI	3	3	3	3	3	3	3	3	3	3	2
CO2	3	3	3	3 .	3	3	3	3	3	3	3
CO3	3	2	3	2	3	2	2	3	3	3	3
CO4	3	3	.3	-3	3	3	3	3	2	3	3
CO5	3	3 .	3	2	3	2	3	3	3	3	3

*Strongly Correlating -3 Weekly Correlating -1 Moderately Correlating - 2
No Correlation - 0

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DBDLCCU - 624 001

Code P21WSS33	WOMENEMPOWERMENT	LTPC	
Supportive Course III	ZA Z		
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Learning Objectives:

- To understand about Women Empowerment
- To Highlight the various types of empowerment
- To motivate learners to participate in developmental programmes
- 4. To sensitize other women too to make aware of empowerment opportunities
- To Transform women to get real empowerment

Unit I Introduction

Empowerment - Meaning and concept of empowerment - Individual and collective empowerment - Framework for empowerment - Choices women can make for empowerment - Constitution of India - Social Legislation - The Five Years Plans- Welfare approach - Women in Development - Equity approach -Empowerment approach - Indian Women Today - Concept of Agency -Empowerment indicators.

UNIT II Social Empowerment

6 hours

Meaning - Importance and framework - Demography, education, health and nutrition, environment, violence against women - problems and rights of the girl child - Media - Science and technology - Women in difficult circumstances.

UNIT III Economic Empowerment

Women in labour force participation - Women and domestic work - Home based work - Work in organized and unorganized sector - Women in agriculture - industry and service sector - women entrepreneurs - Women selfhelp groups (Micro credit), Gender and poverty - Globalization and women

UNIT IV Political Empowerment

6 hours

Need of women in politics - Dominant women in politics - political participation in grass root level-Barriers for participation of women in local governments - Reservation policy for women in politics - Legal empowerment.

UNIT V Decision Making

Capacity building for empowerment of women - Gender training and capacity building - Training methodology - women Leadership - Group dynamics -Problem solving - Conflict resolution - Group discussions - Crisis management.

Course

TEXT BOOKS:

- Government of India, Planning and Commission, Five Year Plans, the Tenth Five-Year Plan. (1951-56 to 2012-17)
- Meena Priyadharshini S, "SocialempowermentofWomen", 24/7 publications, Kolkatta, 2017.
- Judge, P.S., "Mapping Social Exclusion in India: Caste, Religion and Borderlands", Cambridge University Press, Delhi, 2014.

REFERENCE BOOKS:

- Haque, T, "Empowerment of Rural Women in Developing Countries: Challenges and Pathways", New Delhi: Concept Publishing Company, 2015.
- Ramachandran, Vimala and Kameshwari Jandhyala (ed). Cartographies of Empowerment: The Mahila Samkhya Story. New Delhi: Zubaan, 2012.

Learning Outcomes:

- 1. Understand Social, Economical and Political Empowerment
- 2. Make aware of importance of Women Empowerment
- 3. Understand the women development agents
- 4. Critically analyze the life style and challenges of women

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P21GEE411	W. Comments	The Later Control of the Control of
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ELECTIVE -1	· 1997年2月1日 1993年 1995年	LTPC
Learning Objectives:	SOCIAL GEOGRAPHY	
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- Understanding the concept of space and place, religions and language groups.
- Explaining the Human health and Health care planning.
- Explaining the concept of culture, cultural regions and cultural imperialism. Recognize the difference between boundary and land boundary.
- 5. Understanding the connection between Hartland theory and Rimland theory and

UNITI Introduction of Social Geography

Social Geography - Nature and scope - social structure and processes - concept of space and place -social wellbeing - quality of life - social exclusion, derivation and discrimination issues relating to under privileged groups-spatial distribution of social groups in India, tribes, castes, religions and language

UNIT II Concept of Culture And Cultural Regions in World Concept of culture, culture complex, culture areas and cultural regions, cultural heritage, cultural interactions, cultural diffusion and cultural ecology - cultural

UNIT III Health Factors

Health - factors affecting human health - nutritional status, diseases -12 hours etiological condition, classification and distribution patterns, - Health care planning and policies in India, prospects of medical tourism in India.

UNIT IV Development of Political Geography

12 hours Concept of boundaries and frontiers, heart land and rim land theories - conflicts - resource, regional and ethnic human rights and conflicts resolution - recent trends and development in Political Geography.

UNITV Geo-Politics of World

12 hours

Geopolitics of climatic change, geopolitics of World Resources - regional organizations of cooperation (SAARC, ASEAN, OPEC, EU)

TEXT BOOKS:

- Majid Husain Human Geography Rawat Publications 1994.
- 2. GillianC.Morgan -Human and Economic Geography, Oxford University Publications 1999.

REFERENCE BOOKS:

SEMESTER- V

CORE - X - HUMAN GEOGRAPHY

UNIT 1	Scope and content, definition - different viewpoints - concept of determinism, Possibilism and Probabilism - Recent trends in human geography - branches in human geography.
	geography.

UNIT II World cultural regions - Food gatherers - Semang and Sakai; Hunters - BushmPen - Cultivators - People of the Malabar coast - Nomads- Masai and levels of culture in twentieth century.

UNIT III Human Races - Classification - Distribution - Religion - Major types and distribution.

