

**B.A. Tamil**

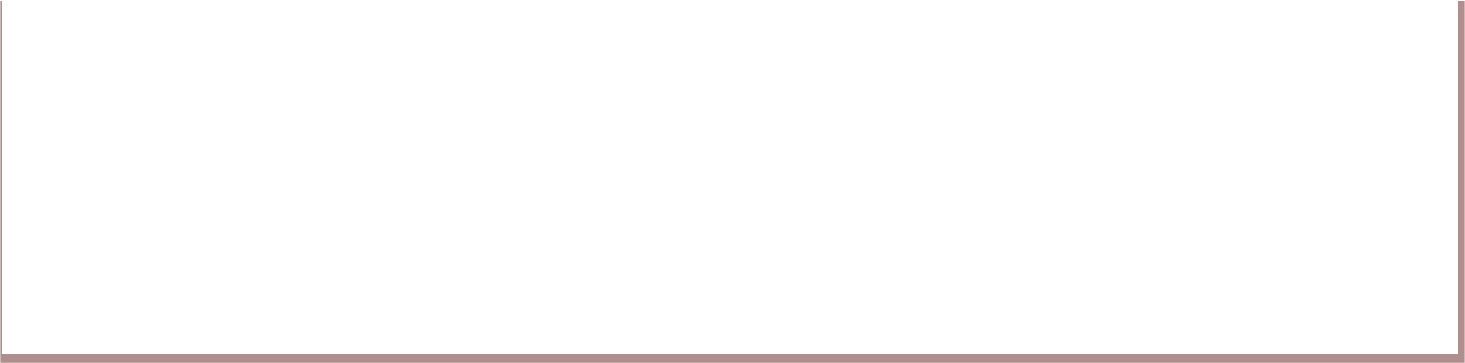
Syllabus

AFFILIATED COLLEGES

**Program Code: 21A**

**2022 – 2023 onwards**

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**BHARATHIAR UNIVERSITY**

**(A State University, Accredited with “A” Grade by NAAC, Ranked 13th among Indian Universities by MHRD - NIRF,**

**WorldRanking :Times –801 - 1000, Shanghai –901 - 1000, URAP - 1047)**

**Coimbatore - 641 046, TamilNadu, India**

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**ghujpahu; gy;fiyf;fofk;**

**(A State University, Accredited with “A” Grade by NAAC and**

**13th Rank among Indian Universities by MHRD-NIRF)**

**Nfhak;Gj;J}u; 641 046, ,e;jpah**

**ghlj;jpl;lf; FO**

**B.A.,& B.Litt**

|  |  |
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| **t.vz;** | **ngau; &Kftup** |
| **1** | **Kidtu; g.fkyf;fz;zd; (Chairperson)**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytH jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL–638004 |
| **2** | **Kidtu; Nf.fz;zd; (University Nominee)**  ,izg;Nguhrpupau;  jkpo;j;Jiw  = thrtp fy;Y}up><NuhL. |
| **3** | **Kidtu; vd;. ghyRg;gpukzpad; (Member)**  cjtpg; NguhrpupaH  jkpo;j;Jiw  rpf;fz;zh muR fiyf; fy;Y}up>jpUg;g+H |
| **4** | **Kidtu; I.me;Njhzpak;khs; (Member)**  cjtpg; Nguhrpupau;  jkpo;j;Jiw  gp\g; mk;Nuh]; fiy kw;Wk; mwptpay; fy;Y}up>  Nfhak;Gj;J}H. |
| **5** | **Kidtu; vg;.mGgf;fH (Member)**  cjtpg; Nguhrpau;>  jkpo;j;Jiw  muR fiyf; fy;Y}up> cLkiyg;Ngl;il. |
| **6** | **Kidtu; ,uh.n[ae;jp (Member)**  ,izg;Nguhrpupau;> jkpo;j;Jiw  g+.rh.Nfh fiy mwptpay; fy;Y}up>Nfhak;Gj;J}H. |
| **7** | **Kidtu; vk;.mDRahNjtp (Member)**  cjtpg; Nguhrpupau;  jkpo;j;Jiw  muR ngz;fs; fiyf; fy;Y}up> Nryk; 8. |
| **8** | **Kidtu; [p.Kj;Jyl;Rkp (Member)**  jiytH> jkpo;j;Jiw kw;Wk; Muha;r;rp ka;ak;.  jkpo;j;Jiw>muR fiy mwptpay; fy;Y}up> rpj;J}H ghyf;fhL. |
| **9** | **ftpQH kFNl];tud; (Member)**  vz; 24> gpuG efH>Kjy;njU ey;Y}H> jpUg;g+H. |
| **10** | **v];.rpthde;jd; (Member)**  267Æ1> cg;ghu tPjp Nfhak;Gj;J}H-641001 |
| **11** | **Kidtu; rPdpthrd; (Member)**  Kjy;tH>  muR fiyf; fy;Y}up> jpl;lkiy>  ek;gpa+H><NuhL |
| **12** | **Kidtu; vk;. ftpjh (Member)**  cjtpg; Nguhrpupau;  jkpo;j;Jiw  <NuhLfiy kw;Wk; mwptpay; fy;Y}up><NuhL. |
| **13** | **Kidtu; vk;.kjpaofd; (Member)**  cjtpg; Nguhrpupau;  jkpo;j;Jiw  muR fiyf; fy;Y}up> cLkiyg;Ngl;il. |
| **14** | **Kidtu; vd;.kzpfz;ld; (Member)**  cjtpg; Nguhrpupau;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL |
| **15** | **Kidtu; [p.kyHtpop (Member)**  ,izg; Nguhrpupau;  jkpo;j;Jiw  = thrtp fy;Y}up><NuhL. |

**,sq;fiy jkpo; ,yf;fpak;  
ghujpahu; gy;fiyf;fof ,izg;Gf; fy;Y}upfSf;Fupa ghlj;jpl;lk;**

**ghlj;jpl;;lk;**

**(2022 - 2023 Nru;NthUf;FupaJ)**

**ghlf;FwpaPl;L vz;:**



**ghujpahu; gy;fiyf;fofk;**

**(A State University, Accredited with “A“ Grade by NAAC and**

**13th Rank among Indian Universities by MHRD-NIRF)**

**Nfhak;Gj;J}u; 641 046>,e;jpah**

**ghujpahu; gy;fiyf;fofk;> Nfhak;Gj;J}u;**

**VISION: (தொலைநோக்கு)**

Imparting quality higher education to produce competent graduates capable of developing the nation by bringing out their creativity and literacy competence through Tamil Language and Literature

**MISSION : (குறிக்கோள்;)**

* To heighten the efficacy of interpreting literary texts in the contexts of Tamil society and Tamil culture
* To re-examine the pedagogical techniques used for literary studies through mother tongue
* To instill critical thinking and evaluating skills to transform students into effective researchers
* To upgrade the literary and linguistic competence of students by exposing them to literatures of varied eras

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| **Program Educational Objectives (PEOs)** | |
| The **B.A TAMIL** program describe accomplishments that graduates are expected to attain within five to seven years after graduation | |
| PEO1 | vOj;jhw;wy; kw;Wk; gilg;ghf;fj; jpwid ngw itj;jy; |
| PEO2 | ,yf;fpa eaq;fis mwpar; nra;jy; |
| PEO3 | nkhop ngau;g;G jpwid tsu;j;jy; |
| PEO4 | r%f khw;wj;jpw;fhd fhuzq;fisg; Gupa itj;jy; |
| PEO5 | fw;wypd; Gjpa njhopy;El;gj; jpwid tsu;j;jy; |
| PEO6 | gz;ghl;L czu;it Vw;gLj;Jjy; |
| PEO7 | rq;f fhy kf;fspd; tho;f;if epiyiamwpa itj;jy; |
| PEO8 | ehl;Lg;Gw kf;fspd; fiy tbtq;fis vLj;Jiuj;jy; |
| PEO9 | rpj;ju;fspd; MSikiaczu itj;jy; |
| PEO10 | muRg; Nghl;bj; Nju;Tfspy; gq;Nfw;Fk; jpwd; tsu;j;jy; |
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| **Program Specific Outcomes (PSOs)** | |
| After the successful completion of BA TAMIL program, the students are expected to | |
| PSO1 | ,yf;fpa ,yf;fz tifikfis mwpjy; |
| PSO2 | nkhop MSikj; jpwd; ngWjy; |
| PSO3 | nkhopngau;g;G fiyapy; Nkk;ghL cilatu;fshf jpfo;jy; |
| PSO4 | fy;ntl;Lfis thrpg;gjw;fhd jpwd; ngWjy; |
| PSO5 | fiyfspd; El;gq;fis czu;e;J nfhs;Sjy; |
| PSO6 | fzpdp El;gq;fis mwpjy; |
| PSO7 | ehlfj;jpd; nka;g;ghLfis mwpe;J nfhs;Sjy; |
| PSO8 | ,yf;fpa xg;gPl;Lj; jpwidg; ngWjy; |
| PSO9 | jpwdha;T Kiwapid mwpjy; |
| PSO10 | jkpoupd; gz;ghl;Lf; $Wfisj; njupe;Jf; nfhs;Sjy; |
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| **Program Outcomes (POs)** | |
| On successful completion of the B.A TAMILprogram | |
| PO1 | tho;f;if newpKiwia mwpe;J nfhs;Sjy; |
| PO2 | nkhop MSikg; ngWjy; |
| PO3 | r%f rpe;jidiag; ngWjy; |
| PO4 | ,yf;fpag; gilg;ghf;fj; jpwid tsu;j;jy; |
| PO5 | ehl;Lg; Gw kf;fspd; gz;ghl;il mwpjy; |
| PO6 | Rw;Wr;#oy; ghJfhg;gpd; mtrpaj;ij mwpe;J nfhs;Sjy; |
| PO7 | ,izaj;jsq;fspy; jkpo; nkhop ,lk; ngWk; epiyapidj; mwpjy; |
| PO8 | mfo;thuha;r;rp Fwpj;j rpe;jidfis tsu;j;jy; |
| PO9 | fhg;gpaq;fspd; top r%f mikg;gpid mwpjy; |
| PO10 | muR Nghl;bj; Nju;Tfspy; fye;J nfhs;Sk; jpwd; ngWjy; |
|  | |

**ghujpahu; gy;fiyf;fofk; : Nfhak;Gj;J}u; 641 046**

**BA TAMIL Curriculum (Affitiated college)**

*(For the students admitted during the academic year 2022 – 23 onwards)*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Course Code** | **Title of the Course** | **Credits** | **Hours** | | | **Maximum Marks** | | |
| **Theory** | **Practical** | | **CIA** | **CEE** | **Total** |
| **FIRST SEMESTER** | | | | | | | | |
|  | Language-1 | 4 | 6 |  | | 50 | 50 | 100 |
|  | English – 1 | 4 | 6 |  | | 50 | 50 | 100 |
| Core -I | ,yf;fpak; - 1 - jw;fhyf; ftpijfs; | 3 | 5 |  | | 30 | 45 | 75 |
| Core – II | ,yf;fpak; - 2 ciueil ,yf;fpak; | 3 | 5 |  | | 30 | 45 | 75 |
| Allied – I | jkpo; ,yf;fpa tuyhW -1 | 4 | 6 |  | | 50 | 50 | 100 |
|  | **Envirnomental Studies** | 2 | 2 |  | | - | 50 | 50 |
|  |  |  |  |  | |  |  |  |
| **Total** | | 20 |  | - | | - | - | 500 |
| **SECOND SEMESTER** | | | | | | | | |
|  | Language-II | 4 | 6 |  | | 50 | 50 | 100 |
|  | English-II | 4 | 6 |  | | 50 | 50 | 100 |
|  | Language Proficiency for Employability | 2 | 2 | - | | 25 | 25 | 50 |
|  |  |  |  |  | |  |  |  |
| Core – III | ,yf;fzk; - 1 ed;D}y; vOj;J | 4 | 5 |  | | 50 | 50 | 100 |
| Core – IV | fzpdpAk; ,izaKk; | 4 | 5 |  | | 50 | 50 | 100 |
| Allied-II | jkpo; ,yf;fpa tuyhW -2 | 4 | 6 |  | | 50 | 50 | 100 |
|  | **Value Education – Human Rights** | 2 | 2 |  | | - | 50 | 50 |
| **Total** | | 24 |  |  | |  |  | 600 |
| **THIRD SEMESTER** | | | | | | | | |
|  | Language-III | 4 | 6 |  | | 50 | 50 | 100 |
|  | English-III | 4 | 6 |  | | 50 | 50 | 100 |
|  | Microsoft Office Essentials  Microsoft (CSR)  All Branches Except CS / IT / BCA | 2 | 2 |  | | 25 | 25 | 50 |
| Core –V | ,yf;fzk; - 2 ed;D}y; nrhy; | 4 | 4 |  | | 50 | 50 | 100 |
| Core –VI | ,yf;fpak; - 3 gf;jp ,yf;fpaq;fSk; rpw;wpyf;fpaq;fSk; | 4 | 4 |  | | 50 | 50 | 100 |
| Allied -III | jkpof tuyhWk; gz;ghLk;-1 | 4 | 5 |  | | 50 | 50 | 100 |
| jpwd;gbg;G ghlk; - I | jkpo; gapw;Wk; Kiw Nehf;fk; | 3 | 3 |  | | 20 | 55 | 75 |
|  | **Tamil /Advanced Tamil (OR) Non-major elective-1 (yoga for Human Excellence) /Women’s Rights / Indian Constitution** | 2 | 2 |  | | - | 50 | 50 |
| **Total** | | 27 |  |  | |  |  | 675 |
| **FOURTH SEMESTER** | | | | | | | | |
|  | Language-IV | 4 | 6 |  | 50 | | 50 | 100 |
|  | English-IV | 4 | 6 |  | 50 | | 50 | 100 |
| Core – VII | ,yf;fzk; - 3 ahg;gUq;fyf;fhhpif (xopgpapy; ePq;fyhf) jz;bayq;fhuk; | 4 | 4 |  | 50 | | 50 | 100 |
| Core –VIII | ehl;Lg;Gwtpay; | 4 | 4 |  | 50 | | 50 | 100 |
| Allied - IV | jkpof tuyhWk; gz;ghLk;-2 | 4 | 5 |  | 50 | | 50 | 100 |
| jpwd; gbg;G ghlk; - II | nkhopg;gapw;rpfs; | 3 | 3 |  | 20 | | 55 | 75 |
|  |  |  |  |  |  | |  |  |
|  | **Tamil /Advanced Tamil (OR) Non-major elective-II (General Awarness )** | 2 | 2 |  | - | | 50 | 50 |
|  | **Total** | 25 |  |  |  | |  | 625 |
| **FIVTH SEMESTER** | | | | | | | | |
| Core – IX | ,yf;fzk; - 4 Gwg;nghUs; ntz;ghkhiy> ek;gpafg;nghUs; | 4 | 6 |  | | 50 | 50 | 100 |
| Core – X | fhg;gpaq;fs; | 4 | 6 |  | | 50 | 50 | 100 |
| XI | ,yf;fpaj; jpwdha;T | 4 | 6 |  | | 50 | 50 | 100 |
| Core –XII | nghJ nkhopapay; | 4 | 5 |  | | 50 | 50 | 100 |
| Elective –I | m) kf;fs; Clfj; njhlh;gpay;  M) ehlftpay;  ,) ,jopay; | 4 | 4 |  | | 50 | 50 | 100 |
| jpwd; gbg;G ghlk; - III | ,yf;fzk; | 3 | 3 |  | | 20 | 55 | 75 |
|  | Naan Mudhalvan | 2 | 2 |  | | 50 | 50 | 100 |
|  | Total | 25 |  |  | |  |  | 675 |
| **SIXTH SEMESTER** | | | | | | | | |
| Core – XIII | rq;f ,yf;fpak; - mfk; | 4 | 6 |  | | 50 | 50 | 100 |
| Core –XIV | rq;f ,yf;fpak; - Gwk; | 4 | 6 |  | | 50 | 50 | 100 |
| Core –XV | jkpo; nkhop tuyhW | 4 | 5 |  | | 50 | 50 | 100 |
| Elective -II | m) Ml;rpj;jkpo;  M) Nfhapy; fiyfs;  ,) ,e;jpaj; jj;Jtk; | 4 | 5 |  | | 50 | 50 | 100 |
| Elective  - III | m) nkhop ngah;g;gpay;  M) Rw;Wyhtpay;  ,) rpj;jH ghly;fs; | 4 | 5 |  | | 50 | 50 | 100 |
| jpwd;gbg;G -IV | ,yf;fpak; | 3 | 3 |  | | 20 | 55 | 75 |
|  | **Extension activites** | 2 | - |  | | 50 | - | 50 |
|  |  |  |  |  | |  |  |  |
|  | **Grand Total** | 25 |  |  | |  |  | 625 |
|  |  | 144 |  |  | |  |  | 3700 |
|  | **ONLINE COURSES** | | | | | | | |
|  |  |  |  |  | |  |  |  |
|  |  |  |  |  | |  |  |  |

**MARKS DISTRIBUTION (EXTERNAL(CEE) AND INTERNAL (CIA))**

1. **THEORY(Core/ Elective/ Allied Papers)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Max.**  **Marks** | **Comprehensive External Examinations (CEE)** | | **Continuous Internal Assessments**  **(CIA)** | | **Overall Passing Minimum**  **(Internal + External)** |
| **Max. Marks** | **Passing**  **Minimum** | **Max. Marks** | **Passing**  **Minimum** |
| 100 | 50 | 20 | 50 | 15 | 40 |
| 75 | 45 | 18 | 30 | 9 | 30 |

**Distribution of marks for CIA for Core/ Elective/ Allied Theory Papers**

**(Each student should attend at least one test)**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Component** | **Allotment of Internal Assessment marks for a maximum of** | |
| **50** | **30** |
| 1 | Tests (average of two tests of 2 hours each) | 15 | 10 |
| 2 | End semester model test (3 hours) | 15 | 10 |
| 3 | Assignments- 2 No.s/ Quiz/ Group discussion | 10 | 5 |
| 4 | Seminar | 5 | - |
| 5 | Attendance | 5 | 5 |

**Distribution of marks for attendance**

|  |  |
| --- | --- |
| **Attendance** | **Marks** |
| 90% and above | 5 |
| Between 85 and 90% | 4 |
| Between 80 and 85% | 3 |
| Between 75 and 80% | 2 |
| Between 70 and 75% | 1 |

**QUESTION PAPER PATTERN**

The following question paper patterns shall be followed for OBE pattern syllabi for the candidates admitted from the academic year 2022-23 wherever applicable otherwise provided in syllabi itself.

|  |  |  |  |
| --- | --- | --- | --- |
| **Maximum 50 Marks – wherever applicable** | | | |
| **SECTION A** | Multiple choice questions with four options | 10\*1=10 | 10 questions – 2 from each unit |
| **SECTION B** | Short answer questions of either / or type | 5\*3=15 | 5 questions – 1 from each unit |
| **SECTION C** | Essay-type questions of either / or type | 5\*5=25 | 5 questions – 1 from each unit |

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| --- | --- | --- | --- |
| **Maximum 45 Marks – wherever applicable** | | | |
| **SECTION A** | Multiple choice questions with four options | 10\*1=10 | 10 questions – 2 from each unit |
| **SECTION B** | Short answer questions of either / or type | 5\*2=10 | 5 questions – 1 from each unit |
| **SECTION C** | Essay-type questions of either / or type | 5\*5=25 | 5 questions – 1 from each unit |

The General Awareness paper to have multiple-choice questions(with four options) to be evaluatedby usingOMR.For other courses in Part IV namely, Environmental Studies, Value Education – Human Rights, Yoga for Human Excellence and Women’s Rights the question paper pattern should be 5 out of 10. Each question carries 10 marks.

