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| **24UTAL101** | | **nghJj;jkpo; - I** | **பருவம் - I** | | |
| இப்பாடத்திட்டத்தின் நோக்கங்களாவன   * jw;fhy ,yf;fpa tiffis khzth;fSf;Ff; fw;gpj;jy; * fhye;NjhWk; jkpo; ftpij tsh;rprp epiyfs; kw;Wk; rpWfijfis mwpKfg;gLj;Jjy;. * ehl;Lg;Gw ,yf;fpaq;fspd; top tho;f;if $WfisAk;> ,yf;fpak;> ,yf;fzj;jpy; rpwg;GfisAk; czh;j;Jjy;. | | | | | |
| **Credits: 3 Total Hours: 50** | | | | | |
| **UNIT** | ***CONTENTS*** | | | **Hrs** | **CO** |
| I | ftpijfs;  m) nghz; fz;zfp – fhyk;khwpg;Nghr;R  M) mwpTkjp–(Njh;e;njLf;fg;gl;l  30ftpij–Gy;ypd; Edpapy; gdpj;Jsp i`f;$ftpijfs;)  ,) ituKj;J – kuq;fisg;ghLNthk;  <) rpw;gp – mq;fPfhpf;fglhj fhjy; | | | 10 | **CO1** |
| II | rpWfijfs;  m) GJikg;gpj;jd; - flTSk; fe;jrhkp gps;isAk;  M) Mz;lhs; gphpajh;\pdp – khj;jpiu  ,) Gypf;fiyQd; - mNrhfkpj;jpud;  <) uh[h te;jpUf;fpwhh; - F.mofphprhkp | | | 10 | **CO2** |
| III | ehl;Lg;Gwtpay; - ghly;fs;> tpisahl;Lfs;  m) jhyhl;Lg;ghly;fs; - jhapd; fdTfs;  M) fhjy; ghly;fs; - fpspak;kh> fUj;j Gs;s.  ,) njhopy; ghly;fs; - fisnaLg;G  <) xg;ghhp ghly;fs;  c) rpWth;> rpWkpah; tpisahl;L – Mlth;> kfsph; tpisahl;Lfs; | | | 10 | **CO3** |
| IV | ,yf;fpa tuyhW  m) kuGf;ftpij Njhw;wk; tsh;r;rp  M) GJf;ftpij Njhw;wk; tsh;r;rp  ,) rpWfij Njhw;wk; tsh;r;rp  <) ehl;Lg;Gwtpay;> ghly;fs;> tpisahl;Lfs; mwpKfk; | | | 10 | **CO4** |
| V | ,yf;fzk; - nghUs; ,yf;fzk;  m) gFgj cWg;gpyf;fzk;  M) gpwnkhopr; nrhw;fis jkpo; nrhw;fshf khw;Wjy;  ,) mfj;jpiz> Gwj;jpiz | | | 10 | **CO5** |
| **பாடநூல்** | | | | | |
| 1. jkpo;j;Jiw ntspaPL | | | | | |
| **பார்வை நூல்கள்** | | | | | |
| jkpoz;zy;> Gjpa Nehf;fpy; jkpo; ,yf;fpa tuyhW> kPdhl;rp Gj;jf epiyak;> kJiu – 2017.  ituKj;J ftpijfs;> ituKj;J gjpg;gfk; jpUkfs; epiyak;. | | | | | |

**COURSE OUTCOMES(CO)**

இப்பாடத்தைக் கற்பதன் வாயிலாக மாணவர்கள் பெறும் பயன்களாவன

|  |  |
| --- | --- |
| **CO1** | ftpijfspd; rpwg;Gfis $Wjy; |
| **CO2** | rpWfijfspd; jd;ikfis $Wjy; |
| **CO3** | ehl;Lg;Gw ,yf;fpaq;fspd; top tho;f;if $Wfis mwpjy; |
| **CO4** | ,yf;fpa tuyhw;wpd; Njhw;w tsh;r;rpid mwpjy; |
| **CO5** | mbg;gil ,yf;fzj;ij mwpjy;. |

