

BALIKESİR ÜNİVERSİTESİ
MÜHENDİSLİK - MİMARLIK FAKÜLTESİ
MAKİNE MÜHENDİSLİĞİ BÖLÜMÜ
2011-2012 EĞİTİM-ÖĞRETİM YILI DERS PLANI

| 1. SINIF 1. YARIYIL | | | | | | | 1. SINIF 2. YARIYIL | | | | | | | | |
|---------------------|------------------------------------|----------|-----------|----------|----------|-----------|---------------------|-----------|------------------------------------|----------|-----------|----------|----------|-----------|-----------|
| DERS KODU | DERSİN ADI | Kategori | T | U | L | K | ECTS | DERS KODU | DERSİN ADI | Kategori | T | U | L | K | ECTS |
| MTB1121 | LİNEER CEBİR VE ANALİTİK GEOMETRİ | Z | 2 | 1 | 0 | 2,5 | 3 | MTB1250 | DİFERANSİYEL VE İNTEGRAL | Z | 5 | 0 | 0 | 5 | 5 |
| MTB1150 | DİFERANSİYEL VE İNTEGRAL | Z | 5 | 0 | 0 | 5 | 6 | MTB1230 | FİZİK-II | Z | 3 | 0 | 0 | 3 | 3 |
| MTB1130 | FİZİK-I | Z | 3 | 0 | 0 | 3 | 3 | MMM1230 | STATİK | Z | 3 | 0 | 0 | 3 | 4 |
| MTB1122 | KİMYA | Z | 2 | 1 | 0 | 2,5 | 3 | MTB1221 | NÜMERİK ANALİZ | Z | 2 | 1 | 0 | 2,5 | 3 |
| MKI 1132 | TEKNİK RESİM ve TASARI GEOMETRİSİ | Z | 3 | 2 | 0 | 4 | 5 | MKI1232 | TEKNİK RESİM (AUTOCAD) | Z | 3 | 2 | 0 | 4 | 5 |
| MKI 1120 | MAKİNE MÜHENDİSLİĞİNE GİRİŞ | Z | 2 | 0 | 0 | 2 | 3 | MKI1221 | ÖLÇME TEKNİĞİ | Z | 2 | 1 | 0 | 2,5 | 3 |
| | TOPLAM | | 17 | 4 | 0 | 19 | 23 | | TOPLAM | | 18 | 4 | 0 | 20 | 23 |
| AIT1101 | ATATÜRK İLKELERİ ve İNKILAP TARİHİ | Z | 2 | 0 | 0 | 2 | 2 | AIT1201 | ATATÜRK İLKELERİ ve İNKILAP TARİHİ | Z | 2 | 0 | 0 | 2 | 2 |
| TDI1101 | TÜRK DİLİ-I | Z | 2 | 0 | 0 | 2 | 2 | TDI1201 | TÜRK DİLİ-II | Z | 2 | 0 | 0 | 2 | 2 |
| * | YABANCI DİL-I | Z | 2 | 2 | 0 | 3 | 3 | * | YABANCI DİL-II | Z | 2 | 2 | 0 | 3 | 3 |
| | GENEL TOPLAM | | 23 | 6 | 0 | 26 | 30 | | GENEL TOPLAM | | 24 | 6 | 0 | 27 | 30 |

| 2. SINIF 1. YARIYIL | | | | | | | 2. SINIF 2. YARIYIL | | | | | | | | |
|---------------------|------------------------|----------|-----------|----------|----------|-----------|---------------------|-----------|--------------------------|----------|-----------|----------|----------|-----------|-----------|
| DERS KODU | DERSİN ADI | Kategori | T | U | L | K | ECTS | DERS KODU | DERSİN ADI | Kategori | T | U | L | K | ECTS |
| MTB2131 | YÜKSEK MATEMATİK | Z | 3 | 1 | 0 | 3,5 | 5 | MTB 2241 | MÜHENDİSLİK MATEMATİĞİ | Z | 4 | 0 | 0 | 4 | 5 |
| MKI 2131 | MALZEME-I | Z | 3 | 1 | 0 | 3,5 | 5 | MKI 2230 | MALZEME-II | Z | 3 | 0 | 0 | 3 | 4 |
| MMM2131 | MUKAVEMET-I | Z | 3 | 1 | 0 | 3,5 | 5 | MMM2230 | MUKAVEMET-II | Z | 3 | 0 | 0 | 3 | 4 |
| MMM2130 | DİNAMİK | Z | 3 | 0 | 0 | 3 | 5 | MTR 2230 | TERMODİNAMİK-II | Z | 3 | 0 | 0 | 3 | 5 |
| MTR 2140 | TERMODİNAMİK-I | Z | 4 | 0 | 0 | 4 | 6 | MTR 2231 | AKIŞKANLAR MEKANİĞİ-I | Z | 3 | 0 | 0 | 3 | 5 |
| MTB 2121 | BİLGİSAYAR PROGRAMLAMA | Z | 2 | 1 | 0 | 2,5 | 4 | MTB 2220 | BİLG. DESTEKLİ MODELLEME | Z | 2 | 0 | 0 | 2 | 3 |
| | | | | | | | | MMD2220 | MEKANİZMA TEKNİĞİ | Z | 2 | 0 | 0 | 2 | 2 |
| | | | | | | | | | YAZ STAJI | Z | 0 | 0 | 0 | 0 | 2 |
| | TOPLAM | | 18 | 4 | 0 | 20 | 30 | | TOPLAM | | 20 | 0 | 0 | 20 | 30 |