**First**

**Semester**

**,sq;fiy - jkpo; ,yf;fpak;**

**Kjw; gUtk;**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | | **L** | | | **T** | **P** | | **C** |
| **Kjd;ikg; ghlk;** | | | | | | **jhs; - 1 jw;fhyf; ftpijfs;** | | **5** | | | **5** | **-** | | **3** |
|  | | | | | |  | | **ghlg;gpupT** | | | | |  | |
| ghl Nehf;fk; | | | | | | | | | | | | | | |
| 1. r%f khw;wj;jpy; GJf;ftpijapd; rpwg;ig vLj;Jiuj;jy;  2.r%f rpe;jidiaj; J}z;Ljy;  3.gilg;ghw;wy; MSikia tsu;j;jy; | | | | | | | | | | | | | | |
| gad;fs; | | | | | | | | | | | | | | |
| 1 | | | nkhop MSikj; jpwd; ngWjy; | | | | | | | | | K3 | | |
| 2 | | | r%f rpe;jidiag; ngWjy; | | | | | | | | | K4 | | |
| 3 | | | tho;tpay; njhlu;ghd mwr; rpe;jidfis mwpe;J nfhs;Sjy; | | | | | | | | | K2 | | |
| 4 | | | ftpij cUthf;Fk; jpwd; ngWjy; | | | | | | | | | K6 | | |
| 5 | | | fw;wYf;Fupa Gjpa njhopy; El;gq;fis mwpe;J nfhs;Sjy; | | | | | | | | | K5 | | |
| K1 - Remember; K2 - Undestand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create | | | | | | | | | | | | | | |
| myF:1 | | | | | jj;Jtk; -Rarpe;jid | | | | | 14 hours | | | | |
| ghujpahh; ftpijfs; - fz;zd; ghl;L> fz;zd; vd; Njhod;> fz;zd; vd; rPld;> fz;zd; vd; Nrtfd; | | | | | | | | | | | | | | |
| myF:2 | | | | | FLk;g mikg;G -md;G newp | | | | 14- hours | | | | | |
| ghujpjhrd;- FLk;g tpsf;F - KjpNahu; fhjy; | | | | | | | | | | | | | | |
| myF:3 | | | | | gz;ghL | | | | 15- hours | | | | | |
| fz;zjhrd; - ijg;ghit | | | | | | | | | | | | | | |
| myF:4 | | | | | Rw;Wr; #oy; | | | | 14- hours | | | | | |
| rpw;gp ghyRg;gpukzpak; - fz;zhb rpwFs;s xU gwit | | | | | | | | | | | | | | |
| myF:5 | | | | | r%fk; -ngz;zpak; | | | | 13- hours | | | | | |
| ,sk;gpiw -Kjy; kD\p | | | | | | | | | | | | | | |
| myF:6 | | | | | rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;>  Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy; | | | | 2- hours | | | | | |
|  | | | | | Total Lecture hours | | 72- hours | | | | | | | |
| **ghlEhy;fs;** | | | | | | | | | | | | | | |
| 1 | ghujpahu; ftpijfs>; kzpthrfu; gjpg;gfk;> nrd;id. | | | | | | | | | | | | | |
| 2 | ghujpjhrd; ftpijfs; ghup epiyak;> nrd;id. | | | | | | | | | | | | | |
| 3 | fz;zjhrd;- ijg;ghit> thdjp gjpg;gfk;> nrd;id. | | | | | | | | | | | | | |
| 4 | rpw;gp ghyRg;gpukzpak;> fz;zhbrpwFs;s XU gwit> ftpjh gjpg;gfk;> nrd;id. | | | | | | | | | | | | | |
| 5 | ,sk;gpiw> Kjy;kD\p> rhujp efu;>vd;/;gpy; mtd;A> kbg;ghf;fk;> nrd;id. | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | |
| 1 | ty;ypf;fz;zd;> GJf;ftpijapd; Njhw;wKk; tsu;r;rpAk;>ghupepiyak;> nrd;id. | | | | | | | | | | | | | |
| 2 | GJAff; ftpQd; ghujp> eQ;Rz;ld;> ,ay; gjpg;gfk;> jQ;rhT+u;. | | | | | | | | | | | | | |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] | | | | | | | | | | | | | | |
| 1 | | [www.tamilvu.org](http://www.tamilvu.org) | | | | | | | | | | | | |
| 2 | |  | | | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | S | M | M | M | M | L | M | M | S |
| **CO3** | S | M | M | S | M | S | M | M | M | M |
| **CO3** | M | M | M | L | M | M | M | M | S | M |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | M | M | S | M | M | L | M | M | S | M |
|  |  |  |  |  |  |  |  |  |  |  |

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

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| **ghlf;FwpaPl;L vz;** | | | | |  | | **ghlj;jiyg;G** | | | **L** | | | | **T** | | **P** | **C** |
| **Kjd;ikg;ghlk;** | | | | | | | jhs; - 2 ciueil ,yf;fpak; | | | **3** | | | | **-** | | **-** | **3** |
|  | | | | | | |  | | | **ghlg;gpupT** | | | | |  | | |
| **ghlNehf;fk;** | | | | | | | | | | | | | | | | | |
| 1. r%f rpe;jid Mw;wiy tsu;j;jy; 2. vOj;jhw;wy; jpwid cUthf;Fjy;  3. ,yf;fpaj;jpd; top mwptpay; rpe;jidfis czu;j;Jjy; | | | | | | | | | | | | | | | | | |
| **gad;fs;** | | | | | | | | | | | | | | | | | |
| 1 | tho;f;if rpf;fy;fis vjpu;nfhs;Sk; jpwidg; ngWjy; | | | | | | | | | | | | | | | K3 | |
| 2 | rpwe;j gilg;ghspahf cUthFjy; | | | | | | | | | | | | | | | K6 | |
| 3 | mbj;js kf;fspd; tho;f;if mDgtj;ijg; Gupe;J nfhs;Sjy; | | | | | | | | | | | | | | | K2 | |
| 4 | r%f khw;wq;fis czu;e;J nfhs;Sjy; | | | | | | | | | | | | | | | K5 | |
| 5 | muRg; Nghl;bj; Nju;tpy; fye;J nfhs;Sk; jFjpiag; ngWjy; | | | | | | | | | | | | | | | K1K4 | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create | | | | | | | | | | | | | | | | | |
| **myF:1** | | | | | | **ngz;zpak;** | | | | | | **14- hours** | | | | | |
| njh.gukrptd; - ehs; kyHfs; - ghit gg;spNf\d;]; | | | | | | | | | | | | | | | | | |
| **myF:2** | | | | | | **mwptpay; jkpo;** | | | | | **14-- hours** | | | | | | |
| Qhdp - ts;Stupd; mwtpaYk; mofpaYk;> nghd;dp gjpg;gfk; | | | | | | | | | | | | | | | | | |
| **myF:3** | | | | | | **Rw;Wr;#oy; ghJfhg;G** | | | **14-- hours** | | | | | | | | |
| Rg;gpughujpkzpad; - #oy; mwk;> epa+ nrQ;Rhp Gf;`T]; ntspaPL> | | | | | | | | | | | | | | | | | |
| **myF:4** | | | | | | **r%fk;** | | | **14- hours** | | | | | | | | |
| ehty; - fPjhup> R.jkpo;nry;tp epa+ nrQ;Rhp Gf;`T]; ntspaPL | | | | | | | | | | | | | | | | | |
| **myF:5** | | | | | | **r%fk;** | | **14-- hours** | | | | | | | | | |
| ehlfk; - rhgk;! tpNkhrdk;? –K. ,uhkRthkp> nrz;gfk; ,uhkRthkp>  epa+ nrQ;Rhp Gf;`T]; ntspaPL> nrd;id. | | | | | | | | | | | | | | | | | |
| **myF:6** | | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;.** | | | | | | | **2 hours** | | | | |
|  | | | | | | **Total Lecture hours** | | **72-- hours** | | | | | | | | | |
| **ghlE}y;fs;;** | | | | | | | | | | | | | | | | | |
| 3 | | | Rg;gpughujpkzpad; - #oy; mwk;> epa+ nrQ;Rhp Gf;`T]; ntspaPL> nrd;id. | | | | | | | | | | | | | | |
| 4 | | | ehty; - fPjhup> R.jkpo;nry;tp> epa+ nrQ;Rhp Gf;`T]; ntspaPL> nrd;id. | | | | | | | | | | | | | | |
| 5 | | ehlfk; - rhgk;! tpNkhrdk;? –K. ,uhkRthkp nrz;gfk; ,uhkRthkp> epa+ nrQ;Rhp Gf;`T]; ntspaPL> nrd;id. | | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;;** | | | | | | | | | | | | | | | | | |
| 1 | | | lhf;lh; K.tujuhrdhh; - ngz;ik tho;f> ghhpepiyak;> nrd;id | | | | | | | | | | | | | | |
| 2 | | | lhf;lh; th.nr.Foe;ijrhkp –ghujpapd; mwptpay; ghh;it> ghujp gjpg;gfk;> nrd;id. | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | | | |
| 1 | | | | [www.tamilvu.org](http://www.tamilvu.org) | | | | | | | | | | | | | |
| 2 | | | | [www.noolagam.com](http://www.noolagam.com) | | | | | | | | | | | | | |
| Course Designed By:: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | S | M | M | L | M | S | M | M | S |
| **CO3** | S | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | S | M | L | M | M | M | S |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | M | M | L | M | M | L | M | M | L | S |
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\*S-Strong; M-Medium; L-Low

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| **ghlf;FwpaPl;L vz;** | | | | | |  | | | | **ghlj;jiyg;G** | | | | | | | | | **L** | | | | | **T** | **P** | | | **C** |
| **Jizg;ghlk;** | | | | | | | | | | jkpo; ,yf;fpa tuyhW – 1 | | | | | | | | | **4** | | | | | **-** | **-** | | | **4** |
|  | | | | | | | | | |  | | | | | | | | | **ghlg;gpupT** | | | | | | |  | | |
| **ghlNehf;fk;** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. jkpo; nkhopapd; njhd;ikiaAk; ngUikiaAk; czu;j;jy; 2. nkhop mwpT ngwg; gaw;rp mspj;jy; 3. mw topr; rpe;jidfis tsu;j;jy; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **gad;fs;** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | jkpo; nkhopapd; Njhw;wk; Fwpj;J mwpjy; | | | | | | | | | | | | | | | | | | | | | K2 | | | |
| 2 | | | | rq;f fhy kf;fspd; tho;f;if epiyNahL ,d;iwa tho;f;ifiag; nghUj;jpg; ghu;j;jy; | | | | | | | | | | | | | | | | | | | | | K3 K5 | | | |
| 3 | | | | njhy;fhg;gpak; czu;j;Jk; tho;tpay; newpfis mwpjy; | | | | | | | | | | | | | | | | | | | | | K3 | | | |
| 4 | | | | fhg;gpaq;fs; top mwr;rpe;jidfis czu;jy; | | | | | | | | | | | | | | | | | | | | | K4 | | | |
| 5 | | | | muRg; Nghl;bj;Nju;T Fwpj;j tpopg;Gzu;Tg; ngWjy; | | | | | | | | | | | | | | | | | | | | | K3 K5 | | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:1** | | | | | | |  | | | | | | | | | | | | | | **13 hours** | | | | | | | |
| jkpopd; ,dpikAk; goikr; rpwg;Gk; - rq;f tuyhW – mfj;jpaKk; njhy;fhg;gpaKk; - rq;f ,yf;fpak; - gjpndz;fPo;f;fzf;F E}y;fs; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:2** | | | | | | |  | | | | | | | | | | | | | **14 hours** | | | | | | | | |
| gf;jp ,yf;fpak; - fhg;gpaq;fs; - ghuj E}y;fs; - fk;guhkhazk; - gpwGuhz E}y;fs; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:3** | | | | | | |  | | | | | | | | | | | **15 hours** | | | | | | | | | | |
| rpw;wpyf;fpaq;fs;- ,yf;fz E}y;fs; - ghl;bay; E}y;fs; - epfz;Lfs; - mfuhjpfs; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:4** | | | | | | |  | | | | | | | | | | | **14 hours** | | | | | | | | | | |
| rkzKk; jkpOk; - ngsj;jKk; jkpOk; - irtKk; jkpOk; - itztKk; jkpOk; - ,RyhKk; jkpOk; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:5** | | | | | | |  | | | | | | | | | | **14 hours** | | | | | | | | | | | |
| fpwp];jtKk; jkpOk; - rpj;jH ,yf;fpak; - ciuahrpupaHfs; - jkpo; tsHj;j rhd;NwhHfs; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:6** | | | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;.** | | | | | | | | | | | | | | | **2 hours** | | | | | | |
|  | | | | | | | **Total Lecture hours** | | | | | | | | | | **72 hours** | | | | | | | | | | | |
| **ghlEhy;** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | KidtH G.,e;jpuhfhe;jp> KidtH ngh. jpuhtpl kzp- jkpo; ,yf;;fpa tuyhW> epa+ nrQ;Rup Gf; `T];> nrd;id. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | K.tujuhrdhu; - jkpo; ,yf;fpa tuyhW> rhfpj;a mfhnjkp> nrd;id. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | f.Iag;gd; - jkpo; nkhop- ,yf;fpa tuyhW> Rgh gjpg;gfk;> nrd;id | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | Kidtu;Rgh\; re;jpuNgh\;> jkpo; ,yf;fpa tuyhW> ghitg; gjpg;gfk;> nrd;id 600014 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | nj.thRfp – jkpo; ,yf;fpa tuyhW> epA+ nrQ;Rup Gf; `T];> nrd;id | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | [www.tamilvu.org](http://www.tamilvu.org) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | [www.noolulagam.com](http://www.noolulagam.com) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Mapping with Programme Outcomes** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **COs** | | | | **PO1** | | | **PO2** | **PO3** | | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | | | | | | | **PO10** | | | |
| **CO1** | | | | M | | | M | M | | M | M | M | S | M | M | | | | | | | S | | | |
| **CO3** | | | | S | | | M | M | | L | M | L | M | M | M | | | | | | | M | | | |
| **CO3** | | | | M | | | M | M | | S | M | M | M | M | M | | | | | | | M | | | |
| **CO4** | | | | M | | | S | M | | M | L | M | M | L | M | | | | | | | M | | | |
| CO5 | | | | M | | | M | L | | M | M | S | M | M | S | | | | | | | L | | | |

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

SecondSemester

**,uz;lhk; gUtk;- II**

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | | | **L** | | | | **T** | **P** | | **C** |
| **Kjd;ikg;ghlk;** | | | | | | jhs; - 3 ed;D}y; - vOj;jjpfhuk; | | | **4** | | | |  | **-** | | **4** |
|  | | | | | |  | | | **ghlg;gpupT** | | | | | |  | |
| **ghl Nehf;fk;** | | | | | | | | | | | | | | | | |
| 1. jkpo; ,yf;fzj;jpd; njhd;ikia mwpjy; 2. jkpo; cr;rupg;Gj; jpwid tsu;j;jy; 3. nkhop Mw;wiy Nkk;gLj;Jjy; | | | | | | | | | | | | | | | | |
| **gad;fs; :** | | | | | | | | | | | | | | | | |
| 1 | | | jkpo; nkhopiag; gpioapy;yhky; NgrTk; vOjTk; mwpjy; | | | | | | | | | | | K3 | | |
| 2 | | | jkpo; vOj;Jf;fspd; gpwg;gpid mwpe;J nfhs;Sjy; | | | | | | | | | | | K1K2 | | |
| 3 | | | jkpo; ,yf;fz kugpid czu;e;J nfhs;Sjy; | | | | | | | | | | | K3 | | |
| 4 | | | nrhy;> nghUs; NtWghl;bid czu;jy; | | | | | | | | | | | K4 | | |
| 5 | | | Nghl;bj;Nju;Tfspy; fye;J nfhs;Sk; jpwidg; ngWjy; | | | | | | | | | | | K5 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | | | | **13 hours** | | | | | |
| ghapuk; | | | | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | | | **14 hours** | | | | | | |
| vOj;jpay; | | | | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | **15 hours** | | | | | | | | |
| gjtpay; | | | | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | **14 hours** | | | | | | | | |
| caphPw;Wg;Gzhpay; | | | | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | **14 hours** | | | | | | | | | |
| nka;aPw;Wg; Gzhpay;> cUG Gzhpay; | | | | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | | | | | **2 hours** | | | | |
|  | | | | | **Total Lecture hours** | | **72 hours** | | | | | | | | | |
| **ghlEhy;** | | | | | | | | | | | | | | | | |
| 1 | ed;D}y; - vOj;jjpfhuk; (fhz;bifAiu)> fof ntspaPL. | | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | | |
| 1 | kapiyehju; ed;Dhy; c.Nt.rhkpehija;au; E}y; epiyak;> nrd;id. | | | | | | | | | | | | | | | |
| 2 | jhNkhjud;.m - ed;Dhy; - %yKk; tpUj;jpAiuAk;> cyf jkpohuha;r;rp epWtdk;> nrd;id | | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | | |
| 1 | | [www.tamilvu.org](http://www.tamilvu.org) | | | | | | | | | | | | | | |
| Course Designed By:: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | M | M | M | M | M | S | M | M | S |
| **CO3** | S | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | S | M | M | M | M | M | M |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | M | M | L | M | M | S | M | M | S | L |
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\*S-Strong; M-Medium; L-Low