**MAPPING**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PSO**  **CO** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** |
| **CO1** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **M** | **M** | **M** |
| **CO2** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **M** | **M** | **M** |
| **CO3** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **M** | **M** | **M** |
| **CO4** | **H** | **L** | **L** | **L** | **L** | **L** | **H** | **M** | **M** | **M** |
| **CO5** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **M** | **M** | **M** |

**H – High; M – Medium ; L - Low**

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| **24UTAL201** | | **nghJj;jkpo; - II** | **பருவம் - II** | | |
| இப்பாடத்திட்டத்தின் நோக்கங்களாவன   * Ik;ngUq;fhg;gpaq;fspd; %yk; goq;fhg;gpa epfo;Tfs; kw;Wk; mikg;G Kiwfis vLj;Jiuj;jy;. * gpwfhg;gpaq;fs; %yk; tuyhw;W epfo;Tfis khzth;fSf;F mwpKfk; nra;jy; * rpw;wpyf;fpaq;fspy; top tho;tpay; Kiwia czh;j;Jjy; | | | | | |
| **Credits: 3 Total Hours: 50** | | | | | |
| **UNIT** | ***CONTENTS*** | | | **Hrs** | **CO** |
| I | rpyg;gjpfhuk; - tof;Fiu fhij  kzpNkfiy – kyh;tdk; Gf;f fhij | | | 10 | **CO1** |
| II | **gpwfhg;gpaq;fs;**  m) fk;guhkhazk; - thyptij glyk;  M) nghpaGuhzk; - ,isahd;Fb khwehadh; Guhzk; | | | 10 | **CO2** |
| III | **rpw;wpyf;fpaq;fs;**  m) fypq;fj;Jg;guzp – Nghh; gbahJ  M) Fw;whyf; FwtQ;rp – kiytsk; | | | 10 | **CO3** |
| IV | m) fhg;gpaj;jpd; Njhw;wk; tsh;r;rp – Ik;ngUk;fhg;gpaq;fs;> IQ;rpWfhg;gpaq;fs; - mwpKfk;  M) rpw;wpyf;fpak; Njhw;wk; tsh;r;rp | | | 10 | **CO4** |
| V | **,yf;fzk;**  m) MFg;ngah;  M) kaq;nfhypr;nrhw;fs; - 8 (u>w NtWghLfs;)  ,) mYtyfk; rhh;e;j fbjq;fs;> kDf;fy; vOJjy; | | | 10 | **CO5** |
| **பாடநூல்** | | | | | |
| 1. jkpo;j;Jiw ntspaPL | | | | | |
| **பார்வை நூல்கள்** | | | | | |
| jkpoz;zy;> Gjpa Nehf;fpy; jkpo; ,yf;fpa tuyhW> kPdhl;rp Gj;jf epiyak;> kJiu – 2017.  rpyg;gjpfhuk; – GypA+h;Nfrpfd;> ghhp epiyak;> nrd;id – 2015.  fypq;fj;Jg;guzp – rhujh gjpg;gfk;> nrd;id- 2021. | | | | | |

**COURSE OUTCOMES(CO)**

இப்பாடத்தைக் கற்பதன் வாயிலாக மாணவர்கள் பெறும் பயன்களாவன

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| --- | --- |
| **CO1** | fhg;gpaq;fspd; rpwg;Gfis mwpjy; |
| **CO2** | gpw fhg;gpaq;fspd; jd;ikfis mwpjy; |
| **CO3** | rpw;wpyf;fpaq;fs; gw;wp mwpjy; |
| **CO4** | fhg;gpaq;fs;> rpw;wpyf;fpaq;fspd; Njhw;wk;> tsh;r;rpapid mwpjy; |
| **CO5** | fbjk; vOJjy;> ,yf;fzk; gw;wp mwpjy; |

**MAPPING**

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| **PSO**  **CO** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** |
| **CO1** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **M** | **M** | **M** |
| **CO2** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **M** | **M** | **M** |
| **CO3** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **M** | **M** | **M** |
| **CO4** | **H** | **H** | **H** | **H** | **H** | **L** | **H** | **M** | **M** | **M** |
| **CO5** | **H** | **L** | **L** | **L** | **L** | **H** | **H** | **M** | **M** | **M** |