UNIT IV Population - Spatial pattern of distribution - growth - problems of over population and under population - population Theory - Malthus and optimum theory - Migration - Causes - consequences and problems.

UNIT V Rural and Urban settlement – factors – types - growth –
Urban morphology and functional classification of towns
– Urbanization – Trend, level, - World, India.

REFERENCE BOOKS:

- Majid Husain-Human Geography-Rawat Publications 1994.
- Gillian C.Morgan Human and Economics Geography, Oxford University Publications 1999.
- Aime Vincent Perpillou-Human Geography, Longman Group limited London 1977.
- C.Daryll Forde-Habitat, Economy and Society, Methuen Publishers 1977.
- Ray-M.Northam-Urban Geography, John Wiley and sons Publications
 1979.

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SEMESTER - III

SBE - I - PRACTICAL -REPRESENTATION OF RELIEF FEATURES

- Unit I Representation of relief features by hachures- hill shading- layer tinting spot heights- and bench marks.
- Unit II Contours contour interval- gradient representation

 Of relief features by contours.
- Unit III Area height curve hypsometric graphs- Interpolation of contours.
- Unit IV Cartographic symbols point -line and area symbols

REFERENCE BOOKS

- 1 R.L. Singh _ Elements of Practical Geography, Kalyani Publishres, New Delhi
- 2 F.J. Monkhouse and H.R Wilkinson, Maps and Diagrams, B.I. Publications, Madras
- 3 Gopal Singh Map work and Practical Geography, Vikas publishing house Ltd
- V.P. Subrahmanyam and Subramaniam, A.R. Application of water balance concept for a climatic study of droughts in south India, 1964
- 5 M.D.Zulfequar ahamad Khan -Text Book of Practical Geography, Concept Publishing Company, NewDelhi.

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SEMESTER - III

NME - I - PRICIPLES OF REMOTE SENSING

- UNIT I Principles of remote sensing History.
- UNIT II EMR Electromagnetic spectrum Energy interactions with atmosphere and earth surface features.
- UNIT III Platforms Sensors.
- UNIT IV Aerial photographs types elements of interpretation and uses of aerial photographs.
- UNIT V Satellite imagery types visual image interpretation uses of satellite imageries.

BOOK FOR REFERENCE.

- C.S.Agarwal & P.K.Grag Text Book of Remote Sensing Wheeler Publishing 2000
- Gampbell. James B.I Introduction to Remote Sensing The Guild Press, New York
- 3. Curran Fundamentals of Remote Sensing Longman, London
- Lillesend TM & Kiefer R.W Remote Sensing & Image Interpretation - John Wiley & sons, New York
- Luedev D.R. Aerial Photographic Interpretation Mc. Graw Hill Company, New York

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SEMESTER-IV

SBE - II - COMPUTER APPLICATIONS IN GEOGRAPHY

- UNIT-I Concept of computer system- Components and memory-Concept of hardware, software, algorithms, systems analysis and computer programming.
- UNIT-II MS office: Use of Word, Excel, Access and Power point
- UNIT-III Software operating system- Programming languages application oriented software-Mapping remote sensing, GIS and statistical software's.
- UNIT-IV Use of SPSS-Statistical summaries of mean, median, mode and standard deviation.
- UNIT-V Use of computer in generating correlation regression and hypothesis testing.

REFERENCE BOOKS

- Microsoft Office 2000 Maria Reid and Karl Schwartz, BPB Publications, New Delhi.
- 2. Fundamentals of Computers V. Raja Raman.
- Introduction to Computers Peter Norton Tata Mc Graw -Hill publishing company limited - New Delhi - 2000.
- PC Software made simple(MS Office) R.K. Taxali.

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SEMESTER-IV

NME - II - GEOGRAPHICAL INFORMATION SYSTEM

UNIT I GIS - Definition - history - components - hardware - software - data - people.

UNIT II Geographic data - point, line and area - spatial data and non spatial data.

UNIT III Data model - raster and vector - data conversation - digitization - errors.

UNIT IV Database Management System (DBMS) - use of GIS.

UNIT V GPS - Definition - history - segments - uses.

REFERENCE BOOKS

- Ball D.R. Babbage Geographic Information System for Defence Application - Pergamon Press - Australia
- Barrette & Burough Principles of GIS for Land Resource Assessment -Clarendon Press - Oxford
- Bidhanesh Misra Geographic Information System & Economic Development.
- Lan Heywod, Sarah Cornelines, An Introduction to Geographical Information System I Addison - Wesley, Longman Ltd, 2000

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SEMESTER- V

SBE - III - Practical - Application of Statistical methods in Geography

- Unit I Basic concepts- data- Data sources and types of data raw datavariables- class- class limits- class boundaries- class widthclass – class mark- class frequencies.
- Unit II Frequency distribution cumulative frequency graphical representation of frequency distribution.
- Unit III Histogram frequency curve frequency polygon- cumulative frequency polygon cumulative frequency curve.
- Unit IV Mean- median -mode Skewness and Kurtosis Selection of class intervals for mapping.

REFERENCE BOOKS

- 1 R.L. Singh _ Elements of Practical Geography, Kalyani Publishres, New Delhi
- 2 F.J. Monkhouse and H.R Wilkinson, Maps and Diagrams, B.I. Publications, Madras
- 3 Gopal Singh Map work and Practical Geography, Vikas publishing house Ltd
- V.P. Subrahmanyam and Subramaniam, A.R. Application of water balance concept for a climatic study of droughts in south India, 1964
- 5 M.D.Zulfequar ahamad Khan -Text Book of Practical Geography, Concept Publishing Company, NewDelhi.