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| **ghlf;FwpaPl;L vz;** | | | | | |  | | | | **ghlj;jiyg;G** | | | | | | | | | **L** | | | | | **T** | **P** | | | **C** |
| **Kjd;ikg;ghlk;** | | | | | | | | | | fzpdpAk; ,izaKk;- jhs; - 4 | | | | | | | | | **4** | | | | | **-** | **-** | | | **4** |
|  | | | | | | | | | |  | | | | | | | | | **ghlg;gpupT** | | | | | | |  | | |
| **ghlNehf;fk;** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. jfty; njhlu;G rhjdq;fisg; gw;wp mwpar; nra;jy; 2. njhopy;El;g mwpit tsu;j;jy;. 3. fzpdp nkhopiaf; fw;Wf; nfhs;Sjy;. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **gad;fs;:** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | jfty; njhlu;Gr; rhjdq;fisg; gw;wpa gue;J gl;l mwpitg; ngWjy; | | | | | | | | | | | | | | | | | | | | | K4 | | | |
| 2 | | | | fzpg;nghwp Fwpj;j KOikahd mwpT ngWjy; | | | | | | | | | | | | | | | | | | | | | K3 K5 | | | |
| 3 | | | | Ntiytha;g;igg; ngWk; jpwd; miljy; | | | | | | | | | | | | | | | | | | | | | K3 | | | |
| 4 | | | | nkhop MSik ngwy; | | | | | | | | | | | | | | | | | | | | | K6 | | | |
| 5 | | | | jfty; njhlu;gpd; El;gj;jpid mwpjy; | | | | | | | | | | | | | | | | | | | | | K2 K1 | | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:1** | | | | | | |  | | | | | | | | | | | | | | **15 hours** | | | | | | | |
| fzpg;nghwp mwpKfk; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:2** | | | | | | |  | | | | | | | | | | | | | **13 hours** | | | | | | | | |
| fzpg;nghwp – cs;sPL fUtpfs; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:3** | | | | | | |  | | | | | | | | | | | **14 hours** | | | | | | | | | | |
| fzpdpapy; jkpOk; jkpo; nkd;nghUs;fSk; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:4** | | | | | | |  | | | | | | | | | | | **14 hours** | | | | | | | | | | |
| jkpo; ,izak; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:5** | | | | | | |  | | | | | | | | | | **14 hours** | | | | | | | | | | | |
| jkpo; ,izag; gad;ghLfs; kw;Wk; fw;gpj;jy; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:6** | | | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | | | | | | | | | | | | | **2 hours** | | | | | | |
|  | | | | | | | **Total Lecture hours** | | | | | | | | | | **72 hours** | | | | | | | | | | | |
| **ghlE}y;fs;** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | KidtH Jiu kzpfz;ld;> j.thdjp>jkpo;f;fzpdp ,izag; gad;ghLfs;>fkypdp gjpg;gfk;> jQ;rht+H - 613 102> %d;whk; gjpg;G 2021 | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | K.,sq;Nfhtd; - ,izak; fw;Nghk;| tay;ntsp gjpg;gfk;> fq;if nfhz;l NrhoGuk;> mupaY}H khtl;lk; | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | | Kidtu; ,y.Re;juk; - fzpdpj;jkpo;;> tpfld; gpuRuk;> nrd;id. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | Nguhrpupau; kjpaofd; - fzpdpj;jkpo; - Xu; mwpKfk;> ghup epiyak; nrd;id. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | [www.tamilvu.org](http://www.tamilvu.org) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Course Designed By:: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Mapping with Programme Outcomes** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **COs** | | | | **PO1** | | | **PO2** | **PO3** | | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | | | | | | | **PO10** | | | |
| **CO1** | | | | S | | | M | M | | L | M | M | S | M | M | | | | | | | S | | | |
| **CO3** | | | | S | | | M | M | | L | M | L | M | M | M | | | | | | | M | | | |
| **CO3** | | | | M | | | M | M | | M | L | M | M | M | M | | | | | | | M | | | |
| **CO4** | | | | M | | | S | M | | M | L | M | M | L | M | | | | | | | M | | | |
| CO5 | | | | M | | | M | S | | M | M | S | M | M | L | | | | | | | S | | | |
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\*S-Strong; M-Medium; L-Low

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj; jiyg;G** | | | **L** | | | | **T** | | **P** | **C** |
| **rhu;Gg;ghlk;** | | | | | | jhs; - 2 jkpo; ,yf;fpa tuyhW- 2 | | | **4** | | | | **-** | | **-** | **4** |
|  | | | | | |  | | | **ghlg;gpupT** | | | | |  | | |
| **ghl Nehf;fk;** | | | | | | | | | | | | | | | | |
| 1. jkpo; nkhopapd; njhd;ikia mwpa itj;jy; 2. ehfupfk; gz;ghl;bid tsu;j;jy; 3. Ntiytha;g;gpw;fhd fy;tpia toq;Fjy; | | | | | | | | | | | | | | | | |
| **gad;fs;:** | | | | | | | | | | | | | | | | |
| 1 | | | jkpo; nkhopapd; Njhw;wk; Fwpj;J mwpjy; | | | | | | | | | | | | KX | |
| 2 | | | rq;f fhy kf;fspd; tho;f;if epiyNahL ,d;iwa tho;f;ifiag; nghUj;jpg; ghu;j;jy; | | | | | | | | | | | | KX | |
| 3 | | | njhy;fhg;gpak; czu;j;Jk; tho;tpay; newpfis mwpjy; | | | | | | | | | | | | KX | |
| 4 | | | fhg;gpaq;fs; topmwnewp Kiwiaj; njupe;J nfhs;Sjy; | | | | | | | | | | | | KX | |
| 5 | | | muRg; Nghl;bj;Nju;T Fwpj;j tpopg;Gzu;itg; ngWjy; | | | | | | | | | | | | KX | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create | | | | | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | | | | **15 hours** | | | | | |
| ciueilj;jkpo; - 20Mk; E}w;whz;Lf; ftpQH(ftpij)- GJf;ftpij - `f;$(FWk;gh) - ehl;Lg;Gw ,yf;fpaq;fs; - ehlfj;jkpo; | | | | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | | | **14 hours** | | | | | | |
| rpWfij ,yf;fpak; - ehty; ,yf;fpak; - fbj ,yf;fpak; - gaz ,yf;fpak; - jpwdha;Tj; jkpo; | | | | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | **13 hours** | | | | | | | | |
| tho;f;if tuyhW ,yf;fpak; - xg;gpyf;fpak; - nkhopapay; - nkhop ngaHg;gpay; - mwptpay; jkpo; | | | | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | **14 hours** | | | | | | | | |
| fy;ntl;Lk; njhy;ypaYk; - Rtbapay; - ,jopay; - thndhyp - njhiyf;fhl;rp - jpiug;glk; | | | | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | **14 hours** | | | | | | | | | |
| fzpg;nghwp - ,izaKk; jkpOk; - ngz;zpak; - %d;whk; ghypdk; - jypj;jpak; | | | | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | | | | | **2 hours** | | | | |
|  | | | | | **Total Lecture hours** | | **72 hours** | | | | | | | | | |
| **ghlEhy;** | | | | | | | | | | | | | | | | |
| 1 | KidtH G. ,e;jpuhfhe;jp> KidtH ngh. jpuhtplkzp - jkpo; ,yf;fpa tuyhW –epa+ nrQ;Rup Gf; `T];. nrd;id | | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | | |
| 1 | Kidtu; r. Rgh\; re;jpuNgh\; - jkpo; ,yf;fpa tuyhW ghitg; gjpg;gfk; nrd;id 600014 | | | | | | | | | | | | | | | |
| 2 | f.Iag;gd; - jkpo; nkhop ,yf;fpa tuyhW>Rgh gjpg;gfk;> nrd;id | | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | | |
| 1 | | [www.tamilvu.org](http://www.tamilvu.org) | | | | | | | | | | | | | | |
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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | M | M | S | M | M | S | M | M | S |
| **CO3** | S | M | M | M | M | L | M | M | S | M |
| **CO3** | M | M | M | S | M | M | M | M | M | M |
| **CO4** | M | S | M | S | L | M | M | S | M | M |
| CO5 | M | M | L | M | M | S | M | M | S | L |
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\*S-Strong; M-Medium; L-Low

Third

Semester

**%d;whk; gUtk; - III**

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | | | **L** | | | **T** | **P** | **C** |
| **Kjd;ikg; ghlk;** | | | | | | ,yf;fzk; - 2 jhs; - ed;D}y;  nrhy;yjpfhuk; | | | **4** | | | **-** | **-** | **4** |
|  | | | | | |  | | | **ghlg;gpupT** | | | |  | |
| **ghl Nehf;fk; :** | | | | | | | | | | | | | | |
| 1. jkpo; ,yf;fzj;jpd; njhd;ikia mwpjy; 2. jkpo; cr;rupg;Gj; jpwid tsu;j;jy; 3. nkhop Mw;wiy Nkk;gLj;Jjy; | | | | | | | | | | | | | | |
| **gad;fs;:** | | | | | | | | | | | | | | |
| 1 | | | jkpo; nkhopiag; gpioapy;yhky; NgrTk; vOjTk; mwpjy; | | | | | | | | | | K1 | |
| 2 | | | nrhy; MSikia tsu;j;Jf; nfhs;sy; | | | | | | | | | | K3 | |
| 3 | | | nrhy; nghUs; NtWghl;bid czu;jy; | | | | | | | | | | K4 | |
| 4 | | | jkpo; nkhopapd; nrhy; jpwk; mwpe;J nfhs;Sjy; | | | | | | | | | | K5 | |
| 5 | | | Nghl;bj; Nju;Tfspy; fye;J nfhs;Sk; jpwidg; ngWjy; | | | | | | | | | | K5 | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | | | | **13 hours** | | | |
| ngahpay; | | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | | | **14 hours** | | | | |
| tpidapay; | | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | **15 hours** | | | | | | |
| ,ilapay; | | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | **14 hours** | | | | | | |
| chpapay; | | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | **14 hours** | | | | | | | |
| nghJtpay; | | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | | | **2 hours** | | | | |
|  | | | | | **Total Lecture hours** | | **72 hours** | | | | | | | |
| **ghl E}y;** | | | | | | | | | | | | | | |
| 1 | ed;D}y; - nrhy;yjpfhuk; (fhz;bifAiu) fof ntspaPL | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | |
| 1 | kapiyehju; - ed;D}y; -c.Nt.rhkpehj ma;au; E}y; epiyak;> nrd;id. | | | | | | | | | | | | | |
| 2 | jhNkhjud;. m- ed;D}y;> %yKk; tpUj;jpAiuAk;> cyfj;jkpohuha;r;rp epWtdk;> nrd;id. | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | |
| 1 | | [www.tamilvu.org](http://www.tamilvu.org) | | | | | | | | | | | | |
| Course Designed By:: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | M | M | M | M | M | S | M | M | S |
| **CO3** | S | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | S | M | M | M | M | M | M |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | M | M | L | M | M | S | M | M | S | L |
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\*S-Strong; M-Medium; L-Low

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | | **L** | | | | **T** | **P** | | **C** |
| **Kjd;ikg;ghlk;** | | | | | | ,yf;fpak; - 3 jhs; - 6  gf;jp ,yf;fpaq;fSk; rpw;wpyf;fpaq;fSk; | | **4** | | | | **-** | **-** | | **4** |
|  | | | | | |  | | **ghlg;gpupT** | | | | |  | | |
| **ghl Nehf;fk;:** | | | | | | | | | | | | | | | |
| 1. gf;jp newpapd; jd;ikia czu;j;Jjy; 2. ehad;khu;fs;> Mo;thu;fspd; gf;jpr; rpwg;ig mwpar; nra;jy; 3. rpw;wpyf;fpa tifikfis vLj;Jiuj;jy; | | | | | | | | | | | | | | | |
| **gad;fs; :** | | | | | | | | | | | | | | | |
| 1 | | | rkaq;fspd; top tho;tpay; newpKiwfis czu;jy; | | | | | | | | | | | K2 | |
| 2 | | | itzt rkaj;jpd; topghl;L Kiwiaj;njupe;J nfhs;Sjy; | | | | | | | | | | | K1 | |
| 3 | | | ,];yhkpa rkaf; fUj;Jf;fs; top tho;tpay; rhu;e;j fUj;Jfis mwpjy; | | | | | | | | | | | K3 | |
| 4 | | | ehlfg; ghq;fpid gs;S> FwtQ;rp ,yf;fpaq;fs; top czu;jy; | | | | | | | | | | | K5 | |
| 5 | | | rka topg;ghl;L Kiwfis mwpe;J nfhs;Sjy; | | | | | | | | | | | K3 | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | | | | **15 hours** | | | | |
| Njthuk; - jpUQhdrk;ge;jh; - “jpUezh”vd;W njhlq;Fk; gjpfk; (10 ghly;fs;)  jpUehTf;furh; - “mupahid me;jzu; jk;”vdj; njhlq;Fk; gjpfk; (10 ghly;fs;)  Re;juh; - “rpWGf; nfhspA+u;”vd;W njhlq;Fk; gjpfk; (10 ghly;fs;)  khzpf;fthrfu; - “jpUr;rhoy;” vd;W njhlq;Fk; gjpfk; (20 ghly;fs;) | | | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | | | **14 hours** | | | | | |
| ngupaho;thu; jpUnkhop –“fz;zd; jpUNkdp moF”(20 ghly;fs;)  ek;kho;thu; - jpUtha;nkhop –“tPLkpd;” vdj; njhlq;Fk; gjpfk; (Kjy; gj;J)  jpUkopiraho;thu; - “ehd;Kfd; jpUte;jhjp”(Kjy; 30 ghly;fs;) | | | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | | **13 hours** | | | | | | |
| ckHfa;ahk; ghly;fs; - GtpauR nkhopngaHg;G | | | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | | **14 hours** | | | | | | |
| Kf;$lw;gs;S-%d;whtJ gFjp -kio tsk; | | | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | **14 hours** | | | | | | | | |
| jpUf;Fw;whyf; FwtQ;rp | | | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | | | **2 hours** | | | | | |
|  | | | | | **Total Lecture hours** | | **72 hours** | | | | | | | | |
| **ghl E}y;fs;** | | | | | | | | | | | | | | | |
| 1 | Njthuk; - kzpthrfu; gjpg;gfk;> nrd;id | | | | | | | | | | | | | | |
| 2 | ehyhapuj; jpt;a gpuge;jk; - tu;j;jkhdd; gjpg;gfk;> nrd;id | | | | | | | | | | | | | | |
| 3 | Fzq;Fb k];jhd; rhfpG ghly;fs; - Ky;iy epiyak;> nrd;id. | | | | | | | | | | | | | | |
| 4 | Kf;$lw;gs;S–ghup epiyak;> nrd;id | | | | | | | | | | | | | | |
| 5 | jpup$l uhrg;gf; ftpuhau; - jpUf;Fw;whyf; FwtQ;rp> ghup epiyak;> nrd;id | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | |
| 1 | ,uh.re;jpuNrfud; - jkpo;r; rpw;wpyf;fpaq;fs;> ehk; jkpou; gjpg;gfk;> nrd;id | | | | | | | | | | | | | | |
| 2 | e.tP.n[auhkd; - rpw;wpyf;fpar; nry;tq;fs;> kzpthrfu; E}yfk;> rpjk;guk; | | | | | | | | | | | | | | |
| 3 | e.tP.n[auhkd; - rpw;wpyf;fpaj; jpwdha;T> ,yf;fpag; gjpg;gfk;> nrd;id | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | |
| 1 | | [www.tamilvu.org](http://www.tamilvu.org) | | | | | | | | | | | | | |
| 2 | | [www.chennailibrary.com](http://www.chennailibrary.com) | | | | | | | | | | | | | |
| Course Designed By:: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | M | M | M | M | M | S | M | M | S |
| **CO3** | S | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | S | M | M | M | M | M | M |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | M | M | L | M | M | S | M | M | S | L |
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\*S-Strong; M-Medium; L-Low

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| ghlf; FwpaPl;L vz; | | | |  | | **ghlj;jiyg;G** | | | **L** | | | **T** | | **P** | **C** |
| **tpUg;gg;ghlk;** | | | | | | jhs;-1-jkpof tuyhWk; gz;ghLk; - **I** | | | **4** | | | **-** | | **-** | **4** |
|  | | | | | |  | | | **ghlg;gpupT** | | | |  | | |
| **ghl Nehf;fk;:** | | | | | | | | | | | | | | | |
| 1. jkpofj;jpd; Kr;rq;fq;fs; Fwpj;J mwpjy; 2. gz;ila jkpoupd; tho;f;if Kiwiaj; njupe;J nfhs;Sjy; 3. njhy;ypay; njhlu;ghd nra;jpfis mwpar; nra;jy; | | | | | | | | | | | | | | | |
| **gad;fs;:** | | | | | | | | | | | | | | | |
| 1 | | | jkpofj;jpd; ,aw;if mikg;G Fwpj;J mwpjy; | | | | | | | | | | | K2 | |
| 2 | | | gz;ilj; jkpou;fspd; may;ehl;L thzpgj; njhlu;ig mwpe;J nfhs;Sjy; | | | | | | | | | | | K1 | |
| 3 | | | mfo;thuha;r;rp Fwpj;j rpe;jidiag; ngWjy; | | | | | | | | | | | K4 | |
| 4 | | | murpay; epiyiaAk; r%f epiyiaAk; czu;jy; | | | | | | | | | | | K5 | |
| 5 | | | muR Ntiytha;g;Gf;fhd jpwidg; ngWjy; | | | | | | | | | | | K3  K6 | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | | | | **15 hours** | | | | |
| jkpof tuyhw;Wf;fhd mbg;gil Mjhuq;fs;>jkpofj;jpd; ,aw;if mikg;G -tuyhw;Wf; fhyj;jpw;F Ke;ija jkpofk; | | | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | | | **14 hours** | | | | | |
| rpe;Jntsp mfo;thuha;r;rp -gz;ilj; jkpoh; may;ehl;Lj; njhlh;Gfs; | | | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | **13 hours** | | | | | | | |
| jkpo; tsh;j;j rq;fk; - rq;f ,yf;fpak; - gz;ilj; jkpoh; tho;f;if | | | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | **14 hours** | | | | | | | |
| fsg;gpuh;fs; - gy;yth;fs; | | | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | **14 hours** | | | | | | | | |
| jkpofj;jpy; ehd;F Kjy; xd;gjhk; E}w;whz;L tiu r%f epiy | | | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | **2 hours** | | | | | | | | |
|  | | | | | **Total Lecture hours** | | **72 hours** | | | | | | | | |
| **ghl E}y;** | | | | | | | | | | | | | | | |
| 1 | jkpof tuyhWk; gz;ghLk;> Nf.Nf.gps;is> cyfj; jkpohuha;r;rp epWtdk;> nrd;id | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | |
| 1 | Nt.jp.nry;yk;> jkpof tuyhWk; gz;ghLk;> kzpthrfu; gjpg;gfk;> nrd;id | | | | | | | | | | | | | | |
| 2 | m.jl;rzh%u;j;jp> jkpou; ehfuPfKk; gz;ghLk;>aho; ntspaPL> nrd;id | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | |
| 1 | |  | | | | | | | | | | | | | |
| 2 | |  | | | | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | M | M | M | M | M | S | M | M | S |
| **CO3** | S | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | S | M | M | M | M | M | M |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | M | M | L | M | M | S | M | M | S | L |
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\*S-Strong; M-Medium; L-Low

