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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

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| **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**

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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** | **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 fhijkzpNkfiy – 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> 2017jkpoz;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**

|  |  |  |  |  |  |  |  |  |  |  |
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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** | **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- 2010Ky;iyg;ghl;L> kiwkiyabfs;> ,uhikah gjpg;gfk;> nrd;id-  |

**COURSE OUTCOMES(CO)**

இப்பாடத்தைக் கற்பதன் வாயிலாக மாணவர்கள் பெறும் பயன்களாவன

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| **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**