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SEMESTER - VI

SBE -IV - PRACTICAL PRINCIPLES OF SURVEYING

- Unit I Basic principles of survey- classification of survey- survey instruments- and accessories.
- Unit II Chain survey- open and closed methods method of recording measurements in field book.
- Unit III Plane table survey- prismatic compass open and closed traverses
- Unit IV Indian clinometers and dumby level surveying uses of survey instruments.

REFERENCE BOOKS

- 1 R.L. Singh _ Elements of Practical Geography, Kalyani Publishres, New Delhi
- 2 F.J. Monkhouse and H.R Wilkinson, Maps and Diagrams, B.I. Publications, Madras
- 3 Gopal Singh Map work and Practical Geography, Vikas publishing house Ltd
- V.P. Subrahmanyam and Subramaniam, A.R. Application of water balance concept for a climatic study of droughts in south India, 1964
- 5 M.D.Zulfequar ahamad Khan -Text Book of Practical Geography, Concept Publishing Company, NewDelhi.

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Dindigul - 624 001.

Course Code	P21GET23	MEDICAL GEOGRAPHY	L T P C
CORE -VIII	viii		5 4

Learning Objectives:

- 1. The broad objective of the course is introduced to the student the concept of health and Disease, climate and Disease.
- 2. To guide students to learn the Nutrition Deficiency related Disease and the Geographical perspectives of communicable and non-Communicable Disease.
- 3. Student will be exposed the Disease Ecology, Disease diffusion and the Dynamics of major Disease.
- 4. Student will understand the Medical Geography, medical Statistics and disease measurement and analysis.
- 5. To know the hierarchy of Medical services and GIS in public surveillance and monitoring.

Unit I Perspectives on Health

12 hours

Nature, scope and development of Medical Geography - Traditional and contemporary approaches - Concept of Health and Diseases - Reproductive Health - Climate and Health - Human diseases - Classification - Infectious, Degenerative and chronic, inherited and genetic diseases.

Unit II Diseases Pattern

· 12 hours

Nutrition - Deficiency related diseases - Geographical perspectives of Communicable and Non-communicable diseases - Epidemic, Endemic and Pandemic nature of diseases - Major Tropical diseases - Malaria, Filariasis and Leprosy Cancer and Heart attack - Social diseases - HIV IAIDS, STD.

Unit III Disease Ecology

Determinants of diseases - Interplay of environmental, cultural, socioeconomic and ecological factors - Gender and health - Diseases of the rich and poor - Disease diffusion - Concepts - Dynamics of major diseases - Migration and Disease - Travel Medicine,

Unit IV Medical Cartography

Measurement techniques of diseases Disease mapping techniques at macro, meso and micro levels - Medical statistics - Epidemiological methods in disease measurement and analysis - Measurement of Morbidity and Mortality.

Health Care Delivery System and GIS Technics Unit V

Health care delivery system - Hierarchy of medical services - Planning for manpower, infrastructure and service facilities of health care - Rural and urban disparities - Health education - Improved Health care delivery system - GIS in Public Health surveillance and monitoring Environmental and Health data

TEXT BOOKS:

Course Code	P21GEN21	GEOGRAPHY OF INDIA FOR COMPETITIVE	L	T	P	C
ELETIVE -1 (NME)		EXAMINATIONS		TEGIN .	SEC.	40

Learning Objectives:

- This course provides an insight into different aspects of physiography, climate, regional variability and culture in India
- Describing the Importance of the value of Regional and Regionalization of Indian.
- Students can acquire an overall knowledge of agriculture, region, industry, transport and trade of India.
- Students will understand the social distribution of population and transportation network
 of their country.
- They understand the economic resources of India.

Unit I Induction

Location - Continent of unity in diversity- Relief - drainage-climate-soil - types and distribution - Natural vegetation- types and distribution

Unit II Irrigation 12 hours

12 hours

15 projects 17 projects 18 projects 19 projects 19

Unit III Agriculture

Agriculture – types - Major crops- rice, wheat, millets, cotton, oilseeds, tea, coffee and jute – Agricultural regions - problems – Animal husbandry.

Unit IV Minerals

Minerals – coal, oil, iron ore, manganese, bauxite, copper – Power resources – Hydel, thermal and atomic - Industries-Iron and Steel, Cement, Textile, Sugar, Paper, Shipbuilding – Small scale and Cottage Industries.

Unit V Population 12 hours
Population Growth – distribution- density and problems.- Transport and trade.

TEXT BOOKS:

- Thorn Bury D. Principles of Geomorphology, Wiley Eastern Ltd. New Delhi 1984.
- Dayal P. A Text book of Geomorphology, Shukla book Deprt, Patna 1995.
- Lal. D.S., Climatology, Chatianya Publishing House, Allahabad, 1990
- Howard J. Chritchfield, General Climatology, Prentice Hall of India Pvt Ltd, 1987
- Sharma.R.C., and M.Vital Oceanography for Geographers , Chatianya publishing house , Allahabad, 1987

SEMESTER - IV

CORE - XIII- POPULATION GEOGRAPHY

- UNIT I Nature, scope and significance of population geography sources of populations data Reliability of population data. Distribution and density of world population Factors and pattern distribution.
- UNIT II Dynamics of population fertility its measures and determinants and world pattern mortality its measures and determinants and world trend world population growth and its trend theories of populations growth Malthus, Ricardo and Marx.
- UNIT- III Demographic transition Migration types determinants consequences of migrations- laws of migration policies of migrations.
- UNIT IV Populations composition characteristics age . sex, rural, urban, occupation education - literacy determinants and world pattern
- UNIT V Population resource relationship optimum population under population over population population policies.