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj; jiyg;G** | | | **L** | | | **T** | **P** | | **C** |
| **jpwd; gbg;G** | | | | | | jhs; - 1 jkpo; gapw;Wk; Kiw **–** Nehf;fk; | | | **3** | | | **-** | **-** | | **3** |
|  | | | | | |  | | | **ghlg;gpupT** | | | | |  | |
| **ghl Nehf;fk;:** | | | | | | | | | | | | | | | |
| 1. jha;nkhopapd; ,d;wpaikahikia czu;j;Jjy; 2. jha;nkhop mwpT>nkhopg;gw;wpa rpe;jidg; ngw itj;jy; 3. jkpofj;jpd; murpay; Nghf;if mwpar; nra;jy; | | | | | | | | | | | | | | | |
| **gad;fs;:** | | | | | | | | | | | | | | | |
| 1 | | | jha;nkhopapy; njspthfg; NgrTk; vOjTk; mwpjy; | | | | | | | | | | K3 | | |
| 2 | | | gilg;ghw;wy; jpwd; ngWjy; | | | | | | | | | | K6 | | |
| 3 | | | vOj;jhw;wy; jpwid tsu;j;Jf; nfhs;Sjy; | | | | | | | | | | K4 | | |
| 4 | | | nkhop mwpT> nkhopg;gw;W Vw;gLjy; | | | | | | | | | | K5 | | |
| 5 | | | muRg; Nghl;bj; Nju;tpy; fye;J nfhs;Sk; jpwidg; ngWjy; | | | | | | | | | | K6 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | | | | **15 hours** | | | | |
| kdjpy; cs;stw;iw ntspaply; - ,yf;fpa tbtk; cUthjy; - ,yf;fpak; nghUSzh;jy; - ghl;Lk; - ciueilAk; - rq;f ,yf;fpa tbtKk; fl;likg;Gk; - etPd ,yf;fpaq;fspd; tbtKk; fl;likg;Gk;. | | | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | | | **14 hours** | | | | | |
| nkhop vd;gJ vd;d? - jha;nkhop – fUj;Jj;njspT – rpe;jid Mw;wy;- Ma;T kdg;ghd;ik –gz;ghL – fw;gidj;jpwd; - KUfpay; czh;T – gilg;ghw;wy; | | | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | **13 hours** | | | | | | | |
| Nfl;ly; jpwd; - NgRjy; jpwd; - gbj;jy; jpwd; - vOJjy; jpwd; - nkhopAk; rpe;jidAk;. | | | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | **14 hours** | | | | | | | |
| nra;As; fw;wypy; xOq;F –xOf;fj;ij mwpjy; - vJif> Nkhid> ,iaG> Kuz; czh;e;J ,d;GWjy; - Fwpf;Nfhs; tho;f;ifiaf; filgpbj;jy; - nrhy;yhl;rpj;jpwid tsh;j;jy; - Gythpd; cl;fplf;ifia mwpjy; - kdpj Neak; - kdpj chpik –md;G> ghrk;> el;G> njhz;L> ghpT> ,aw;if> Nghw;wy; Mfpa czh;Tfis tsh;j;jy; - ehl;Lg;gw;W> nkhopg;gw;W tsh;j;jy; - cyfj;NjhL xl;b thof;fw;wy;- fiy fiyf;fhNt kw;Wk; tho;f;iff;fhfNt vd mwpjy;. | | | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | **14 hours** | | | | | | | | |
| rpWfij vOJjy; gapw;rp –ftpij vOJjy; gapw;rp –fUj;jpay; - tuyhW –jd; tuyhW –tUzid –mwptpay; - r%ftpay; fl;Liu vOJjy; gapw;rp. | | | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | | | **2 hours** | | | | | |
|  | | | | | **Total Lecture hours** | | **72 hours** | | | | | | | | |
| **ghl E}y;** | | | | | | | | | | | | | | | |
| 1 | e.Rg;Gnul;bahu; - jkpo; gapw;Wk; Kiw – nka;ag;gd; gjpg;gfk;> rpjk;guk; | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | |
| 1 | rutz MWKf Kjypahh;> - jkpo; gapw;Wk; Kiwfs;>G+uk; gjpg;gfk;> jpUepd;wT+u;> 602024 | | | | | | | | | | | | | | |
| 2 | fp.th. [fe;ehjd; - ftp ghlyhk; - kzpthrfh; gjpg;gfk;> nrd;id. | | | | | | | | | | | | | | |
| 3 | K.Rje;jpuKj;J - gilg;Gfs; - RtL gjpg;gfk;> nrd;id – 24. | | | | | | | | | | | | | | |
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| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | |
| 1 | | www.tamilvu.org | | | | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | M | M | M | M | M | S | M | M | S |
| **CO3** | S | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | S | M | M | M | M | M | M |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | M | M | L | M | M | S | M | M | S | L |
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\*S-Strong; M-Medium; L-Low

Fourth

Semester

**ehd;fhk; gUtk; - IV**

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj; jiyg;G** | | | **L** | | | **T** | **P** | | **C** |
| **Kjd;ikg; ghlk;** | | | | | | ,yf;fzk; - 3 jhs; - 7 ahg;gUq;fyf;fhhpif (xopgpay; ePq;fyhf) jz;bayq;fhuk; | | | **4** | | | **-** | **-** | | **4** |
|  | | | | | |  | | | **ghlg;gpupT** | | | | |  | |
| **ghl Nehf;fk; :** | | | | | | | | | | | | | | | |
| 1. ahg;gpyf;fzj;jpd; rpwg;ig vLj;Jiuj;jy; 2. nra;As; cWg;Gfisf; fz;lwpjy; 3. nrhy;> nghUs; fl;likg;Gfis tiuaWj;jy; | | | | | | | | | | | | | | | |
| **gad;fs;:** | | | | | | | | | | | | | | | |
| 1 | | | kuGf;ftpij vOJjy; | | | | | | | | | | K6 | | |
| 2 | | | gh> ghtpdq;fs; gw;wpj; njupe;J nfhs;sy; | | | | | | | | | | K2 | | |
| 3 | | | mzp ,yf;fzj;jpd; njhd;ikia mwpjy; | | | | | | | | | | K1  K4 | | |
| 4 | | | mzp ,yf;fzk; nra;Aspd; ,lk;ngWk; jd;ikia czu;jy; | | | | | | | | | | K4 | | |
| 5 | | | fhg;gpa ,yf;fzk; gw;wp mwpjy; | | | | | | | | | | K2 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | | |
| **myF : 1** | | | | |  | | | | | | **13 hours** | | | | |
| cWg;gpay; - nra;Aspay; | | | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | | | **14 hours** | | | | | |
| Mrphpag;gh> tQ;rpg;gh | | | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | **14 hours** | | | | | | | |
| ntz;gh> kUl;gh | | | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | **15 hours** | | | | | | | |
| fypg;gh | | | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | **14 hours** | | | | | | | | |
| jz;bayq;fhuk;  1. ctikazp(24)  2. Ritazp(8)  3. rpNyilazp (2)  4. jd;ikazp(4)  5. gpd;tUepiyazp(KOtJk;)  6. jw;Fwpg;Ngw;wzp(2) | | | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | | | **2 hours** | | | | | |
|  | | | | | **Total Lecture hours** | | **72 hours** | | | | | | | | |
| **ghl E}y;fs;** | | | | | | | | | | | | | | | |
| 1 | mkpu;j rhfuh; - ahg;gUq;fyf;fhupif>fof ntspaPL> nrd;id | | | | | | | | | | | | | | |
| 2 | jz;b - jz;bayq;fhuk; - fof ntspaPL> nrd;id | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | |
| 1 | Gytu; Foe;ij - ahg;gjpfhuk; - nfsuh gjpg;gfk;> nrd;id. | | | | | | | | | | | | | | |
| 2 | fp.th.[fehjd; - ftpghlyhk; - rPij gjpg;gfk;> nrd;id. | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | |
| 1 | | [www.tamilvu.org](http://www.tamilvu.org) | | | | | | | | | | | | | |
| Course Designed By:: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | S | M | M | ML | M | M | M | M | L |
| **CO3** | S | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | M | S | M | M | L | M | M |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | M | M | M | S | M | S | M | M | L | S |
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\*S-Strong; M-Medium; L-Low

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| **ghlf;FwpaPl;L vz;** | | | |  | **ghlj; jiyg;G** | | **L** | | | **T** | **P** | | **C** |
| **Kjd;ikg; ghlk;** | | | | | jhs; - 8 ehl;Lg;Gwtpay; | | **4** | | | **-** | **-** | | **4** |
|  | | | | |  | | **ghlg;gpupT** | | | | |  | |
| **ghl Nehf;fk; :** | | | | | | | | | | | | | |
| 1. ehl;Lg;Gw kf;fspd; tuyhw;iw mwpa itj;jy; 2. ehl;Lg;Gwg; ghly;fspd; top tho;tpay; cz;ikfis czh;j;Jjy; 3. ehl;Lg;Gwf; fiyfis tsu;j;jy; | | | | | | | | | | | | | |
| **gad;fs;:** | | | | | | | | | | | | | |
| 1 | | | ehl;Lg;Gwg;ghly;fspd; tbtq;fisg; Gupe;J nfhs;Sjy; | | | | | | | | K2 | | |
| 2 | | | fij> fijg;ghly;fspd; thapyhf gz;ilj;jkpou;fspd; tho;f;if Kiwia mwpjy; | | | | | | | | K4 | | |
| 3 | | | ehl;Lg;Gw kf;fspd; gz;ghL kw;Wk; gof;ftof;fq;fisj; njupe;Jnfhs;Sjy; | | | | | | | | K3  K5 | | |
| 4 | | | ek;gpf;iffs; %ykhf ehl;Lg;Gw kf;fspd; kdczu;Tfis mwpe;J nfhs;Sjy; | | | | | | | | K5 | | |
| 5 | | | ehl;Lg;Gw kf;fspd; r%f #oiy czu;jy; | | | | | | | | K2 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | |
| **myF:1** | | | |  | | | | | **15 hours** | | | | |
| nghJg;gFjp ehl;Lg;Gwtpay; - ehl;Lg;Gwg; ghly;fs; - ehl;Lg;Gwf; fijfs; | | | | | | | | | | | | | |
| **myF : 2** | | | |  | | | | **13 hours** | | | | | |
| rpwg;Gg; gFjp –ehl;Lg;Gwf; fijg;ghly;fs; - gonkhopfs; - tpLfijfs;. | | | | | | | | | | | | | |
| **myF:3** | | | |  | | | | **14 hours** | | | | | |
| rpwg;Gg;gFjp –ehl;Lg;Gwf; fiyfs; - ehl;Lg;Gw ,ir –ehl;Lg;Gw iftpidg; nghUl;fs; - ehl;Lg;Gw tpisahl;Lf;fs; - ehl;Lg;Gwj; nja;tq;fs; - ehl;Lg;Gwj; jpUtpohf;fs; - ehl;Lg;Gw ek;gpf;iffs;. | | | | | | | | | | | | | |
| **myF:4** | | | |  | | | | **14 hours** | | | | | |
| fs Ma;TKiw –ehl;Lg;Gw ,yf;fpaKk; vOj;jpyf;fpaKk; - ehl;Lg;Gwtpay; Ma;Tf; Nfhl;ghLfSk; - ehl;Lg;GwtpaYk; gpwtpaYk;. | | | | | | | | | | | | | |
| **myF:5** | | | |  | | | | **14 hours** | | | | | |
| ehl;Lg;Gwtpay; fhl;Lk; rKjhak; - ehl;Lg;Gwtpaypd; tuyhW - ,e;jpa ehl;Lg;Gwtpaypd; tuyhW –jkpof ehl;Lg;Gwtpaypd; tuyhW. | | | | | | | | | | | | | |
| **myF:6** | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | | **2 hours** | | | | | |
|  | | | | **Total Lecture hours** | | **72 hours** | | | | | | | |
| **ghl E}y;** | | | | | | | | | | | | | |
| 1 | R.rz;KfRe;juk; - ehl;Lg;Gwtpay; - fht;ah ntspaPL> nrd;id-24. | | | | | | | | | | | | |
| **ghu;it E}y;fs; :** | | | | | | | | | | | | | |
| 1 | gh.uh.Rg;gpukzpad;> jkpof ehl;Lg;Gwg; ghly;fs;> jkpo;g; Gj;jfhyak;> nrd;id | | | | | | | | | | | | |
| 2 | gh.fpUl;bzrhkp– nfhq;F ehl;Lg;Gwg;ghly;fs;. kf;fs; ntspaPL> nrd;id | | | | | | | | | | | | |
| 3 | MW.,uhkehjd; - jkpou; fiy ,yf;fpa kuGfs;> nka;ag;gd; gjpg;gfk;> rpjk;guk; | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | |
| 1 | |  | | | | | | | | | | | |
| 2 | |  | | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | S | M | L | M | M | M | M | M | L |
| **CO3** | S | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | L | M | M | S | M | M | M |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | S | M | L | M | M | L | M | M | M | S |
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\*S-Strong; M-Medium; L-Low

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | | **L** | | | **T** | **P** | | **C** |
| **tpUg;gg;ghlk;** | | | | | | jhs; - 2 jkpof tuyhWk; gz;ghLk; - **II** | | **54** | | |  | **-** | | **4** |
|  | | | | | |  | | **ghlg;gpupT** | | | | |  | |
| **ghl Nehf;fk;** | | | | | | | | | | | | | | |
| 1. jkpo; nkhopapd; njhd;ikia mwpa itj;jy; 2. %Nte;ju;fspd; rpwg;ig vLj;Jiuj;jy; 3. njhy;ypay; njhlu;ghd nra;jpfis czu;j;Jjy; | | | | | | | | | | | | | | |
| **gad;fs;:** | | | | | | | | | | | | | | |
| 1 | | | jkpofj;jpd; murpay;> r%f epiy czu;jy; | | | | | | | | | K2 | | |
| 2 | | | gz;ila thzpgj; njhlu;ig mwpjy; | | | | | | | | | K2 | | |
| 3 | | | mfo;thuha;r;rp Fwpj;j mwpitg; ngWjy; | | | | | | | | | K4 | | |
| 4 | | | INuhg;gpaupd; tUifahy; cz;lhd khw;wk; Fwpj;J mwpjy; | | | | | | | | | K5 | | |
| 5 | | | muRg; Nghl;bj; Nju;T Fwpj;j tpopg;Gzu;itg; ngWjy; | | | | | | | | | K1  K3 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | |
| **myF : 1** | | | | |  | | | | | **15 hours** | | | | |
| Nrhog; Nguurpd; Njhw;wk; - tsh;r;rp –tPo;r;rp | | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | | **13 hours** | | | | | |
| Nrhoh; fhyj;Jr; rKjhak; | | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | | **14 hours** | | | | | |
| ghz;bah; Vw;wKk; tPo;r;rpAk; | | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | | **14 hours** | | | | | |
| jkpofj;jpy; 13-Mk; E}w;whz;L Kjy; 18-Mk; E}w;whz;L tiuahd r%fepiy | | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | | | **14 hours** | | | | | |
| INuhg;gpah; tUif Kjy; ,d;W tiu | | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | | **2 hours** | | | | | |
|  | | | | | **Total Lecture hours** | | **72 hours** | | | | | | | |
| **ghl E}y;fs;** | | | | | | | | | | | | | | |
| 1 | Nf.Nf. gps;is - jkpof tuyhWk; gz;ghLk;>cyfj; jkpouha;r;rp epWtdk;> nrd;id | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | |
| 1 | Nt.jp.nry;yk;> jkpof tuyhWk; gz;ghLk;> kzpthrfu; gjpg;gfk;> nrd;id | | | | | | | | | | | | | |
| 2 | m.jl;rzh%u;j;jp. jkpou; ehfupfKk; gz;ghLk;>aho; ntspaPL> nrd;id | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | |
| 1 | |  | | | | | | | | | | | | |
| 2 | |  | | | | | | | | | | | | |
| Course Designed By:: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | M | M | M | M | M | S | M | M | S |
| **CO3** | S | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | S | M | M | M | M | M | M |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | M | M | L | M | M | S | M | M | S | L |
|  |  |  |  |  |  |  |  |  |  |  |

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

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| **ghlf;FwpaPl;Lvz;** | | | |  | | **ghlj;jiyg;G** | | | **L** | | | **T** | **P** | **C** |
| **jpwd; gbg;G** | | | | | | jpwd;gbg;G **–** 2 nkhopg;gapw;rp | | | **3** | | | **-** | **-** | **3** |
|  | | | | | |  | | | **ghlg;gpupT** | | | |  | |
| **ghl Nehf;fk;:** | | | | | | | | | | | | | | |
| 1. jha;nkhopapd; ,d;wpaikahikia czu;j;Jjy; 2. jha; nkhop mwpT ngw itj;jy; 3. jha;nkhop fy;tp %yk; gilg;ghf;fj; jpwid cUthf;Fjy; | | | | | | | | | | | | | | |
| **gad;fs;:** | | | | | | | | | | | | | | |
| 1 | | | jha;nkhopapy; njspthf NgrTk; vOjTk;; Mw;wy; ngWjy; | | | | | | | | | | K5 | |
| 2 | | | gilg;ghw;wy; jpwd; kw;Wk; nkhop MSik tsu;jy; | | | | | | | | | | K6 | |
| 3 | | | vOj;jhw;wy; jpwid miljy; | | | | | | | | | | K3 | |
| 4 | | | nkhopg;gw;Wk; nkhop mwpTk; Vw;gLjy; | | | | | | | | | | K4 | |
| 5 | | | muRg; Nghl;bj; Nju;Tfspy; fye;Jnfhs;Sk; jpwd; ngWjy; | | | | | | | | | | K1  K3 | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | | | | **15 hours** | | | |
| epWj;jw;Fwpfis Vw;w ,lq;fspy; ,Ljy; - fs; tpFjpia vOJk; Kiw> njhifr; nrhw;fis vOJk; Kiw> nghUSf;F mikjpahd nrhw;fs;. | | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | | | **13 hours** | | | | |
| nrhw;fisg; gad;gLj;Jk; Kiw –tUjy; - Nghjy; - mioj;jy; - jUjy; - nfhLj;jy; - Xh; - xU –xU fUj;ijg; gy njhlh;fspy; ntspapLjy;. | | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | **14 hours** | | | | | | |
| fbjk; tiujy; - ciuahly; - fl;Liu –thf;fpa mikg;G –gj;jp mikg;G –RUf;fp tiujy; - ngUf;fp tiujy;. | | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | **14 hours** | | | | | | |
| vOj;Jg; gapw;rpfisj; jpUj;Jjy; - jpUj;JtJ gw;wpa rpy Fwpg;Gfs; - gilg;ghw;wYf;F top NfhYjy;. | | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | **14 hours** | | | | | | | |
| ciueil fw;gpj;jy; - ,yf;fzk; gapw;Wtjd; Nehf;fq;fs; - gapw;Wk; Kiw. | | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | **2 hours** | | | | | | | |
|  | | | | | **Total Lecture hours** | | **72 hours** | | | | | | | |
| **ghl E}y;** | | | | | | | | | | | | | | |
| 1 | Nguhrphpah; e. Rg;Gnul;bahh; - jkpo; gapw;Wk; Kiw> kzpthrfh; gjpg;gfk;> rpjk;guk;. | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | |
| 1 | r.MWKf Kjypahu;> jkpo; fw;gpf;Fk; Kiw>G+uk; gjpg;gfk;> jpUepd;wT+u;. | | | | | | | | | | | | | |
| 2 | c.Nt.rhkpehj ma;au;> rq;fj; jkpOk;> gpw;fhyj; jkpOk;>c.Nt.rh E}yfk;> nrd;id | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | |
| 1 | |  | | | | | | | | | | | | |
| 2 | |  | | | | | | | | | | | | |
| Course Designed By:: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | s | M | M | L | M | M | L | M | M | L |
| **CO3** | S | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | L | M | M | M | S | M | M |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | M | M | L | M | M | S | M | M | S | L |
|  |  |  |  |  |  |  |  |  |  |  |