**H – High; M – Medium ; L - Low**

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| **23UTAL301** | | **nghJj;jkpo; - III** | **பருவம் - III** | | |
| இப்பாடத்திட்டத்தின் நோக்கங்களாவன   * rkaq;fs; gw;wp mwpKfk; nra;jy; * rka ,yf;fpaq;fs; gw;wp khzth; mwpAkhW nra;jy; * gpw ePjp ,yf;fpaq;fs; %yk; khzth;fSf;F mwj;jpid typAWj;Jjy; | | | | | |
| **Credits: 3 Total Hours: 50** | | | | | |
| **UNIT** | ***CONTENTS*** | | | **Hrs** | **CO** |
| I | irtk;> itzk;  m) jpUQhdrk;ge;jh; - NfhsW gjpfk;  M) FyNrfuho;thh; - ngUkhs; jpUnkhop- jpUg;gjpapy; gpwf;f mthTWjy;. | | | 10 | **CO1** |
| II | fpUj;Jt ,];yhkpa ,yf;fpaq;fs;  m) fz;zhjrd; - ,NaR fhtpak; -rpYitghL (Kjy; 10 ghly;)  M) rPwhg;Guhzk; - EGtj;Jf;fhz;lk; - khDf;Fg;gps;is epd;w glyk; | | | 10 | **CO2** |
| III | gpwePjp ,yf;fpaq;fs;  m) nfhd;iw Nte;jh; - Kjy; 20 ghly;fs;  M) ntw;wp Ntw;if - Kjy; 20 ghly;fs;  ,) ePjpnewp tpsf;fk; - Kjy; 5 ghly;fs;  <) cyfePjp - Kjy; 5 ghly;fs;  c)%Jiu -Kjy; 5 ghly;fs; | | | 10 | **CO3** |
| IV | rka ,yf;fpa tuyhW  m) irtk; Njhw;wk; tsh;r;rp  M) itztk; Njhw;wk; tsh;r;rp  ,) fpwpj;Jt Njhw;wk; tsh;r;rp  <) ,];yhk; Njhw;wk; tsh;r;rp  c)gpw;fhy ePjp ,yf;fpaq;fs; mwpKfk; | | | 10 | **CO4** |
| V | ,yf;fzk;  m) mzpapyf;fzk;  1. jw;Fwpg;Ngw;w mzp  2. ctikazp  3. gpd;tUepiyazp  4. cUtf mzp  5. tQ;rGfo;r;rpazp  6. cah;T etpw;rpazp  7. epuy;epiwazp  8. ,ul;Lw nkhopjy; mzp  M) nkhopg;ngah;g;G (Mq;fpyk; - jkpo;) | | | 10 | **CO5** |
| **பாடநூல்** | | | | | |
| 1. jkpo;j;Jiw ntspaPL | | | | | |
| **பார்வை நூல்கள்** | | | | | |
| j.Nfh.Nte;jd;> ehyhapujpt;a gpuge;jk;> rhujh gjpg;gfk;> nrd;id> 2017  jkpoz;zy;> Gjpa Nehf;fpy; jkpo; ,yf;fpa tuyhW> kPdhl;rp Gj;jf epiyak;> kJiu – 2017.  jz;bayq;fhuk;> fof ntspaPL. | | | | | |

**COURSE OUTCOMES(CO)**

இப்பாடத்தைக் கற்பதன் வாயிலாக மாணவர்கள் பெறும் பயன்களாவன

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| --- | --- |
| **CO1** | gf;jp ,yf;fpaq;fs;> nkhop tsh;r;rpf;F cjtpaijf; $Wjy;. |
| **CO2** | rka ,yf;fpaq;fs; gw;wp mwpjy; |
| **CO3** | ePjp ,yf;fpaq;fs; top mwj;ij typAWj;Jjy; |
| **CO4** | rka ,yf;fpaq;fs; Njhw;wk; tsh;r;rpia mwpjy;. |
| **CO5** | nkhopapd; mbg;gil ,yf;fzj;ij mwpjy;. |

**MAPPING**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PSO**  **CO** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** |
| **CO1** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **M** | **M** | **M** |
| **CO2** | **H** | **L** | **L** | **L** | **L** | **L** | **H** | **M** | **M** | **M** |
| **CO3** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **M** | **M** | **M** |
| **CO4** | **H** | **M** | **M** | **M** | **M** | **M** | **H** | **M** | **M** | **M** |
| **CO5** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **M** | **M** | **M** |