Reference Books

- Chandna R.S A Geography of Population Concepts, Determinants and patterns, Kalyani Publishers., New Delhi 1980
- Clark John. I.- Population Geography Pergamum Press Ltd. Oxford 1981
- Gosh, B.N Population Geography, Sterling Publications.
 1987
- Beauju- Garneir. J -Geography of Population, Longman group Ltd, 1978

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SEMESTER - I

ELECTIVE - I - SOCIAL GEOGRAPHY

- UNIT I Social Geography Nature and scope social structure and processes concept of space and place social well being quality of life social exclusion, derivation and discrimination issues relating to under privileged groups spatial distribution of social groups in India, tribes, castes, religions and language groups.
- UNIT II Concept of culture, culture complex, culture areas and cultural regions, cultural heritage, cultural interactions, cultural diffusion and cultural ecology cultural imperialism.
- UNIT III Health factors affecting human health nutritional status, diseases etiological condition, classification and distribution patterns, Health care planning and policies in India, prospects of medical tourism in India.
- UNIT IV Concept of boundaries and frontiers, heart land and rim
 land theories conflicts resource, regional and ethnic
 human rights and conflicts resolution recent trends
 and development in Political Geography.
- UNIT V Geopolitics of climatic change, geo politics of World

 Resources regional organizations of co operation (
 SAARC, ASEAN, OPEC, EU)

REFERENCE BOOKS

- 1. Majid Husain-Human Geography-Rawat Publications 1994.
- Gillian C.Morgan Human and Economic Geography, Oxford University Publications 1999.
- Aime Vincent Perpillou-Human Geography, Longman Group limited London 1977.
- C.Daryll Forde-Habitat, Economy and Society, Methuen Publishers 1977.
- Chandna-Popualtion Geography, Kalyani Publishers.

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SEMESTER - II

ELECTIVE - II - ENVIRONMENTAL GEOGRAPHY

- UNIT I Environment Elements and Types Man and environment relationships - determinism - possibilism, changing nature of concept - lithosphere - hydrosphere biosphere - multi disciplinary approach
- UNIT II Concept of Ecosystem Ecosystem structure classification Blomes functioning of the ecosystem food web food pyramid nutrient cycle biodiversity types.
- UNIT III Natural disruptions of the ecosystem natural hazards land slide, earth quake, volcano, floods, droughts, pollution, human interference on ecosystem population growth and its impact Man's modifications of the biosphere agriculture Green Revolution HYV and pesticides mining, soils coastal areas.
- UNIT IV Environmental planning and management; objectives and strategies; natural resource management and conservation (land, water and forest) sustainable development concept, need, problems and strategies EIA principles and procedures.
- UNIT V The Stockholm conference, the earth summits and round tables, climate change (causes and consequences), Kyoto Protocol, world climate data monitoring programme (WCD MP) Environment related policies and programmes in India pertaining to wild life, water, forest and environment; Environment Governances

BOOKS FOR REFERENCE

- 1 Trivedi, R.N A Text Book of Environmental Sciences, Anmol Publications Pvt.Ltd New Delhi, 1997
- 2 Sexna, H.M Envitonmental Geography, Rawat Publications Jaipur, 1999
- 3 Savindhra Singh Environmental Geography Prayag Pushtak Bhawan University Road, Alagabad 1991
- 4 Gillbert White Environment as a Hazard, Toronto, 1978
- 5 Bruce Mitchell Resources and Management Orient Long Man London, 1991

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SEMESTER- V

SBE - IV - GEOGRAPHY OF HEALTH

UNIT-I	Geography of health- Nature, Scope, Significance and development.
UNIT-II	Geographical factors affecting human health- Physical – Social and environmental Factors
UNIT-III	Classification of diseases- infectious, degenerative and chronic, inherited and genetic disease.

UNIT-IV Geographical perspectives of Communicable and Non communicable diseases- disease mapping techniques at macro, meso and micro levels.

UNIT- V Health care planning in India-Health care services-Primary health, family welfare and Immunization.

BOOKS FOR REFERENCE

- Hunter, J.M The geography of Health and Diseases , paper of the first Caroline Geographical Symposium.
- M.C.Glashan, M.D.- Medical Geography Techniques & Field Studies, Methuen University Paper Packs.
- Shannan, G.W & Devar Gea Health Care Delivery Spatial perspectives, New York, Mecgrawhill.
- White, K.L Health Services, Concept & information for national Planning and Management, WHO Geneva.
- R.P. Misra Medical Geography of India , National Book trust, New Delhi
- 6. May J.M Studies in Disease Ecology, Hefiner New York.