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

Fifth

Semester

**Ie;jhk; gUtk; - V**

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | | **L** | | | | **T** | **P** | | **C** |
| **Kjd;ikg; ghlk;** | | | | | | ,yf;fzk; - 4 jhs; - 9 Gwg;nghUs; ntz;ghkhiy> ek;gpafg; nghUs; | | **6** | | | | **-** | **-** | | **4** |
|  | | | | | |  | | **ghlg;gpupT** | | | | | |  | |
| **ghl Nehf;fk;** | | | | | | | | | | | | | | | |
| 1. rq;f fhy kf;fspd; tho;tpay; newpfis mwpa itj;jy; 2. Nghu; jpwk;> tPu czu;it czu;j;Jjy; 3. mf tho;f;if ,yf;fzj;ij mwpar; nra;jy; | | | | | | | | | | | | | | | |
| **gad;fs;** | | | | | | | | | | | | | | | |
| 1 | | | kd;du;fspd; Ml;rp rpwg;ig kw;Wk; ntw;wpr; rpwg;ig mwpjy; | | | | | | | | | | K1 | | |
| 2 | | | Nghu; tpjpKiwfisj; njupe;J nfhs;Sjy; | | | | | | | | | | K2 | | |
| 3 | | | ,y;yw tho;tpd; rpwg;ig mwpe;J nfhs;Sjy; | | | | | | | | | | K3 | | |
| 4 | | | fsT tho;f;if newpapid mwpjy; | | | | | | | | | | K4 | | |
| 5 | | | muRg; Nghl;bj; Nju;Tfspy; gq;Nfw;fr; nra;jy; | | | | | | | | | | K5 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | | | **15 hours** | | | | | |
| ntl;rp> fue;ij | | | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | | **14 hours** | | | | | | |
| Jk;ig> thif | | | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | | **13 hours** | | | | | | |
| ghlhz;jpiz | | | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | | **14 hours** | | | | | | |
| fstpay; | | | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | | | **14 hours** | | | | | | |
| fw;gpay; | | | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | | | | **2 hours** | | | | |
|  | | | | | **Total Lecture hours** | | **72 hours** | | | | | | | | |
| **ghl E}y;fs;** | | | | | | | | | | | | | | | |
| 1 | Gwg;nghUs; ntz;ghkhiy – fof ntspaPL | | | | | | | | | | | | | | |
| 2 | ek;gpafg; nghUs; - fof ntspaPL | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | |
| 1 |  | | | | | | | | | | | | | | |
| 2 |  | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | |
| 1 | |  | | | | | | | | | | | | | |
| 2 | |  | | | | | | | | | | | | | |
| Course Designed By:: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | S | M | M | M | M | M | S | M | M | S |
| **CO3** | M | M | S | M | M | L | M | M | M | M |
| **CO3** | M | M | M | S | M | M | M | M | M | M |
| **CO4** | M | S | M | M | M | L | M | L | M | M |
| CO5 | M | M | L | M | M | L | M | M | S | L |
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\*S-Strong; M-Medium; L-Low

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| **ghlf;FwpaPl;L vz;** | | | | | |  | | | | **ghlj;jiyg;G** | | | | | | | **L** | | | | | **T** | **P** | | | **C** |
| **Kjd;ikg;ghlk;** | | | | | | | | | | jhs; - 10 fhg;gpaq;fs; | | | | | | | **4** | | | | | **-** | **-** | | | **4** |
|  | | | | | | | | | |  | | | | | | | **ghlg;gpupT** | | | | | | |  | | |
| **ghl Nehf;fk; :** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. fhg;gpa ,yf;fpaq;fs; thapyhf murpay; gz;ghL Fwpj;j fUj;Jf;fis mwpe;J nfhs;Sjy; 2. tho;tpay; Kiwfs;> mwr;rpe;jidfs;> ,aw;ifr;#oy; ,tw;iwf; fhg;gpaq;fs; top mwpa itj;jy; 3. fw;gid> nrhy;yhw;wy;> ,yf;fpa eak;> MSikj; jd;ikfis czu;j;Jjy; | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **gad;fs; :** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | fhg;gpaq;fspd; top fw;G newpia czu;jy; | | | | | | | | | | | | | | | | | | | K2 | | | |
| 2 | | | | mwr; nray;fs;> murpay; mwk; gw;wp mwpe;J nfhs;Sjy; | | | | | | | | | | | | | | | | | | | K2 | | | |
| 3 | | | | epu;thfj; jpwd; ngWjy; | | | | | | | | | | | | | | | | | | | K3 | | | |
| 4 | | | | el;gpd; ngUik> cwTfspd; Nkd;ik gw;wp mwpjy; | | | | | | | | | | | | | | | | | | | K4 | | | |
| 5 | | | | ,yf;fpa eaq;fs; El;gq;fs; Fwpj;J mwpjy; | | | | | | | | | | | | | | | | | | | K5 | | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:1** | | | | | | |  | | | | | | | | | | | | **15 hours** | | | | | | | |
| rpyg;gjpfhuk; - fl;Liuf; fhij>tof;Fiufhij> kzpNkfiy – MGj;jpud; jpwk; mwptpj;jf; fhij> Mjpiu gpr;irapl;l fhij | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:2** | | | | | | |  | | | | | | | | | | | **14 hours** | | | | | | | | |
| fk;guhkhazk; - Re;jufhz;lk; - #shkzpg;glyk; | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:3** | | | | | | |  | | | | | | | | | | | | | **13 hours** | | | | | | |
| nghpaGuhzk; - Gfo;r; Nrho ehadhu;; Guhzk; (38 ghly;fs;)  G+ryhu; ehadhu; Guhzk; (18 ghly;fs;) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:4** | | | | | | |  | | | | | | | | | | | | | **14 hours** | | | | | | |
| rPtfrpe;jhkzp –ehkfs; ,yk;gfk; - 1-50 ghly;fs; | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:5** | | | | | | |  | | | | | | | | | | | | | **14 hours** | | | | | | |
| Njk;ghtzp –ehl;Lg;glyk; | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:6** | | | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | | | | | | | | | | | **2 hours** | | | | | | |
|  | | | | | | | **Total Lecture hours** | | | | | | | | | | | | | **72 hours** | | | | | | |
| **ghl E}y;fs;** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | rpyg;gjpfhuk; | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | kzpNkfiy | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | fk;guhkhazk; | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | rPtf rpe;jhkzp | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | ngupa Guhzk; | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | tpy;yp ghujk; (%d;whk; ghfk;) | | | | | | | | | | | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | fp.th.[fe;ehjd; - jkpo;f; fhg;gpaq;fs;> mKj epiyak;>nrd;id | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | Nrhk. ,stuR– fhg;gpaj; jpwd;> kzpthrfu; E}yfk;> rpjk;guk;. | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | ,uh.fhrpuhrd; - fhg;gpaj; Njhw;wKk; tsu;r;rpAk;> kjp gjpg;gfk;> kJiu | | | | | | | | | | | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | |  | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | |  | | | | | | | | | | | | | | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Mapping with Programme Outcomes** | | | | | | | | | | | | | | | | | | | | | | | |
| **COs** | | | | **PO1** | | | **PO2** | **PO3** | | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | | | | | **PO10** | | | |
| **CO1** | | | | S | | | M | M | | M | S | M | L | M | M | | | | | M | | | |
| **CO3** | | | | S | | | M | M | | L | M | L | M | M | M | | | | | M | | | |
| **CO3** | | | | M | | | M | M | | S | L | M | M | S | M | | | | | M | | | |
| **CO4** | | | | M | | | S | M | | M | L | M | M | L | M | | | | | S | | | |
| CO5 | | | | M | | | M | L | | M | M | L | M | M | S | | | | | M | | | |
|  | | | |  | | |  |  | |  |  |  |  |  |  | | | | |  | | | |

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

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| **ghlf;FwpaPl;L vz;** | | | | | |  | | | | **ghlj;jiyg;G** | | | | | | | | | **L** | | | | **T** | **P** | | | **C** |
| **Kjd;ikg;ghlk;** | | | | | | | | | | jhs; - 11 ,yf;fpaj; jpwdha;T | | | | | | | | | **4** | | | | **-** | **-** | | | **4** |
|  | | | | | | | | | |  | | | | | | | | | **ghlg;gpupT** | | | | | |  | | |
| **ghl Nehf;fk;** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. ,yf;fpaq;fspd; Nghf;Ffis czu;e;J nfhs;tjw;Fk;> kjpg;gpLtjw;Fk; J}z;Ljyhf mikjy; 2. ,yf;fpak; gilf;fg;gl;ljd; Nehf;fj;ij mwpe;J> Ma;T Nkw;nfhs;tjw;F cjTjy; 3. ,yf;fpaq;fspd; gz;Gfis Muha;e;J> Gjpa ,yf;fpaf; nfhs;iffs; cUthtjw;Fj; Jiz nra;jy; | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **gad;fs; :** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | Gjpa ,yf;fpaq;fisg; gilf;fg; gilg;ghspfs; J}z;lg;gLfpd;wdu; | | | | | | | | | | | | | | | | | | | | K6 | | | |
| 2 | | | | ,yf;fpag; gpiofs;> ,yf;fzg; gpiofs; ePf;fp vOJjy; | | | | | | | | | | | | | | | | | | | | K3 | | | |
| 3 | | | | r%f tuyhw;iw mwpjy; | | | | | | | | | | | | | | | | | | | | K2 | | | |
| 4 | | | | fiyapd; rpwg;Gk; mjidf; fw;Nghupd; top r%f tsu;r;rpf;F cjTjy; | | | | | | | | | | | | | | | | | | | | K5 | | | |
| 5 | | | | jdpkdpj MSikj; jpwd; ngWjy; | | | | | | | | | | | | | | | | | | | | K4 | | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:1** | | | | | | |  | | | | | | | | | | | | | | **15 hours** | | | | | | |
| kjpg;Giu –jpwdha;T –Muha;r;rp –goe;jkpo; ,yf;fpaj; jpwdha;T | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:2** | | | | | | |  | | | | | | | | | | | | | **13 hours** | | | | | | | |
| %yg;ghlk; - ciukuG –fy;tpahsh; - mofpay; jpwdha;Tfs; | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:3** | | | | | | |  | | | | | | | | | | | **14 hours** | | | | | | | | | |
| r%ftpay; - xg;gpyf;fpak; - gy;fiyf;fof Muha;r;rpfs; | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:4** | | | | | | |  | | | | | | | | | | | **14 hours** | | | | | | | | | |
| gpd;etPdj;Jtk; | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:5** | | | | | | |  | | | | | | | | | | **14 hours** | | | | | | | | | | |
| ngz;zpak; - jypj;jpaj; jpwdha;Tfs; | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:6** | | | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | | | | | | | | | | | **2 hours** | | | | | | | |
|  | | | | | | | **Total Lecture hours** | | | | | | | | | | | | | **72 hours** | | | | | | | |
| **ghl E}y;** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | Kidth; f. gQ;rhq;fk; - jkpo; ,yf;fpaj; jpwdha;T tuyhW> mfuk;> kid vz; : 1> eph;kyh efh;> jQ;rht+h; - 7. | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | muq;f.Rg;igah - ,yf;fpaj; jpwdha;T ,rq;fs; - nfhs;iffs;> eyq;fps;sp gjpg;gfk;> jQ;rhT+u; | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | jp.R.eluhrd; - jpwdha;Tf; fiy nfhs;iffSk; mZFKiwfSk;> epA+ nrQ;Rup Gf; `T];> nrd;id | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | jh.V.Qhd%u;j;jp - ,yf;fpaj; jpwdha;tpay;>Ie;jpizg; gjpg;gfk;> nrd;id | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | |  | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | |  | | | | | | | | | | | | | | | | | | | | | | | | |
| Course Designed By:: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Mapping with Programme Outcomes** | | | | | | | | | | | | | | | | | | | | | | | | |
| **COs** | | | | **PO1** | | | **PO2** | **PO3** | | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | | | | | | **PO10** | | | |
| **CO1** | | | | M | | | M | M | | M | M | M | S | M | M | | | | | | S | | | |
| **CO3** | | | | S | | | M | M | | L | M | L | M | M | M | | | | | | M | | | |
| **CO3** | | | | M | | | M | M | | S | M | M | M | M | M | | | | | | M | | | |
| **CO4** | | | | M | | | S | M | | M | L | M | M | L | M | | | | | | M | | | |
| CO5 | | | | M | | | M | L | | M | M | S | M | M | S | | | | | | L | | | |
|  | | | |  | | |  |  | |  |  |  |  |  |  | | | | | |  | | | |

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

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| **ghlf;FwpaPl;L vz;** | | | | | |  | | | | **ghlj;jiyg;G** | | | | | | | | | **L** | | | | **T** | | **P** | | **C** |
| **Kjd;ikg;ghlk;** | | | | | | | | | | jhs; - 12 nghJ nkhopapay; | | | | | | | | | **4** | | | | **-** | | **-** | | **4** |
|  | | | | | | | | | |  | | | | | | | | | **ghlg;gpupT** | | | | |  | | | |
| **ghl Nehf;fk; :** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. nkhopia mwptpay; Kiwg;gb mZFtjw;Fupa mwpit toq;Fjy; 2. nkhop topf; fy;tpapd; ,d;wpaikahikia vLj;Jiuj;jy; 3. rKjhaj;NjhL nkhopf;Fs;s cwit mwpar; nra;jy; | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **gad;fs;** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | xypg;G Kiwfis Kiwahff; fw;W cr;rupg;G jpwd; ngWjy; | | | | | | | | | | | | | | | | | | | | | K5 | | |
| 2 | | | | rpwe;j nrhy; mikg;G> nkhop mikg;NghL vOJjy; | | | | | | | | | | | | | | | | | | | | | K3 | | |
| 3 | | | | tpidr;nrhw;fspd; gad;ghl;L Kiwia mwpjy; | | | | | | | | | | | | | | | | | | | | | K2 | | |
| 4 | | | | thf;fpaikg;ig cUthf;Fjy; | | | | | | | | | | | | | | | | | | | | | K6 | | |
| 5 | | | | Ngr;R nkhop> gpw nkhop fyg;G> jha;nkhopapd; rpwg;ig ,tw;iw mwpe;J nfhs;Sjy; | | | | | | | | | | | | | | | | | | | | | K4 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:1** | | | | | | |  | | | | | | | | | | | | | | **15 hours** | | | | | | |
| nkhopAk; nkhopapaYk; - xypapay; - xypAWg;GfSk; mjd; njhopYk; - xypadpay; - xypad;fis tif nra;Ak; Kiw –jkpopy; xypad;fs;. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:2** | | | | | | |  | | | | | | | | | | | | | **14 hours** | | | | | | | |
| cUgd; - cUgd;fisf; fz;lwpjy; - ielh $Wk; tpjpfs; - cUnghypadpay; | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:3** | | | | | | |  | | | | | | | | | | | **13 hours** | | | | | | | | | |
| jkpopy; tpidr; nrhw;fs; | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:4** | | | | | | |  | | | | | | | | | | | **14 hours** | | | | | | | | | |
| mz;ikAWg;G –khw;wpyf;fzf; Nfhl;ghL –njhlf;fk; - tsh;r;rp | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:5** | | | | | | |  | | | | | | | | | | **14 hours** | | | | | | | | | | |
| Ngr;Rnkhop –nkhopfs; fld; thq;Fjy; - jha;nkhop | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:6** | | | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | | | | | | | | **2 hours** | | | | | | | | | | |
|  | | | | | | | **Total Lecture hours** | | | | | | | | | | **72 hours** | | | | | | | | | | |
| **ghl E}y;** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | jpU.Kj;Jrz;Kfk; - ,f;fhy nkhopapay; (jkpo;nkhopf; fz;Nzhl;lj;jpy;)> Ky;iyepiyak;> 9> ghujpefh;> Kjy;njU> nrd;id-17. | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | K.tujuhrdhu; - nkhop E}y;> Ky;iy epiyak;> kJiu | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | |  | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | |  | | | | | | | | | | | | | | | | | | | | | | | | |
| Course Designed By:: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Mapping with Programme Outcomes** | | | | | | | | | | | | | | | | | | | | | | | | |
| **COs** | | | | **PO1** | | | **PO2** | **PO3** | | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | | | | | | **PO10** | | | |
| **CO1** | | | | M | | | S | M | | M | L | M | S | M | M | | | | | | L | | | |
| **CO3** | | | | S | | | M | M | | L | M | L | M | M | M | | | | | | M | | | |
| **CO3** | | | | M | | | S | M | | S | M | M | L | M | M | | | | | | M | | | |
| **CO4** | | | | M | | | S | M | | M | L | M | M | L | M | | | | | | M | | | |
| CO5 | | | | M | | | M | S | | M | M | S | M | M | S | | | | | | L | | | |
|  | | | |  | | |  |  | |  |  |  |  |  |  | | | | | |  | | | |

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

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | **L** | | **T** | **P** | | **C** |
| **tpUg;gg;ghlk; - III** | | | | | | ,. rpj;jh; ghly;fs; | **4** | | **-** | **-** | | **4** |
|  | | | | | |  | **ghlg;gpupT** | | | |  | |
| **ghl Nehf;fk;** | | | | | | | | | | | | |
| 1. gjpndz; rpj;ju;fs; Fwpj;J mwpa itj;jy; 2. rpj;ju;fspd; mbg;gilf; Nfhl;ghLfis tpsf;Fjy; 3. kdpj tho;f;ifapd; epiyahikia mwpTWj;Jjy; | | | | | | | | | | | | |
| **gad;fs;** | | | | | | | | | | | | |
| 1 | | | rpj;ju;fspd; mwnewp tho;f;ifia mwpe;J nfhs;Sjy; | | | | | | | K2 | | |
| 2 | | | rpj;ju;fspd; jd;dykw;w tho;f;ifia njupe;J nfhs;sy; | | | | | | | K4 | | |
| 3 | | | rhjp Ngjkw;w tho;it czu;;jy; | | | | | | | K5 | | |
| 4 | | | capu;fs; midj;Jk; grpg;gpzp ,y;yh ey;tho;T tho;tij czu;jy; | | | | | | | K3 | | |
| 5 | | | nghwhik> mfk;ghtk;> Nguhir ,tw;iw ePf;fp thOk; Kiwia mwpjy; | | | | | | | K3 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | **15 hours** | | | | |
| rptthf;fpah; - mwpTepiy - 47 Kjy; 66 tJ ghly; tiu (20 ghly;fs;) | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | **13 hours** | | | | |
| ghk;ghl;br; rpj;jh; : 1. nghUshir tpyfy; (40 Kjy; 49 tiu) 2. ngz;zhir tpyfy; (50 Kjy; 59 tiu) (20 ghly;fs;) | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | **14 hours** | | | | |
| gl;bdj;jhh; : 1.Mg;G mirj;j Fuq;F (2 ghly;fs;) 2.md;id ,we;j NghJ ghbait (10 ghly;fs;) 3.,we;j fhyj;J ,uq;fy; (10 ghly;fs;) | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | **14 hours** | | | | |
| ,ilf;fhl;Lr; rpj;jh; - ehuhazf; Nfhdhh; $w;Wf; fz;zpfs; (11-24) (g. 243) | | | | | | | | | | | | |
| **myF:5** | | | | |  | | | **14 hours** | | | | |
| fLntspr;rpj;jh; - Mde;jf; fspg;G 34 ghly;fs; | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | **2 hours** | | | | |
|  | | | | | **Total Lecture hours** | | | **72 hours** | | | | |
| **ghl E}y;** | | | | | | | | | | | | |
| 1 | rpj;jh; ghly;fs; gjp.M. Kidth; r. nka;ag;gd;> kzpthrfh; gjpg;gfk;. 8/7> rpq;fh; njU> ghhpKid> nrd;id –600 108. | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | |
| 1 | gp.vd;.guRuhkd; - rpj;ju;fs; tho;f;if> tpfld; gpuRuk;> nrd;id | | | | | | | | | | | |
| 2 | Nf.uh[hjpUNtq;flk; - nfhy;ypkiy rpj;ju;fs;> tpfld; gpuRuk;> nrd;id | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | |
| 1 | |  | | | | | | | | | | |
| 2 | |  | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | S | M | M | S | M | M | L | M | M | L |
| **CO3** | L | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | S | M | S | M | L | M | S |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | M | M | L | M | M | S | L | M | S | M |
|  |  |  |  |  |  |  |  |  |  |  |