**H – High; M – Medium ; L - Low**

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| **23UTAL401** | | **nghJj;jkpo; - IV** | **பருவம் - IV** | | |
| இப்பாடத்திட்டத்தின் நோக்கங்களாவன   * rq;f ,yf;fpaq;fis mwpKfk; nra;jy;. * mw ,yf;fpaq;fs; gw;wp khzth;fs; mwpa nra;jy; * ,yf;fpa tuyhWfis mwpa itj;jy; | | | | | |
| **Credits: 3 Total Hours: 50** | | | | | |
| **UNIT** | ***CONTENTS*** | | | **Hrs** | **CO** |
| I | rq;f ,yf;fpak; (vl;Lj;njhif)  m) FWw;njhif – ghly; 2>3>4>40>167  M) fypj;njhif – ghly; 1-15  ,) GwehD}W – ghly; 3>112  <) Iq;FWE}W – Ntl;ifg;gj;J (Kjy; 15 ghly;fs;) | | | 10 | **CO1** |
| II | rq;f ,yf;fpak; (gj;Jg;ghl;L)  m) Ky;iyg;ghl;L KOtJk; (103 thpfs;) | | | 10 | **CO2** |
| III | mw ,yf;fpak;  m) jpUf;Fws; - tpUe;Njhk;gy;  M) ehybahh; - fy;tp (Kjy; 5 ghly;fs;)  ,) ,dpait ehw;gJ – Kjy; 5 ghly;fs;  <) KJnkhopf;fhQ;rp – jz;lhg;gj;J | | | 10 | **CO3** |
| IV | ,yf;fpa tuyhW  m) Kr;rq;f tuyhW mwpKfk;  M) vl;Lj;njhif E}y;fs;  ,) gj;Jg;ghl;L E}y;fs;  <) gjpndz;fPo;f;fzf;F E}y;fs; | | | 10 | **CO4** |
| V | ,yf;fzk;  m) ty;ypdk; kpFk;kpfh ,lq;fs;  M) jd;tpid> gpwtpid> nra;tpid>  nra;ghl;Ltpid thf;fpaq;fs;  ,) Neh;fhzy; | | | 10 | **CO5** |
| **பாடநூல்** | | | | | |
| 1. jkpo;j;Jiw ntspaPL  . | | | | | |
| **பார்வை நூல்கள்** | | | | | |
| r.Nt.Rg;gpukzpak;> gjpnzd;fPo;f;fzf;F E}y;fs;> kzpthrfh; gjpg;gfk;> nrd;id> 2012.  GypA+h; Nfrpfs;> FWe;njhif> rhujh gjpg;gfk;> nrd;id- 2010  Ky;iyg;ghl;L> kiwkiyabfs;> ,uhikah gjpg;gfk;> nrd;id- | | | | | |

**COURSE OUTCOMES(CO)**

இப்பாடத்தைக் கற்பதன் வாயிலாக மாணவர்கள் பெறும் பயன்களாவன

|  |  |
| --- | --- |
| **CO1** | vl;Lj;njhif E}y;fs; gw;wp mwpjy;. |
| **CO2** | gj;Jg;ghl;L E}y;fs; gw;wp mwpjy;. |
| **CO3** | mw ,yf;fpaq;fs; top tho;f;if $Wfis czh;j;Jjy; |
| **CO4** | ,yf;fpa tuyhw;wpd; Njhw;wk; tsh;r;rpia mwpjy; |
| **CO5** | mbg;gil ,yf;fzj;ij mwpjy;. |

**MAPPING**

|  |  |  |  |  |  |  |  |  |  |  |
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| **PSO**  **CO** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** |
| **CO1** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **M** | **M** | **M** |
| **CO2** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **M** | **M** | **M** |
| **CO3** | **H** | **L** | **L** | **L** | **L** | **L** | **H** | **M** | **M** | **M** |
| **CO4** | **H** | **M** | **M** | **M** | **M** | **M** | **H** | **M** | **M** | **M** |
| **CO5** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **M** | **M** | **M** |

**H – High; M – Medium ; L - Low**