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SEMESTER - VI

SBE - IV - BIOGEOGRAPHY

- UNIT I Definition, scope and significance of biogeography basic ecological concepts and principles ecosystem types of ecosystems components of ecosystem functioning of ecosystem concepts of biome types, ecotone and community bio diversity.
- UNIT II Origin of fauna and flora plant and animal evolution through geological times, - distribution of plant life on earth and its relation to soil types – climates and human practices.
- UNIT III Problem of extinction of plant and animal life habitat decay and their conservation process of descriptication its consequences and its management principles.
- UNIT IV Industrial effluent and its effect on fresh water biology management practices (special reference to India)
- UNIT V Study of ecological regions of Himalayas and Western Ghats in relations to their plant and animal life, their Interrelations, problems conservation and management measures.

REFERENCE BOOKS

- 1. Robinson Biogeography ELBS Mc Donald and Evans London, 1982
- 2. L.G. Simons Biogeographically process Allen and Unwell, London.
- C Barry Cox, Black Well Biographical an Ecological Evolutionary approach - Oxford 1977

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SEMESTER - III

SBE - I - DISASTER MANAGEMENT

UNIT I Environmental Hazards - carthquake, volcanoes, landslide

UNIT II Global Warming - Greenhouse effect - cyclones, floods, tsunami - drought.

UNIT III Human impact on agriculture – industries

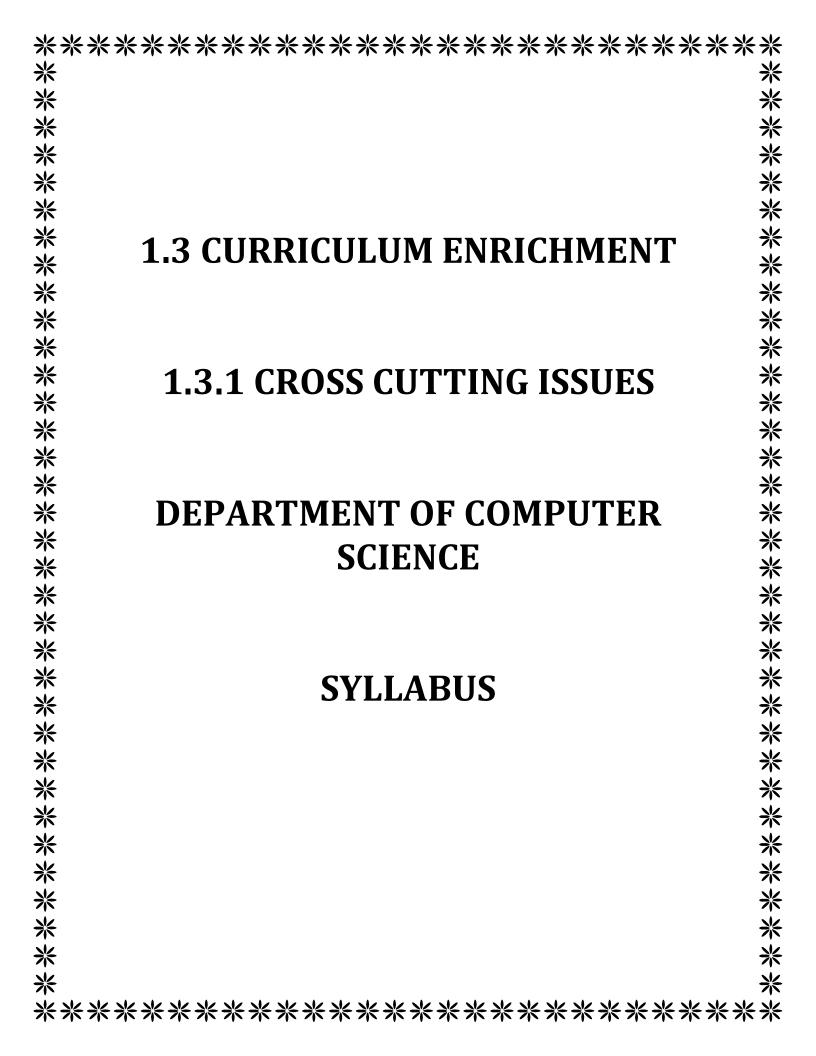
UNIT IV Deforestation - Descrification - Pollution - nature and classification

UNIT V Environmental Impact Assessment and Disaster management.

REFERENCE BOOKS

- Robinson H. Biogeography, Plymouth, MacDonald and Evans Ltd., -1972.
- Mohammad safi Mehdi Raza New Delhi, Rawat Publications -1994.
- Sharma P.D. Ecology and Environment, Meerut, Rasogi Publications.
- Trivedi P.R Water Pollution, New Delhi, Akashdeep, Publishing House - 1992.

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NON-MAJOR ELECTIVE (OFFERED BY PARENT DEPARTMENT)

COURSE	U21CSN31	WEB DESIGNING USING HTML LAB	1 000	T	P	C
CODE	NME - I		2	٠		2
Cognitive Level	K1: RecallK2: 1	UnderstandK3: ApplyK4: Analyze				

OBJECTIVES:

- To Use formatting tags in HTML.
- To recognize How to Insert the Image file in web pages.
- 3. To understand How to navigate through web pages.
- 4. To become Master in creating Web pages using basic HTM tags.