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

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| **ghlf;FwpaPl;L vz;** | | | | | |  | | | | **ghlj;jiyg;G** | | | | | | | | | | **L** | | | | **T** | **P** | | | **C** |
| **tpUg;gg;ghlk; - I** | | | | | | | | | | m. kf;fs; Clfj; njhlh;gpay; | | | | | | | | | | **4** | | | | **-** | **-** | | | **4** |
|  | | | | | | | | | |  | | | | | | | | | | **ghlg;gpupT** | | | | | |  | | |
| **ghl Nehf;fk; :** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. jfty; njhlu;G Clfq;fs; gw;wp mwpar; nra;jy; 2. rKjhak;> murpay;> nghUshjhuk;> gz;ghL ,tw;wpy; Clfq;fspd; gq;F Fwpj;J mwpa itj;jy; 3. njhopy; El;g tsu;r;rp> mwptpay; Kd;Ndw;wk; kw;Wk; rKjha khw;wq;fSf;F Vw;g Clfq;fs; nray;gLfpd;wd vd;gij czu itj;jy; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **gad;fs; :** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | Clf njhlu;gpaypd; Nfhl;ghLfs; tiffs; tiuaiwfisj; njupe;J nfhs;Sjy; | | | | | | | | | | | | | | | | | | | | | K2 | | | |
| 2 | | | | mwptpay; njhopw;El;g tsu;r;rpahy; rKjhak; mile;j khw;wij mwpjy; | | | | | | | | | | | | | | | | | | | | | K2 | | | |
| 3 | | | | fhl;rp Clfq;fs; top rpf;fy;fs;> jPu;Tfs; tsu;r;rpf;fhd topKiwfisg; Gupe;J nfhs;Sjy; | | | | | | | | | | | | | | | | | | | | | K3 | | | |
| 4 | | | | rKjha khw;wj;jpy; ,jo;fspd; Nehf;fk;> tsu;r;rp gw;wp mwpjy; | | | | | | | | | | | | | | | | | | | | | K4 | | | |
| 5 | | | | Ntiy tha;g;G ngWjy; | | | | | | | | | | | | | | | | | | | | | K5 | | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:1** | | | | | | |  | | | | | | | | | | | | | | | **15 hours** | | | | | | |
| kf;fs; Clfj; njhlh;gpay; Nfhl;ghLfs; - khh;r;rpaf; Nfhl;ghLfs; - ehd;F tiff; Nfhl;ghLfs; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:2** | | | | | | |  | | | | | | | | | | | | | | **13 hours** | | | | | | | |
| thndhyp –njhiyf;fhl;rpj; njhlh;G –njhiyf;fhl;rp cj;jpfs; - jpiug;glk; - jpiug;gl cj;jpfs; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:3** | | | | | | |  | | | | | | | | | | | **14 hours** | | | | | | | | | | |
| ,jopay; Nkyhz;ik –th;j;jf ,jopay; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:4** | | | | | | |  | | | | | | | | | | | **14 hours** | | | | | | | | | | |
| kf;fs; njhlh;G cj;jpfs; - tpsk;guq;fs; - tpsk;gu mbg;gilfs; - tpsk;gu cj;jpfs; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:5** | | | | | | |  | | | | | | | | | | **14 hours** | | | | | | | | | | | |
| tsh;r;rpj; njhlh;gpay; - tsh;r;rp Fwpj;j rpf;fy;fSk; ,yf;FfSk; - tsh;r;rpapy; Kf;fpaf; Nfhl;ghLfs; - tsh;r;rpf;fhd khw;W topKiwfs;. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF: 6** | | | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | | | | | | | | | | **2 hours** | | | | | | | | | |
|  | | | | | | | **Total Lecture hours** | | | | | | | | | | **72 hours** | | | | | | | | | | | |
| **ghl E}y;fs;** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | lhf;lh; Mh;.rhe;jh - kf;fs; Clfj;njhlh;gpay; mbg;gilfs; - lhf;lh; tP.Nkhfd;> kPbah gg;spNfrd;];> kJiu. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | lhf;lh; Mh;.rhe;jh - kf;fs; Clfj;njhlh;gpay; Gjpa ghpkhzq;fs; - lhf;lh; tP.Nkhfd;> kPbah gg;spNfrd;];> kJiu. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | nt.ey;yjk;gp - njhiyf;fhl;rpAk; gpw jfty; JiwfSk;> ts;Std; ntspaPl;lfk;> nrd;id. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | nrh.fiythzp - gj;jphpiff;fiy> rhujh ntspaPL> NtY}h;. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | jkpo;j;jpiug;gl ,jo;fs;> ,uhrp ntspaPL> rpd;dhsg;gl;b. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | ,uh.Nfhjz;lghzp - ,jopay;>kPdhl;rp Gj;jf epiyak;> kJiu | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | |  | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | |  | | | | | | | | | | | | | | | | | | | | | | | | | |
| Course Designed By:: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Mapping with Programme Outcomes** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **COs** | | | | **PO1** | | | **PO2** | **PO3** | | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | | | | | | | **PO10** | | | |
| **CO1** | | | | S | | | M | M | | L | M | M | S | M | M | | | | | | | S | | | |
| **CO3** | | | | S | | | M | M | | L | M | L | M | S | M | | | | | | | M | | | |
| **CO3** | | | | M | | | M | M | | S | M | M | M | M | M | | | | | | | M | | | |
| **CO4** | | | | M | | | S | M | | M | L | M | M | L | M | | | | | | | M | | | |
| CO5 | | | | M | | | M | L | | M | M | S | M | M | S | | | | | | | L | | | |
|  | | | |  | | |  |  | |  |  |  |  |  |  | | | | | | |  | | | |

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

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | **L** | | | **T** | **P** | | **C** |
| **tpUg;gg;ghlk; - I** | | | | | | M. ehlftpay; | **4** | | | **-** | **-** | | **4** |
|  | | | | | |  | **ghlg;gpupT** | | | | |  | |
| **ghl Nehf;fk; :** | | | | | | | | | | | | | |
| 1. ehlfj;jpd; Njhw;wk; tsu;r;rpapid mwpar; nra;jy; 2. ehlfj;jpd; tiffis vLj;Jiuj;jy; 3. jw;fhy ehlff; fiyapd; jd;ikiaf; $Wjy; | | | | | | | | | | | | | |
| **gad;fs; :** | | | | | | | | | | | | | |
| 1 | | | ehlf cj;jpfis mwpe;J nfhs;Sjy; | | | | | | | | K1  K2 | | |
| 2 | | | rpwe;j ehlf MrpupauhFjy; | | | | | | | | K6 | | |
| 3 | | | rpwe;j ehlf ,af;Feuhfp r%f khw;wq;fis Vw;gLj;Jjy; | | | | | | | | K3  K6 | | |
| 4 | | | ehlf fiyQuhf cUkhWjy; | | | | | | | | K6 | | |
| 5 | | | nkhopg;ngau;g;Gj; jpwid tsu;j;J Ntiytha;g;G ngWjy; | | | | | | | | K5 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create | | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | | **15 hours** | | | | |
| ehlfj;jpd; Njhw;wKk; tsh;r;rpAk; - rpyk;gpy; ehlff;$Wfs; | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | **14 hours** | | | | | |
| njd;dhl;by; ehlff;fiy –njd;dhl;L ehlf Nkil –etPd muq;ff;fiy –fpuhk ehlf rhiy | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | **13 hours** | | | | | |
| rq;fujhR Rthkpfs; - gk;ky; rk;ge;j Kjypahh; - fiythzh; vd;.v];.fpU\;zd; - vg;.[p.eNlr ma;ah; ghyhkzp mk;ikahh; - vk;. fe;jrhkp Kjypahh; MfpNahhpd; ehlfg;gzp | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | **14 hours** | | | | | |
| jh$hpd; %d;W ehlfq;fs; - fp.eluh[d;> ghit ntspaPL> nrd;id. | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | | **14 hours** | | | | | |
| Xuq;fehlfk; - r%ftpopg;Gzh;T ehlfk; - fhg;gpaf; fijf;$Wfis mbg;gilahff; nfhz;l ehlfk; vOJjy;. | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | **2 hours** | | | | | |
|  | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | |
|  | | | | | **Total Lecture hours** | | | **72 hours** | | | | | |
| **ghl E}y;fs;** | | | | | | | | | | | | | |
| 1 |  | | | | | | | | | | | | |
| 2 |  | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | |
| 1 | jkpo; ehlf kyh; - cyfj; jkpo; Muha;r;rp epWtdk;> nrd;id. | | | | | | | | | | | | |
| 2 | rpyk;Gr; nry;tk; - Nahfp – Rj;jhde;j ghujpahh;> nry;tp gjpg;gfk;> fhiuf;Fb. | | | | | | | | | | | | |
| 3 | ehlff;fiy – rp.tp.Kdprhkp>fiyf;fhl;rpf;FO> 2-tJ cyfj;jkpo; fUj;juq;F khehL> nrd;id. | | | | | | | | | | | | |
| 4 | ehlf eWkyh;fs; - Kidth; Gyth; j.Nfhlg;gps;is> Nfhlg;gps;is mwf;fl;lis> jpUr;rp. | | | | | | | | | | | | |
| 5 | ehlff;fsQ;rpak;> jkpo;g; gy;fiyf;fofk;> jQ;rht+h;. | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | |
| 1 | |  | | | | | | | | | | | |
| 2 | |  | | | | | | | | | | | |
| Course Designed By:: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | S | M | M | M | M | M | S | M | M | S |
| **CO3** | M | M | M | S | M | L | M | M | M | M |
| **CO3** | M | M | M | L | M | S | M | L | M | M |
| **CO4** | S | S | M | M | L | M | M | L | M | M |
| CO5 | M | M | L | M | M | S | M | M | L | S |
|  |  |  |  |  |  |  |  |  |  |  |

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

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | **L** | | | **T** | **P** | | **C** |
| **tpUg;gg;ghlk; -I** | | | | | | ,. ,jopay; | **4** | | | **-** | **-** | | **4** |
|  | | | | | |  | **ghlg;gpupT** | | | | |  | |
| **ghl Nehf;fk;** | | | | | | | | | | | | | |
| 1. ,jopay; tiffs; Fwpj;J vLj;Jiuj;jy; 2. ,jopay; tsu;r;rp tuyhW Fwpj;J czu;j;Jjy; 3. ,jo;fspd; gzpfs; Fwpj;J njupe;J nfhs;Sjy; | | | | | | | | | | | | | |
| **gad;fs;** | | | | | | | | | | | | | |
| 1 | | | ,jo;fs; njhlq;Ftjw;F topKiwfis mwpe;J nfhs;Sjy; | | | | | | | | K3 | | |
| 2 | | | gj;jpupf;ifr; rl;lq;fs; Fwpj;J njupe;J nfhs;Sjy; | | | | | | | | K1  K2 | | |
| 3 | | | murpay;> ePjp> mwptpay;> nghUshjhuk;> nrhw;nghopTfs; Fwpj;J mwpjy; | | | | | | | | K2 | | |
| 4 | | | Gifg;gl> Gydha;T nra;jpfs; czu;jy; | | | | | | | | K3  K4 | | |
| 5 | | | ,jopay; njhopYf;fSf;fhd tha;g;Gfs; gj;jpupf;if Rje;jpuk; Fwpj;J mwpe;J nfhs;Sjy; | | | | | | | | K5 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create | | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | | **15 hours** | | | | |
| kf;fs; njhlh;G rhjdq;fs; Xh; mwpKfk; - ,jo;fspd; tuyhW –N[k;];> mf];l];`pf;fp> gf;fpq;fhk;> ,uhrhuhk; Nkhfd;uha; MfpNahhpd; ,jopay; gzpfs;. | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | **14 hours** | | | | | |
| gj;jphpifr; rl;lq;fs; - gjpg;Ghpikr; rl;lk; - ,jo;fspd; gjpTr;rl;lk; - nra;jp –nra;jp tpsf;fk; - nra;jpapd; ,ay;Gfs; - nra;jp %yq;fs; - nra;jp tiffs; - nra;jp epWtdq;fs;. | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | **13 hours** | | | | | |
| nra;jp Mrphpah; - nra;jpapd; cs;slf;fq;fs; - nra;jpj;jhs; gf;f mikg;G Kiw –vOJk; Kiw –nrk;ikahf;fk;. | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | **14 hours** | | | | | |
| jiyaq;fq;fs; - glq;fs; (Nfypr;rpj;jpuq;fs;) –glq;fspd; Kf;fpaj;Jtk; - eifr;Ritj; JZf;Ffs; - mr;Rg;gb jpUj;Jjy; - mr;Rg;gpiojpUj;jf; FwpaPLfs;. | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | | **14 hours** | | | | | |
| epUgh; jFjp –flik –nra;jp Nrfhpg;gjpy; Vw;gLk; ,lh;g;ghLfs; - nra;jp Nrfhpf;Fk; jpwd; - Ngl;b vLj;jy;. | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | **2 hours** | | | | | |
|  | | | | | **Total Lecture hours** | | | **72 hours** | | | | | |
| **ghl E}y;** | | | | | | | | | | | | | |
| 1 | ,jopay;fiy> lhf;lh; kh.gh.FUrhkp> jhad;gfk;> V.Nf.vk;.[p.Mh;. efh;> jpz;Lf;fy; | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | |
| 1 | jkpo; ,jo;fs; - Nrhkny> nrd;idg; gy;fiyf;fofk;> nrd;id. | | | | | | | | | | | | |
| 2 | ,jopay; Xh; mwpKfk; - M.gp.me;NjhzpuhR> MNuhf;fpak; gjpg;gfk;> jpUr;rp. | | | | | | | | | | | | |
| 3 | ,jopay; - ,uh. Nfhjz;lghdp> fw;gfk; ntspaPL> kJiu. | | | | | | | | | | | | |
| 4 | ,jopay; - Kidth; r. <];tud;> ,uh.rghgjp> ghit gg;spNf\d;];> nrd;id. | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | |
| 1 | |  | | | | | | | | | | | |
| 2 | |  | | | | | | | | | | | |
| Course Designed By:: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | S | M | M | M | M | M | S | M | M | L |
| **CO3** | S | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | S | M | M | M | S | M | M |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | M | M | L | M | M | S | M | S | M | S |
|  |  |  |  |  |  |  |  |  |  |  |

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

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | | | **L** | | | **T** | **P** | | **C** |
| **tpUg;gg;ghlk;** | | | | | | jhs; - 3 ,yf;fzk; | | | **3** | | | **-** | **-** | | **3** |
|  | | | | | |  | | | **ghlg;gpupT** | | | | |  | |
| **ghl Nehf;fk;** | | | | | | | | | | | | | | | |
| 1. njhd;ikahd jkpo; ,yf;fz E}y;fis mwpar; nra;jy; 2. ,yf;fz ciuahrpupau;fisg; gw;wp tpsf;Fjy; 3. fiyr; nrhw;fs; cUthf;Fk; jd;ikia tpsf;Fjy; | | | | | | | | | | | | | | | |
| **gad;fs;:** | | | | | | | | | | | | | | | |
| 1 | | | ,yf;fz ciuahrpupau;fspd; tuyhw;iw mwpe;J nfhs;Sjy; | | | | | | | | | | K2 | | |
| 2 | | | mfg;nghUs; Gwg;nghUs; thapyhf mf;fhyr; r%f epiyia mwpjy; | | | | | | | | | | K4 | | |
| 3 | | | ,yf;fpaj;jpy; mzpapd; Kf;fpaj;Jtk; Fwpj;J czu;jy; | | | | | | | | | | K3 | | |
| 4 | | | gh> ghtpdq;fs; %ykhf gilg;ghw;wy; jpwid Nkk;gLj;Jjy; | | | | | | | | | | K3 | | |
| 5 | | | Gjpa fiyr;nrhy;yhf;fj;ij cUthf;Fjy; | | | | | | | | | | K6 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | | | | **15 hours** | | | | |
| jkpopy; ,yf;fz E}y;fs; mfj;jpak; - njhy;fhg;gpak; - ed;D}y; - tPuNrhopak; - Nekpehjk; - jz;bayq;fhuk; - ahg;gUq;fyf;fhhpif –ciuahrphpah;fs; tuyhW. | | | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | | | **14 hours** | | | | | |
| mfg;nghUs; - Kjy;> fU> chpg;nghUl;fs; - Gwg;nghUs; - gd;dpUjpizfs; - mfj;jpiz> iff;fpis> ngUe;jpiz cl;gl VO tiffSk; - mfj;Jiw –Gwj;Jiw –tpsf;fq;fs;. | | | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | **13 hours** | | | | | | | |
| mzp ,yf;fzk; - ctik –vLj;Jf;fhl;L ctikzp –cUtf mzp –VfNjr cUtf mzp –nrhw;nghUl;gp;d;tU epiyazp –jw;Fwpg;Ngw;wtzp –kaf;fmzp - ,y;nghUStik mzp –Ntw;Wikazp –gpwpJ nkhopjyzp –epuy; epiu mzp –tQ;rg;Gfo;r;rpazp. | | | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | **14 hours** | | | | | | | |
| ghTf;Fhpa mbAk; XirAk; - ntz;gh ,yf;fzKk; tiffSk; - Mrphpag;gh ,yf;fzKk; tiffSk; - fypg;gh ,yf;fzKk;> tiffSk;> tQ;rpg;gh ,yf;fzKk; tiffSk; - kUl;gh tiffs;. | | | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | **14 hours** | | | | | | | | |
| fiyr;nrhy;yhf;fk; - fld; thq;fpa nrhw;fs; - Gjpa nrhw;fSk;> njhlh; nkhopfSk;> Mq;fpyg; gonkhopfs;> kuGj;njhlh;fs; jkpopy; nkhop ngah;j;jy; - kuGj;njhlh;fSk; khDl tho;f;ifAk; mwpjy;. | | | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | **2 hours** | | | | | | | | |
|  | | | | | **Total Lecture hours** | | **72 hours** | | | | | | | | |
| **ghl E}y;fs;** | | | | | | | | | | | | | | | |
| 1 |  | | | | | | | | | | | | | | |
| 2 |  | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | |
| 1 | m.fp.gue;jhkdhh; - ey;y jkpo; vOj Ntz;Lkh? –ghhp epiyak;> 184> gpufhrk; rhiy> nrd;id-108. | | | | | | | | | | | | | | |
| 2 | jz;b - jz;bayq;fhuk; - fof ntspaPL | | | | | | | | | | | | | | |
| 3 | tprhfg;ngUkhisah; - ahg;gpyf;fzk; - fofntspaPL. | | | | | | | | | | | | | | |
| 4 | Gyth; f.,sq;Nfhtd; - kuGj;njhlh;fSk; khDl tho;f;ifAk;> tp[ah gjpg;gfk;> Nfhit. | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | |
| 1 | |  | | | | | | | | | | | | | |
| 2 | |  | | | | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | S | M | M | M | M | S | M | M | L |
| **CO3** | M | L | M | L | M | L | M | L | M | M |
| **CO3** | M | M | M | S | M | L | M | S | M | M |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | M | M | L | M | M | S | M | M | S | M |
|  |  |  |  |  |  |  |  |  |  |  |

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

Sixth

Semester

**Mwhk; gUtk; - VI**

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | | | **L** | | | **T** | | **P** | **C** |
| **Kjd;ikg;ghlk;** | | | | | | jhs; - 13 rq;f ,yf;fpak; mfk; | | | **4** | | | **-** | | **-** | **4** |
|  | | | | | |  | | | **ghlg;gpupT** | | | |  | | |
| **ghl Nehf;fk;** | | | | | | | | | | | | | | | |
| 1. goe;jkpo; ,y;yw newpia czu;j;Jjy; 2. goq;fhy tuyhw;Wg; gjpTfs; top tzpf mwpT ngw itj;jy; 3. mwpthu;e;j nghOJNghf;F top gz;ilj; jkpoupd; kdj;jpz;ikia mwpar; nra;jy; | | | | | | | | | | | | | | | |
| **gad;fs; :** | | | | | | | | | | | | | | | |
| 1 | | | goe;jkpou;fspd; tho;tpay; Kiwfis mwpjy; | | | | | | | | | | | K2 | |
| 2 | | | Gytu;fspd; jdpj;jd;ikiaj; njupe;J nfhs;Sjy; | | | | | | | | | | | K3 | |
| 3 | | | rq;f fhy ,aw;ifr; #oiy mwpe;J nfhs;Sjy; | | | | | | | | | | | K3 | |
| 4 | | | gz;ila fhy el;gpd; Moj;ij czu;jy; | | | | | | | | | | | K5 | |
| 5 | | | njhd;ikahd gz;ghl;il mwpjy; | | | | | | | | | | | K2 | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | | |
| **myF:1** | | | | | **fw;G tho;f;if newp** | | | | | | **13 hours** | | | | |
| ew;wpiz – ghly; vz;fs; (1> 42> 59> 110> 142> 179> 214> 221> 243) 9 ghly;fs; | | | | | | | | | | | | | | | |
| **myF:2** | | | | | **md;gpay; newp** | | | | | **14 hours** | | | | | |
| FWe;njhif – ghly; vz;fs; (3> 7> 17> 18> 40> 49> 58> 59) 8 ghly;fs; | | | | | | | | | | | | | | | |
| **myF:3** | | | | | **fsT tho;f;if newp** | | | **14 hours** | | | | | | | |
| Iq;FEW}W –1. jha;f;Fiuj;j gj;J (nea;jy;)> 2.jiytp ,uq;F gj;J (ghiy) | | | | | | | | | | | | | | | |
| **myF:4** | | | | | **tuyhw;Wg; gjpTfs;** | | | **15 hours** | | | | | | | |
| mfehD}W – ghly; vz;fs; (69> 76> 77> 149> 251> 265> 281> 375) 8 ghly;fs; | | | | | | | | | | | | | | | |
| **myF:5** | | | | | **gz;ilj; jkpou;fspd; tpisahl;Lfs;** | | **14 hours** | | | | | | | | |
| fypj;njhif – ghly; vz;fs; (37> 68> 82> 101> 102> 106) 6 ghly;fs; | | | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | **2 hours** | | | | | | | | |
|  | | | | | **Total Lecture hours** | | **72 hours** | | | | | | | | |
| **ghl E}y;fs;** | | | | | | | | | | | | | | | |
| 1 | vl;Lj;njhif E}y;fs; | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | |
| 1 |  | | | | | | | | | | | | | | |
| 2 |  | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | |
| 1 | |  | | | | | | | | | | | | | |
| 2 | |  | | | | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | M | M | M | M | M | S | M | M | S |
| **CO3** | S | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | S | M | M | M | M | M | M |
| **CO4** | S | M | M | M | S | M | M | L | M | M |
| CO5 | M | M | L | M | M | S | M | M | S | L |
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\*S-Strong; M-Medium; L-Low

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | | | **L** | | | **T** | | **P** | **C** |
| **Kjd;ikg;ghlk;** | | | | | | jhs; - 14 rq;f ,yf;fpak; Gwk; | | | **4** | | | **-** | | **-** | **4** |
|  | | | | | |  | | | **ghlg;gpupT** | | | |  | | |
| **ghl Nehf;fk; :** | | | | | | | | | | | | | | | |
| 1. kd;du;fspd; tuyhw;iw vLj;Jiuj;jy; 2. Ml;rpr; rpwg;G> nfhil> el;G Nghd;witfis mwpa itj;jy; 3. gz;ilj; jkpoupd; tPu czu;it mwpa itj;jy; | | | | | | | | | | | | | | | |
| **gad;fs;** | | | | | | | | | | | | | | | |
| 1 | | | kwj;jpYk; mwk; Nghw;Wk; gz;ig czu;jy; | | | | | | | | | | | K2 | |
| 2 | | | gz;ilj; jkpoupd; Nghu; kuG> Nghu; jpwk; mwpjy; | | | | | | | | | | | K2 | |
| 3 | | | kd;du;fspd; Nghu; fUtpfs; Fwpj;J njupe;J nfhs;Sjy; | | | | | | | | | | | K3 | |
| 4 | | | jd;khd czu;T> tQ;rpd nkhopia czu;jy; | | | | | | | | | | | K4 | |
| 5 | | | jkpou;fspd; gz;ghl;L czu;itg; ngWjy; | | | | | | | | | | | K5 | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6**– Create | | | | | | | | | | | | | | | |
| **myF:1** | | | | | **tho;tpay; newpfs;** | | | | | | **15 hours** | | | | |
| GwehD}W–9> 18> 67> 107> 109> 194> 195> 212> 214> 223) (10 ghly;fs;) | | | | | | | | | | | | | | | |
| **myF:2** | | | | | **nfhil khl;rp** | | | | | **13 hours** | | | | | |
| gjpw;Wg;gj;J –2-Mk; gj;J ghly;fs; KOtJk; - 10 ghly;fs; | | | | | | | | | | | | | | | |
| **myF:3** | | | | | **tzpf khl;rp** | | | **14 hours** | | | | | | | |
| gl;bdg;ghiy – ghly; tupfs; (1 Kjy; 193 tiu) | | | | | | | | | | | | | | | |
| **myF:4** | | | | | **epiyahik newpfs;** | | | **14 hours** | | | | | | | |
| jpUf;Fws;> mjpfhu vz;fs; : 34> 35> 36> 37> 38 ( 5 mjpfhuq;fs;) | | | | | | | | | | | | | | | |
| **myF:5** | | | | | **,aw;ifAk; ,iw khz;Gk;** | | **14 hours** | | | | | | | | |
| gj;Jg;ghl;L –jpUKUfhw;Wg;gil KOtJk;. | | | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | **2 hours** | | | | | | | | |
|  | | | | | **Total Lecture hours** | | **72 hours** | | | | | | | | |
| **ghl E}y;fs;** | | | | | | | | | | | | | | | |
| 1 | vl;Lj;njhif E}y;fs; | | | | | | | | | | | | | | |
| 2 | gj;Jg;ghl;L E}y;fs; | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | |
| 1 |  | | | | | | | | | | | | | | |
| 2 |  | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | |
| 1 | |  | | | | | | | | | | | | | |
| 2 | |  | | | | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | M | M | M | M | M | S | M | M | S |
| **CO3** | L | M | M | L | M | S | M | M | M | M |
| **CO3** | M | M | M | S | M | L | M | S | M | S |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | S | M | S | M | M | L | M | M | S | M |
|  |  |  |  |  |  |  |  |  |  |  |

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

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| **ghlf;FwpaPl;L vz;** | | | | | |  | | | | **ghlj;jiyg;G** | | | | | | | | | **L** | | | | **T** | | **P** | | **C** |
| **Kjd;ikg;ghlk;** | | | | | | | | | | jhs; - 15 jkpo;nkhop tuyhW | | | | | | | | | **4** | | | |  | | **-** | | **4** |
|  | | | | | | | | | |  | | | | | | | | | **ghlg;gpupT** | | | | |  | | | |
| **ghl Nehf;fk;** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. nkhop mikg;igAk; tuyhw;iwAk; vLj;Jiuj;jy; 2. jkpo; tup tbtq;fis mwpa itj;jy; 3. jkpopd; gpw nkhop fyg;G tuyhw;iw tpsf;Fjy; | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **gad;fs; :** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | nkhop tuyhw;wpid czu;jy; | | | | | | | | | | | | | | | | | | | | | K1 | | |
| 2 | | | | jkpo; gpuhkp fy;ntl;Lfisg; Gupe;J nfhs;Sjy; | | | | | | | | | | | | | | | | | | | | | K2 | | |
| 3 | | | | jkpo; nrhw;nlhlu; mikg;ig mwpjy; | | | | | | | | | | | | | | | | | | | | | K4 | | |
| 4 | | | | jkpopd; fpis nkhopfis mwpe;J nfhs;Sjy; | | | | | | | | | | | | | | | | | | | | | K3 | | |
| 5 | | | | muRg; Nghl;bj; Nju;TfSf;fhd tpopg;Gzu;Tg; ngWjy; | | | | | | | | | | | | | | | | | | | | | K5 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:1** | | | | | | |  | | | | | | | | | | | | | | **15 hours** | | | | | | |
| Njhw;Wtha; - nkhop mikg;Gk; tuyhWk; - nkhop tuyhw;Wr; rhd;Wfs; - njhy;-jpuhtpl nkhopAk; | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:2** | | | | | | |  | | | | | | | | | | | | | **13 hours** | | | | | | | |
| goq;fhyj;jkpo; - jkpo;g; gpuhkp fy;ntl;Lfspd; nkhop – njhy;fhg;gpaj; jkpo; - rq;f fhyj; jkpo; - rq;f kUtpa fhyj; jkpo; | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:3** | | | | | | |  | | | | | | | | | | | **14 hours** | | | | | | | | | |
| ,ilf;fhyj; jkpo; -gy;ytu; fhyj; jkpo; - Nrhou; fhyj;jkpo; - ehaf;fu; fhyj; jkpo; - kuhl;bau; fhyj; jkpo; | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:4** | | | | | | |  | | | | | | | | | | | **14 hours** | | | | | | | | | |
| jw;fhyj; jkpo; - gj;njhd;gjhk;> ,Ugjhk; E}w;whz;Lj; jkpo; - fy;ntl;Lj; jkpo; - jkpopy; gpw nkhopf; fyg;G – jkpo;f;; fpis nkhopfs; | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:5** | | | | | | |  | | | | | | | | | | **14 hours** | | | | | | | | | | |
| jkpo;r; nrhw;nghUs; khw;wk; - jkpo;j; njhlhpay;> jkpo; thptbt tuyhW | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **myF:6** | | | | | | |  | | | | | | | | | | **2 hours** | | | | | | | | | | |
| rk fhyr; rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;  Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy; | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | **Total Lecture hours** | | | | | | | | | | **72 hours** | | | | | | | | | | |
| **ghl E}y;** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | jkpo;nkhop tuyhW> R.rf;jpNty;> kzpthrfh; gjpg;gfk;.nrd;id | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | nj.ngh.kPdhl;rp Re;judhu; - jkpo; nkhop tuyhW – fht;ah gjpg;gfk;> nrd;id | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | #upaehuhaz rh];jpup (gupjpkhw; fiyQu;) - jkpo; nkhopapd; tuyhW –cyfj; jkpohuha;r;rp epWtdk;> nrd;id | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | |  | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | |  | | | | | | | | | | | | | | | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Mapping with Programme Outcomes** | | | | | | | | | | | | | | | | | | | | | | | | |
| **COs** | | | | **PO1** | | | **PO2** | **PO3** | | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | | | | | | **PO10** | | | |
| **CO1** | | | | M | | | M | M | | M | M | M | S | M | M | | | | | | S | | | |
| **CO3** | | | | L | | | M | M | | L | M | L | M | M | M | | | | | | M | | | |
| **CO3** | | | | M | | | M | M | | S | M | M | M | M | M | | | | | | S | | | |
| **CO4** | | | | S | | | L | M | | S | M | M | M | L | M | | | | | | M | | | |
| CO5 | | | | M | | | S | M | | M | M | S | M | M | L | | | | | | S | | | |
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\*S-Strong; M-Medium; L-Low

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | | **L** | | | **T** | | **P** | **C** |
| **tpUg;gg;ghlk; -II** | | | | | | m. Ml;rpj;jkpo; | | **4** | | | **-** | | **-** | **4** |
|  | | | | | |  | | **ghlg;gpupT** | | | |  | | |
| **ghl Nehf;fk;** | | | | | | | | | | | | | | |
| 1. Ml;rpj;jkpopd; tuyhw;iw mwpar; nra;jy; 2. nkhop tsu;r;rpNa ehl;bd; tsu;r;rp vd;gjid czu;j;Jjy; 3. jkpOf;F ehk; Mw;wNtz;ba ,d;wpaikahj flikiag; Gupa itj;jy; | | | | | | | | | | | | | | |
| **gad;fs;** | | | | | | | | | | | | | | |
| 1 | | | Ml;rp nkhopr; rl;lk; kw;Wk; jpl;lk; Fwpj;j mwpitg; ngWjy; | | | | | | | | | | K5 | |
| 2 | | | jkpo; tsu;r;rpj; Jiwf;F xj;Jiog;Gf; nfhLj;jy; | | | | | | | | | | K3 | |
| 3 | | | fiyr;nrhy; cUthf;ff; fw;Wf; nfhs;Sjy; | | | | | | | | | | K1 | |
| 4 | | | nkhopahf;fg; gzpapy; <LgLjy; | | | | | | | | | | K4 | |
| 5 | | | Ml;rpj; jkpo; tsu;r;rpg; gzpf;F cjTjy; | | | | | | | | | | K6 | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create | | | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | | | **15 hours** | | | | |
| Ml;rp nkhopj;jpl;lk; | | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | | **13 hours** | | | | | |
| rl;lq;fs; - Mizfs; Ml;rp nkhopAk; jkpo; tsh;r;rpj; JiwAk; | | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | | **14 hours** | | | | | |
| jpl;lr; nrayhf;f epiy –fiyr;nrhw;fs;; | | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | | **14 hours** | | | | | |
| nkhopahf;fk; - rpf;fy;fSk; jPH;TfSk; | | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | | | **14 hours** | | | | | |
| ghh;itf;Fk; gad;ghl;bw;Fk; | | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | | **2 hours** | | | | | |
|  | | | | | **Total Lecture hours** | | **72 hours** | | | | | | | |
| **ghl E}y;** | | | | | | | | | | | | | | |
| 1 | Ml;rpj;jkpo;> j. nghpahz;lth;> tsh;jkpo; gjpg;gfk;> 40> mQ;Rfk; efh;> nrd;id-600095. | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | |
| 1 | Kidtu; eh.uhrNfhghyd; - jkpo; Ml;rp nkhop rpf;fy;fSk; jPu;TfSk;> md;G gjpg;gfk;>nrd;id | | | | | | | | | | | | | |
| 2 | Gytu; eh.Re;juuhrd; - jkpo; Ml;rp nkhop> kzpthrfu; gjpg;gfk;> nrd;id | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | |
| 1 | |  | | | | | | | | | | | | |
| 2 | |  | | | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | M | M | L | M | M | S | M | M | L |
| **CO3** | L | M | M | L | M | L | M | M | M | M |
| **CO3** | M | L | M | L | S | M | S | M | S | M |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | S | M | M | S | M | S | M | M | L | M |
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\*S-Strong; M-Medium; L-Low

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| **ghlf;FwpaPl;L vz;** | | | |  | | **TITLE OF THE COURSE** | **L** | | | **T** | **P** | | **C** |
| **tpUg;gg;ghlk; -II** | | | | | | M.Nfhapw;fiyfs; | **4** | | | **-** | **-** | | **4** |
|  | | | | | |  | **ghlg;gpupT** | | | | |  | |
| **ghl Nehf;fk;** | | | | | | | | | | | | | |
| 1. gz;ilj;jkpoupd; fiy mwpit mwpar; nra;jy; 2. fiyiaf; fw;Fk; Mu;tj;ijj; J}z;Ljy; 3. jkpo;ehl;L Nfhapy;fisf; fhy tupirapy; xg;gpl;L mbg;gil mwpT ngWjy; | | | | | | | | | | | | | |
| **gad;fs; :** | | | | | | | | | | | | | |
| 1 | | | rq;f fhyk; cs;spl;l fiyfis mwpe;J fiy mwpT ngWjy; | | | | | | | | K1 | | |
| 2 | | | Mfk tpjpfs;> Nfhapy; ,yf;fzk; cs;spl;l Jiwfspy; ty;Yeu; MFjy; | | | | | | | | K3 | | |
| 3 | | | fhye;NjhWk; Nfhtpy;fspd; mikg;gpy; mile;Js;s khw;wj;ij mwpjy; | | | | | | | | K4 | | |
| 4 | | | NfhGu epiyfs; Fwpj;j mwptpidg; ngWjy; | | | | | | | | K5 | | |
| 5 | | | rpw;gf; fiyapy; rpwe;j jpwd; ngWjy; | | | | | | | | K6 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create | | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | | **15 hours** | | | | |
| rq;ffhyf; fiy –fl;blf; fiy –Xtpaf;fiy –rpw;gf; fiy - ,irf;fiy> $j;J –ehlfk;. | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | **13 hours** | | | | | |
| jkpo;ehl;Lf; Nfhtpy;fs; - kd;dh; vLg;gpj;j Nfhtpy;fs; - Njtpah; vLg;gpj;j Nfhtpy;fs; - Nfhtpy;fspd; tif –kid E}y;fs; - Mfkq;fs; - Nfhtpy; ,yf;fzk; | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | **14 hours** | | | | | |
| jkpoff; Nfhapy;fspd; tuyhW - gy;yth; fhy xw;iwf; fw;Nfhtpy;fs; - fl;blf; Nfhtpy;fs; - jpUtjpif tPul;lhdk; - ghz;bah; fhyk; - ntl;Lthd; Nfhtpy; - mjpakhd; Nfhtpy;fs; - Nrhoh;fhyk; - tp[ahyah; - mfpj;jd; - gONtl;liuah; guhe;jfd; - nrk;gpad; khNjtp - ,uh[uh[d; - ,uhN[e;jpu Nrhod; Kjypath;fshy; fl;lg;gl;l Nfhapy;fs; | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | **14 hours** | | | | | |
| jkpo;ehl;Lr; Nrhoh;fs; - ,uh[rpk;k gy;ytd; fl;ba NfhGuq;fs; - tpkhdq;fs; - jpy;iyf; NfhGuk; - tp[aefug; Nguurh; fhyf; NfhGuq;fs; - ,uhah; NfhGuq;fs; | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | | **14 hours** | | | | | |
| jkpo;ehl;Lr; rpw;gq;fs; - Rij cUtq;fs; - fw;rpw;gq;fs; - Nrhoh;fhyr; nrg;Gj; jpUNkdpfs; - nra;Kiw –jkpof Xtpaq;fs;. | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | **2 hours** | | | | | |
|  | | | | | **Total Lecture hours** | | | **72 hours** | | | | | |
| **ghl E}y;** | | | | | | | | | | | | | |
| 1 | jkpoff; Nfhapw;fiy –njhy;nghUs; Ma;Tj;Jiw ntspaPL | | | | | | | | | | | | |
| 2 | lhf;lh; V.Vfhk;guehjd; - jkpofr; rpw;g Xtpaf; fiyfs;> fof ntspaPL> | | | | | | | | | | | | |
| 3 | jp.,uhrkhzpf;fk; - ,e;Jrkaf; flTs;fspd; jpUTUtq;fs;> fof ntspaPL. | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | |
| 1 | mk;ig kzptz;zd; - jkpoff; Nfhapy;fspd; tuyhW – V.Mu;. gg;spf;Nf\d;];> nrd;id | | | | | | | | | | | | |
|  | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | |
| 1 | |  | | | | | | | | | | | |
| 2 | |  | | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | M | S | M | M | M | S | M | M | M |
| **CO3** | L | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | S | M | M | M | M | M | M |
| **CO4** | M | S | M | M | M | S | M | L | M | M |
| CO5 | M | M | L | M | M | L | S | M | M | S |
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\*S-Strong; M-Medium; L-Low