LAB Exercises

- Web page creation using head, title, body, h1 h6.
- 2. Web page creation using formatting tags (bold, italic, underline etc)
- 3. Ordered list
- 4. Unordered list
- 5. Definition list
- 6. Marquee creation
- 7. Web page with images
- 8. Web page creation with various font styles and body colors.
- 9. Hyper link
- 10, Tables
- 11. Frames
- 12. Forms

COURSE OUTCOMES:

On the Successful completion of the course, students will be able to

CO1: Understand the concepts of webpage - K2

CO2: Analyze various tags in HTML - K4

CO3: Gain knowledge in creating webpage - K1

CO4: Design new webpages using HTML - K3

CO5:Recognize to navigate the web pages using HTML - K2

MAPPING OF CO'S WITH PO'S AND PSO'S

CO/PO	POL	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
The second secon	6	M	S	S	M	M	S	S	S	S
COI	9	S	M	S	M	W	S	S	S	S
CO2	8	W	M	S	S	S	S	S	S	S
CO3	8	S	S	M	S	5	M	M	M	M
CO4 CO5	8	S	S	M	S	S	S	W	S	M

S - Strongly Correlating - 3 Marks

M - Moderately Correlating - 2 Marks

W-Weakly Correlating - I Mark



DEPT. OF COMPUTER SCIENCE M.V.MUTHIAH GOVT ARTS COLLEGE FOR WOMEN DINDIGUL

COURSE	U21CSN42	PHOTO DESIGNING TOOLS	L.	T	P	C
NM	E - II					2
Cognitive Level	K1: Recall	C2: UnderstandK3: ApplyK4: Analyze	1-			

OBJECTIVES:

- 1. To navigate Photoshop's Workspace, Create & setup documents
- 2. To Understand about the Layers and Masking.
- 3. To work with effects, filters and adjustments
- 4. To create a broad range of design skills pertaining to publication & web design.

Exercises

- 1. Album preparation
- 2. Invitation Preparation
- 3. Wall Papers
- 4. Visiting Card
- 5. Background Changing and Removing
- 6. Birthday Card
- 7. Friendship Card
- 8. Wedding invitation Card
- 9. Cloning an Image
- 10. Flex Designing
- 11. Photo Editing
- 12 Book Cover

COURSE OUTCOMES

On completion of the course, the student will be able to

- CO1 Design real world applications using photoshop K3
- CO2: Analyze new features in Photoshop K4
- CO3: Develop new drawings using Photoshop K3
- CO4: Expertise to work with Photoshop K1
- CO5: Design skills pertaining to publication & web design K3

MAPPING OF CO'S WITH PO'S AND PSO'S

POL	PO2	PO3	P04	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
e e		S	S	M	M	S	S	M	S
.5	8	M	S	M	W	5	S	M	S
0	8	M	S	S	S	S	S	S	S
8	S	W	M	S	S	S	M	S	M
8	S	M	S	S	S	S	S	S	S
	PO1 S S S S	PO1 PO2 S M S S S S S S S S	S M S S M S S S M S S S W	S M S S S S M S S S W M	S M S S M S S M S M S S W M S	S M S S M M W S S S S S S S S S S S S S	S M S S M M S S S S S S S S S S S S S S	S M S S M M S S S S S S S S S S S S S S	S S M S M W S S M S S M S S S S S S S S S W M S S S S S S

S - Strongly Correlating - 3 Marks

M - Moderately Correlating - 2 Marks

W-Weakly Correlating - 1 Mark

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DEPT. OF COMPUTER SCIENCE
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NON MAJOR ELECTIVE OFFERED FOR OTHER DEPARTMENT STUDENTS

COURSE	P21CSN211	CHOICE - I	L	T	P	(
The second	TER-II	CPROGRAMMING	4			E

Cognitive Level	K1: Recall	K2; Understand	K3: Apply	K4: Analyze
Objectives	To imp To imp		programming to looping, array.	to the students and solving problems,

Lab Exercise:

Simple Programs:

- 1. Finding the largest, smallest among three numbers
- 2. Generate the Fibonacci sequence

Control Structures:

- 1. Find whether a number is prime or not
- 2. Find whether a given number is a perfect or not
- 3. Find the factorial of a number

Arrays:

- 1. Program for Sorting
- Program to search an element
- 3. Find whether given string is a palindrome or not
- 4. Perform the addition of two matrices
- 5. Perform subtraction of two matrices
- 6. Perform multiplication of two matrices

Functions:

- 1. Program to apply Recursion
- 2 Program for Call by Value

Pointers:

-). Program to perform addition
- 2. Program for swapping two numbers

Structures:

- 1. Program to print student information using structures
- 2. Program for Array of structures

File:

- 1. Program for applying File operations
- 2 Program to get n numbers and find odd and even numbers using file.

J. L. P.

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NON MAJOR ELECTIVE (OFFERED BY PARENT DEPARTMENT)

Objectives:

STEELS.

- 1. To understand the history of computer.
- 2. Broad Understanding about I/O Devices.
- 3. Comprehensive Knowledge about Software.
- 4. The Student can Familiar in handling the computer.

FUNDAMENTALS OF COMPUTER

UNITI

Introduction to computers - Generation of Computers - Types of Computers Comparison of Micro, Mini and mainframe computers - Advantages of Computer characteristics of Computer - limitations of computer.

UNIT II

Block diagram of a Computer - input devices - output devices - storage devices - RAM ROM – comparison b w RAM and ROM – Secondary storage devices.