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | | | **L** | | | **T** | **P** | | **C** |
| **tpUg;gg;ghlk; - II** | | | | | | ,. ,e;jpaj; jj;Jtk; | | | **4** | | | **-** | **-** | | **4** |
|  | | | | | |  | | | **ghlg;gpupT** | | | | |  | |
| **ghlNehf;fk;** | | | | | | | | | | | | | | | |
| 1. Ntj cgepljq;fspd; cl;fUj;ij mwpa itj;jy; 2. Ntj epiy fle;j rkaf; fUj;Jfis tpsf;Fjy; 3. mwpT epiyf;F ,l;Lr; nry;Yk; rpj;jhe;j kuGfis vLj;Jiuj;jy; | | | | | | | | | | | | | | | |
| **gad;fs; :** | | | | | | | | | | | | | | | |
| 1 | | | ,e;jpahtpy; Ntj cgepljq;fs; Fwpj;J njupe;J nfhs;sy; | | | | | | | | | | K1 | | |
| 2 | | | itjPfj;jpy; epd;Wk; khWgl;l mitjPfj; jj;Jtq;fis mwpjy; | | | | | | | | | | K1 | | |
| 3 | | | Itif juprdk; top cyF mwpT ngWjy; | | | | | | | | | | K5 | | |
| 4 | | | Ntjhe;j fUj;Jf;fs; top tho;tpaiy mZFjy; | | | | | | | | | | K4 | | |
| 5 | | | irtrpj;jhe;jk; vd;Dk; mwpT epiy jj;Jtj;ij topghl;L KiwNahL xg;gpl;L rPtid rptdhf;Fjy; | | | | | | | | | | K4 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create | | | | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | | | | **15 hours** | | | | |
| Ntj cgepljq;fs; | | | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | | | **13 hours** | | | | | |
| mitjpf jj;Jtq;fs; | | | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | **14 hours** | | | | | | | |
| Itif jhprdk; | | | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | **14 hours** | | | | | | | |
| %tif Ntjhe;jk; | | | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | **14 hours** | | | | | | | | |
| irt rpj;jhe;jk; | | | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | **2 hours** | | | | | | | | |
|  | | | | | **Total Lecture hours** | | **72 hours** | | | | | | | | |
| **ghl E}y;** | | | | | | | | | | | | | | | |
| 1 | ,e;jpaj; jj;JtQhdk; - fp.,yl;Rkzd;> godpag;gh gpuju;];> nrd;id | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | |
| 1 | v];.Njhjj;jpup> ,e;jpaj; jj;Jtk;> epA+ nrQ;Rup Gf; `T];> nrd;id | | | | | | | | | | | | | | |
| 2 | n[.fpU~;z %u;j;jp - ,e;jpaj; jj;Jtk; Xu; mwpKfk;> ghujp Gj;jfhyak;> nrd;id | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | |
| 1 | |  | | | | | | | | | | | | | |
| 2 | |  | | | | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | M | M | M | M | M | S | M | S | M |
| **CO3** | M | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | S | M | M | L | M | S | M |
| **CO4** | S | S | M | M | L | M | M | L | M | M |
| CO5 | M | M | L | M | M | S | M | L | M | M |
|  |  |  |  |  |  |  |  |  |  |  |

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

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | **L** | | **T** | **P** | | **C** |
| **tpUg;gg;ghlk; - III** | | | | | | m. nkhopngah;g;gpay; | **4** | | **-** | **-** | | **4** |
|  | | | | | |  | **ghlg;gpupT** | | | |  | |
| **ghl Nehf;fk;** | | | | | | | | | | | | |
| 1. nkhopngau;g;Gj; Jiwapd; Kf;fpaj;Jtj;ij mwpTWj;jy; 2. nkhopngau;g;G El;gq;fisf; fw;Wf; nfhLj;jy; 3. nkhopngau;g;G Jiwapd; Nghf;if vLj;Jiuj;jy; | | | | | | | | | | | | |
| **gad;fs;** | | | | | | | | | | | | |
| 1 | | | nkhopngau;g;G Mw;wy; ngWjy; | | | | | | | K5 | | |
| 2 | | | jkpo; Mq;fpy ,yf;fzg; xg;gha;T rpe;jidiag; ngWjy; | | | | | | | K3  K5 | | |
| 3 | | | gilg;ghw;wy; kw;Wk; ,yf;fzg; Gyik miljy; | | | | | | | K6 | | |
| 4 | | | ,Unkhopg; Gyik ngWjy; | | | | | | | K3 | | |
| 5 | | | muR Nghl;bj; Nju;TfSf;fhdj; jFjp miljy; | | | | | | | K5 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | **15 hours** | | | | |
| nkhopngah;g;gpd; Njhw;wKk; tsh;r;rpAk; - nkhop ngah;g;G –tpsf;fk; | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | **13 hours** | | | | |
| nkhopngah;g;gpd; tiffs; - Nfhl;ghLfs; - nkhopngah;g;gpd; newpKiwfs; | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | **14 hours** | | | | |
| nkhopngah;g;gpd; epfud;fs; - nkhop ngah;g;gpd; rpf;fy;fs; | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | **14 hours** | | | | |
| fiyr;nrhy;yhf;fk; - nkhopngah;g;Gj; jFjpfs; | | | | | | | | | | | | |
| **myF:5** | | | | |  | | | **14 hours** | | | | |
| nkhopngah;g;gpd; Nehf;fKk; gaDk; - jkpopd; nkhop ngah;g;Gfs; | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | **2 hours** | | | | |
|  | | | | | **Total Lecture hours** | | | **72 hours** | | | | |
| **ghl E}y;** | | | | | | | | | | | | |
| 1 | nkhopngah;g;gpay;> e.KUNfr ghz;bad;> caph; vOj;J gjpg;gfk;> fU kz;lgk;> jpUr;rp-1. | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | |
| 1 | KUifad; - nkhopngau;g;G El;gk; - Xu; mwpKfk;> Fkud; Gj;jf ,y;yk;> nrd;id | | | | | | | | | | | |
| 2 | R.rz;KfNtyhAjk; - nkhopngau;g;gpay; - cyfj; jkpohuha;r;rp epWtk;> nrd;id | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | |
| 1 | |  | | | | | | | | | | |
| 2 | |  | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | M | M | M | M | M | S | M | M | S |
| **CO3** | S | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | S | M | M | M | M | M | M |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | M | M | L | M | M | S | M | M | S | L |
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\*S-Strong; M-Medium; L-Low

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | **L** | | **T** | **P** | | **C** |
| **tpUg;gg;ghlk;- III** | | | | | | M. Rw;Wyhtpay; | **4** | | **-** | **-** | | **4** |
|  | | | | | |  | **ghlg;gpupT** | | | |  | |
| **ghl Nehf;fk;** | | | | | | | | | | | | |
| 1. Rw;Wyh tsu;r;rp Fwpj;J vLj;Jiuj;jy; 2. Rw;wyhj; Jiwapy; Vw;gLk; ed;ikfs; kw;Wk; nghUshjhu tpisTfis mwpa itj;jy; 3. ,d;iwa cyfshtpa Nehf;fpy; Rw;Wyh Fwpj;j gue;Jgl;l mwpit Nkk;gLj;Jjy; | | | | | | | | | | | | |
| **gad;fs; :** | | | | | | | | | | | | |
| 1 | | | Rw;Wyh Fwpj;j mbg;gil mwpT ngWjy; | | | | | | | K1 | | |
| 2 | | | gazpfs; Fwpj;j nra;jpfSk; Rw;Wyh jpl;lkpLjy; Fwpj;Jk; mwpe;J nfhs;Sjy; | | | | | | | K3 | | |
| 3 | | | Rw;Wyh fofq;fs; Fwpj;j mwpT ngWjy; | | | | | | | K2 | | |
| 4 | | | gazg; Nghf;Ftuj;J Fwpj;j nra;jpfis mwpe;J nfhs;sy; | | | | | | | K3 | | |
| 5 | | | gaz Kftu;fshfTk; topfhl;bahfTk; Ntiy tha;g;Gg; ngWjy; | | | | | | | K5 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | **15 hours** | | | | |
| Rw;Wyh xU tpsf;fk; - cyfehLfspy; Rw;Wyh tsh;r;rp –jkpo;ehl;by; Rw;Wyh tsh;r;rp | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | **13 hours** | | | | |
| gd;dhl;Lg; gytifg; gazpfs; - Rw;Wyhg; gazpfs; gw;wpa Gs;sp tptuq;fs; - Rw;Wyh jpl;lkply; - Rw;Wyh Nkk;ghL | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | **14 hours** | | | | |
| Rw;Wyhtpay; - nghUshjhu tpisTfs; - Rw;Wyhf; fofq;fs; - Rw;Wyh –Rw;Wyh tzpfr; re;ij | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | **14 hours** | | | | |
| gaz Kfth;fs; - topfhl;bfs; | | | | | | | | | | | | |
| **myF:5** | | | | |  | | | **14 hours** | | | | |
| gy;NtW Nghf;Ftuj;Jfs; - jkpo; ,yf;fpaj;jpy; gazE}y;fs; | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | | **2 hours** | | | | |
|  | | | | | **Total Lecture hours** | | | **72 hours** | | | | |
| **ghl E}y;** | | | | | | | | | | | | |
| 1 | Rw;Wyh tsh;r;rp> nt.fpUl;bzrhkp> kzpthrfh; gjpg;gfk;> 8/7> rpq;fh; njU> ghhpKid> nrd;id –600 108. | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | |
| 1 | v];.Mu;.<];tud; - Rw;Wyhtpay;> ghit gg;spf;Nf\d;];> nrd;id | | | | | | | | | | | |
| 2 | Kidtu; fkyk; rq;fu; - Rw;WyhTk; gpw JiwfSk;> epA+ nrQ;Rup Gf; `T];> nrd;id | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | |
| 1 | | [www.tamildigitallibrary.in](http://www.tamildigitallibrary.in) | | | | | | | | | | |
| 2 | | [www.tamilkalvi.in](http://www.tamilkalvi.in) | | | | | | | | | | |
| 3 | | [www.tamilsurangam.in](http://www.tamilsurangam.in) | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | M | M | M | M | M | M | S | M | M | L |
| **CO3** | L | M | M | L | M | L | M | M | M | M |
| **CO3** | S | M | M | S | M | M | L | M | M | S |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | S | M | M | L | M | S | M | M | L | S |
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\*S-Strong; M-Medium; L-Low

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| **ghlf;FwpaPl;L vz;** | | | |  | | **ghlj;jiyg;G** | | | **L** | | | **T** | **P** | | **C** |
| **rhu;Gg;ghlk;** | | | | | | jhs; - 4 ,yf;fpak; | | | **3** | | | **-** | **-** | | **3** |
|  | | | | | |  | | | **ghlg;gpupT** | | | | |  | |
| **ghl Nehf;fk;** | | | | | | | | | | | | | | | |
| 1. jw;fhy ,yf;fpaj;jpd; Nehf;Fk; Nghf;Fk; mwpa itj;jy; 2. nra;As; eaq;fis vLj;Jiuj;jy; 3. gilg;ghw;wy; jpwid Nkk;gLj;Jjy; | | | | | | | | | | | | | | | |
| **gad;fs;** | | | | | | | | | | | | | | | |
| 1 | | | ftpij cUthf;Fjy; | | | | | | | | | | K6 | | |
| 2 | | | thrpg;G jpwd; ngWjy; | | | | | | | | | | K5 | | |
| 3 | | | ehlf trdk; vOJjy; | | | | | | | | | | K3 | | |
| 4 | | | gilg;ghw;wy; jpwd; ngWjy; | | | | | | | | | | K6 | | |
| 5 | | | nkhopg;ngau;f;Fk; Mw;wiy tsu;j;Jf; nfhs;Sjy; | | | | | | | | | | K5 | | |
| **K1** - Remember; **K2** - Undestand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create | | | | | | | | | | | | | | | |
| **myF:1** | | | | |  | | | | | | **15 hours** | | | | |
| kuGf;ftpij –GJf;ftpij Gidjy; - ntz;gh vOJjy; - ghf;fis cuf;f thrpj;jy; - jhyhl;L –Foe;ij –tpLfij –ehL –njk;khq;F –mk;khid –Fk;kp –Nfhyhl;lg;ghly;fs; Njh;e;njLj;J mwpjy;. | | | | | | | | | | | | | | | |
| **myF:2** | | | | |  | | | | | **13 hours** | | | | | |
| nra;As; eyk; ghuhl;ly; - Nkhid –vJif - ,iaG> fUj;J> tbtk; gw;wp jpwdha;jy; - nfhLf;fg;gl;l nra;Aspd; fUj;jpid vOJjy;. | | | | | | | | | | | | | | | |
| **myF:3** | | | | |  | | | **14 hours** | | | | | | | |
| nra;As; ehlfk; - ciueil ehlfk; - Xuq;f ehlfk; - ghujp –ghujpjhrd; - ftp kzp gilg;Gf;fspy; VNjDk; xd;iwj; Njh;e;njLj;J thrpj;jy; - nrhe;jkhf gilg;Gj;jpwid tsh;j;jy; - vOJjy;. | | | | | | | | | | | | | | | |
| **myF:4** | | | | |  | | | **14 hours** | | | | | | | |
| nra;jpj;jhs; mikg;Gk;> fl;LiufSk; - fy;Y}hp Mz;lwpf;if –tpisahl;L> rq;f mwpf;iffs; jahhpj;jy; - thu> khj ,jo;fspy; thrpj;jYk; vOJjYk;> fbj ,yf;fpak; - mz;zhtpd; fbjq;fs;> fbjk; vOJjy; - gazf; fl;Liufs; - Md;kPff; fl;Liufs; vOJjy;. | | | | | | | | | | | | | | | |
| **myF:5** | | | | |  | | **14 hours** | | | | | | | | |
| tpz;zg;gk; vOJk; Kiw –Mq;fpyj;jpYs;s tzpfk;. muRrhh;G mYtyf fbjj;ij jkpopy; nkhopngah;j;jy; - gpwnkhop Fwpg;ghf njYq;F. fd;dlk;> kiyahsk; Mfpa jpuhtpl nkhopfspd; jkpo; nkhopg;ngah;g;G ,yf;fpaq;fs;> ftpij> rpWfij Njh;e;njLj;J thrpj;jy;. | | | | | | | | | | | | | | | |
| **myF:6** | | | | | **rk fhy rpf;fy;fis ikag;gLj;jp tiyj;jsf; fUj;juq;fk; elj;Jjy;**  **Jiw ty;Yeu;fis mioj;J gapyuq;fk; elj;Jjy;** | | **2 hours** | | | | | | | | |
|  | | | | | **Total Lecture hours** | | **72 hours** | | | | | | | | |
| **ghl E}y;fs;** | | | | | | | | | | | | | | | |
| 1 |  | | | | | | | | | | | | | | |
| 2 |  | | | | | | | | | | | | | | |
| **ghu;it E}y;fs;** | | | | | | | | | | | | | | | |
| 1 | R.gl;lhgpuhkd; -nkhopg;gad;ghL –vd;.rp.gp.n`r;. ntspaPL. | | | | | | | | | | | | | | |
| 2 | fp.th. [fe;ehjd; - ftpghlyhk; - kzpthrfh; E}yfk;> nrd;id –1 | | | | | | | | | | | | | | |
| 3 | K. Rje;jpuKj;J - gilg;Gfs; - RtL gjpg;gfk;> nrd;id –24 | | | | | | | | | | | | | | |
| 4 | Kidth; r. jpUQhdrk;ge;jk; - ntz;ghf;fl;Ltjpy; Gjpa cj;jpKiw –,izg; Nguhrphpah;> jkpo;j;Jiw> murh; fy;Y}hp> jpUitahW. | | | | | | | | | | | | | | |
| 5 | lhf;lu; R.rf;jpNty; - ehl;Lg;Gwg; ghly;fs; -.kzpthrfu; gjpg;gfk;> nrd;id | | | | | | | | | | | | | | |
| **Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]** | | | | | | | | | | | | | | | |
| 1 | |  | | | | | | | | | | | | | |
| 2 | |  | | | | | | | | | | | | | |
| Course Designed By: **Kidtu; g.fkyf;fz;zd;**  ,izg;Nguhrpupau; kw;Wk; Jiwj;jiytu;  jkpo;j;Jiw  rpf;fa;a eha;f;fH fy;Y}up><NuhL  [**kamalan1964@gmail.com**](mailto:kamalan1964@gmail.com) | | | | | | | | | | | | | | | |

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| **Mapping with Programme Outcomes** | | | | | | | | | | |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **CO1** | S | M | M | M | S | M | L | M | M | S |
| **CO3** | L | M | M | L | M | L | M | M | M | M |
| **CO3** | M | M | M | S | L | M | M | S | M | L |
| **CO4** | M | S | M | M | L | M | M | L | M | M |
| CO5 | S | M | L | S | M | S | L | M | M | L |
|  |  |  |  |  |  |  |  |  |  |  |

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

**General Instructions:**

1. **Elective Courses:** Minimum Two for Each Semester.
2. **Supportive Courses:** Minimum One for first three Semesters.
3. **Value Added Courses:** Minimum 2 and maximum 5 for Each Department for Entire Program
4. **Job Oriented Certificate Courses:** Two Courses (Each one on First and Second Year)
5. All the Board of Studies are requested to follow the same template and use the TIMES NEW ROMAN FONT with the Size of 12.
6. The Course Designer should be mentioned in each of the corses.