UNIT III

Types of Software - Operating systems - Need for an operating systems - functions of OS - popular operating systems - five generation of programming languages - packages.

UNIT IV

Binary number system - Binary Arithmetic operations (Addition, Subtraction, Multiplication, Division) - ASCII codes _ Algorithms - Flow chart - Pseudo codes - steps in programming.

UNIT V

Definition - Features of networks - Network Topologies -LAN - WAN - MAN -Comparison between LAN and WAN - Introduction to Internet - History of internet uses of Internet - working with windows

Text Book:

Fundamentals of IT - Alexis, Mathews Leon.

DEPT. OF COMPUTER SCIENCE M.V.KUTHIAH GOVT ARTS COLLEGE FOR WOMEN

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NON MAJOR ELECTIVE (OFFERED BY PARENT DEPARTMENT) PRINCIPLES OF INFORMATION TECHNOLOGY



Objectives:

- 1. To understand the Database.
- 2. To Know about the Internet.
- 3. To gain the Deep Knowledge in Multimedia.
- 4. The Students can Familiar in handling the computer.

UNITI

Introduction – history of Information – Quality of Information – Information processing
– Database – Character tics of Data in a Database – DBMS – Types of DBMS – Data
Normalization

UNIT II

Internet and world wide web: Introduction – getting information on the internet –
providing information on the internet – compiling information from the internet – internet
access – basis – protocols – internet addressing – WWW – HTML – Web browsers – searching
the web.

UNIT III

Multimedia Tools: Introduction – graphics effects and techniques – sound & music – video – multimedia authoring tools – virtual reality.

UNIT IV

Data warehouse & Data Mining: Introduction – advantages of data ware house – components – structure – uses – data mining introduction – advantages of data mining – technologies used in data mining.

UNIT V

Application of information technology: Computers in business and industry - computers in home - educations and training - entertainment science and engineering and medicine.

Text books:

1. Fundamentals of information technology - Alexis Leon, Mathews Leon

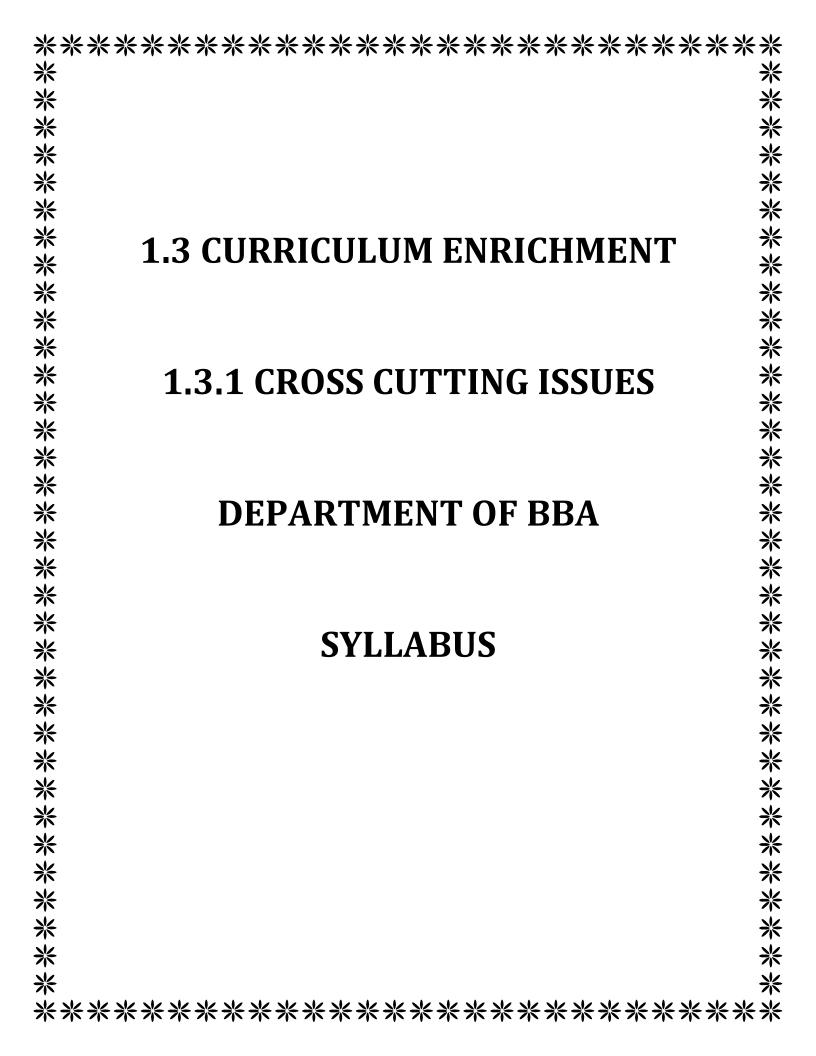
Reference Book:

Advanced information technology – S. Jaiswal

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UBAS31 - FUNDAMENTALS OF INSURANCE (SBE)

Objective:

- To encourage students to develop the knowledge about Insurance.
- To help students to understand the role of micro finance institution in enhancing self, increasing life satisfaction and improving the relationship with others.
- To develop new ability to develop awareness on insurance types.

Semester III

No. of Credit - 2

UNIT-I

Definition of Insurance - Classification of contracts of insurance - Marine and Non-Marine Insurance.

UNIT-II

Life Assurance - Objects of Life assurance - Principles of Life Assurance - Assignment and Nomination - Lapses and Revivals - Surrender values and loans - Claims - Double Insurance.

UNIT-III

Marine - Insurance - Principles of Marine insurance - Functions of marine insurance -Types of marine policies - Warranties - kinds of marine Losses.

UNIT-IV

Fire Insurance - Principles of law as applied to fire insurance. Fire waste - Hazard Types of fire policies.

UNIT-V

Cover Notes - Surveys and Inspections Average - Reinsurance Renewals.

REFERENCE BOOKS

- Sharma R.S., Insurance: Principles and Practices, Vora, Bombay.
- Arifkhan M, Theory and Practice of Insurance, Education Book House.
- Srinivasan M.N., Principles of Insurance Law, Ramanuja Publishers, Bangalore. 3.
- 4. Dr. B. Varadharajan, Insurance: Vols. I and II, Tamil Nadu Text Book Society IV SBEC
- Dr. R. Haridas, Life Insurance in India, New Century Publication, New Delhi. 5.

அறைத்தவைவர் வணிக்கிர்வாகவியல் குறை

UBAS42 - PROJECT MANAGEMENT (THEORY)

Objective:

- To give in-depth understanding of the concept and issues and various aspects of project management.
- To impart the strategies of positioning in project management and identify the right method of promotional events for an organization to introduce new product, offer etc.
- To familiarize the students with the budget preparation for project and measuring the performance of project.

Semester IV No. of Credits 2

UNIT - I

Project management - meaning, definition- features - Purpose of Project managementclassification of projects - stages in project cycle - identification, formulation and implementation - Phases of Project management - 7s of Project management.

UNIT - II

Feasibility study of Projects - Market feasibility, technical feasibility, financial feasibility - different types of appraisal to determine feasibility - feasibility report.

UNIT - III

Social Cost benefit Analysis - The rationale for Social cost benefit analysis, UNIDO approaches for Social Cost benefit analysis, Methods followed by Financial Institutions.

UNIT - IV

Estimation of Project cost - Preliminary expenses - cost of acquisition of fixed assets, cost on technical knowhow, acquisition of patents and licenses - documentation charges - preparation of project report

UNIT - V

Institutional Finance for Projects - National and state level - IDBI, SIDBI, GIC, LIC, UTI, SFC, IFC- functions and schemes

Text and Reference:

- 1. Project Management Vasant Desai, Himalaya Publishing House, Mumbai.
- 2. Project Management Goel B.B., Deep & Deep Publications Pvt. Ltd., New Delhi.
- 3. Project Planning, Analysis Prasanna Chandra, Tata McGraw-Hill, New Delhi.
- 4. Project Management and Control -Rao .P .C .K., Sultan Chand & Sons, New Delhi.
- Project Management: Strategic Financial Planning, Evaluation, and Control Bhavesh M Patel., Vikas Publishing House, New Delhi.

துறைத்தனைவர் வனிகழிவாகவயக் குறை ஸ்.கீ. முத்ததம் அர முகி கூல் கூறி

UBAS53 - GENERAL APTITUDE & REASONING-I (SBS)

Objective:

- To provide a hands on experience in understanding the quantitative techniques to solve problems self.
- To help the students learn the techniques of breaking competitive exams so that they can face competitive exams

Semester - V

No of Credits - 2

UNIT-I

Test of reasoning - analogy - choosing the analogy pair I simple analogy - analogy of words and expression - double, triple analogy - numerical analogy - applied analogy

UNIT-II

Logical Reasoning (Including mathematical) Blood Relations – Odd man out – Pairs as groups – Letter group – Classification of numbers – Understanding the structure of arguments.

UNIT-III

Synonyms - Antonyms _ Verb - Error Correction - Tenses - Sentence Rearrangement - Fill in the Blanks with modals, Articles and Prepositions etc, Reading Comprehension

UNIT-IV

Series Completion - Finding the missing number - Finding wrong term - Alphabet series -Mixed Series

UNIT - V

Information and Communication Technology (ICT): Meaning, Advantages, Disadvantages –

General abbreviations and terminology – Basics of Internet and e-mailing.

REFERENCE BOOKS:

Any book related to this topic

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UBAS64 -GENERAL APTITUDE & REASONING-II

Objective:

 To provide a hands on experience in understanding the quantitative techniques to solve problems self.

To help the students learn the techniques of breaking competitive exams so that they can face competitive exams

Semester - VI

No of Credits - 2

UNIT-I

Coding and Decoding - Letter Coding - Letters and numbers - Letter, numbers and symbols - Metrics coding - Decoding by analysis - Mixed letter coding

UNIT-II

Problems based on Age, Percentage, Profit and Loss, Discount, Time, Speed and Distance – Permutation and Combination – Volume and Surface areas – HCF and LCM – Simple and Compound Interest

UNIT-III

Logical Reasoning: Understanding the structure of arguments – Deductive and Inductive Reasoning – logical word sequence – Ranking sequence and position

UNIT-IV

Reasoning Logical Diagrams: Simple Diagrammatic Relationship – multi diagrammatic Relationship – Venn diagram – Problems based on numbers

UNIT - V

Mirror image - Question on mirror image - Completion of a pattern

REFERENCE BOOKS:

Any book related to this topic

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