| 3. SINIF 1. YARIYIL | | | | | | | 3. SINIF 2. YARIYIL | | | | | | | | |
|---------------------|-------------------------------|----------|-----------|----------|----------|-----------|---------------------|-----------|-------------------------------|----------|-----------|-----------|----------|-----------|-----------|
| DERS KODU | DERSİN ADI | Kategori | T | U | L | K | ECTS | DERS KODU | DERSİN ADI | Kategori | T | U | L | K | ECTS |
| MTR3120 | AKIŞKANLAR MEKANİĞİ-II | Z | 2 | 0 | 0 | 2 | 4 | MTR3230 | ISI TRANSFERİ | Z | 3 | 0 | 0 | 3 | 4 |
| MKI3140 | MAKİNE ELEMANLARI-I | Z | 4 | 0 | 0 | 4 | 6 | MKI3231 | MAKİNE ELEMANLARI-II | Z | 3 | 1 | 0 | 3,5 | 5 |
| MKI3130 | İMALAT YÖNTEMLERİ-I | Z | 3 | 0 | 0 | 3 | 4 | MEN3230 | MOTORLAR-I | Z | 3 | 0 | 0 | 3 | 4 |
| MEN3120 | ELEKTROTEKNİK | Z | 2 | 0 | 0 | 2 | 3 | MMD3231 | MAKİNE DİNAMİĞİ | Z | 2 | 1 | 0 | 2,5 | 3 |
| MKI3122 | TAKIM TEZGAHLARI | Z | 2 | 2 | 0 | 3 | 4 | MKI3220 | İMALAT YÖNTEMLERİ-II | Z | 2 | 0 | 0 | 2 | 3 |
| MKI3120 | BİLGİSAYAR .DES.TAS.(CAD) | Z | 2 | 0 | 0 | 2 | 3 | MUY3204 | LABORATUVAR-I | Z | 0 | 4 | 0 | 2 | 3 |
| | SEÇMELİ DERS (2 ders seçilir) | S | 4 | 0 | 0 | 4 | 6 | MPR3204 | MAKİNE PROJE-I | Z | 0 | 4 | 0 | 2 | 3 |
| | | | | | | | | | SEÇMELİ DERS (1 ders seçilir) | S | 2 | 0 | 0 | 2 | 3 |
| | | | | | | | | | YAZ STAJI | Z | 0 | 0 | 0 | 0 | 2 |
| | TOPLAM | | 19 | 2 | 0 | 20 | 30 | | TOPLAM | | 15 | 10 | 0 | 20 | 30 |

| 4. SINIF 1. YARIYIL | | | | | | | 4. SINIF 2. YARIYIL | | | | | | | | |
|---------------------|-------------------------------|----------|-----------|----------|----------|-----------|---------------------|-----------|-------------------------------|----------|-----------|----------|----------|-----------|-----------|
| DERS KODU | DERSİN ADI | Kategori | T | U | L | K | ECTS | DERS KODU | DERSİN ADI | Kategori | T | U | L | K | ECTS |
| MKI4130 | FABRİKA ORGANİZASYONU | Z | 3 | 0 | 0 | 3 | 4 | MTR4230 | AKIM MAKİNALARI | Z | 3 | 0 | 0 | 3 | 3 |
| MMD4130 | OTOMATİK KONTROL | Z | 3 | 0 | 0 | 3 | 4 | MKI4220 | EKONOMİ | Z | 2 | 0 | 0 | 2 | 2 |
| MKI4120 | MODELLEME VE ANALİZ | Z | 2 | 0 | 0 | 2 | 3 | MBC4202 | BİTİRME ÇALIŞMASI | Z | 0 | 2 | 0 | 1 | 2 |
| MUY4104 | LABORATUVAR-II | Z | 0 | 4 | 0 | 2 | 4 | | SEÇMELİ DERS (7 ders seçilir) | S | 14 | 0 | 0 | 14 | 21 |
| MPR4104 | MAKİNE PROJE-II | Z | 0 | 4 | 0 | 2 | 3 | | YAZ STAJI | Z | 0 | 0 | 0 | 0 | 2 |
| | SEÇMELİ DERS (4 ders seçilir) | S | 8 | 0 | 0 | 8 | 12 | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | TOPLAM | | 16 | 8 | 0 | 20 | 30 | | TOPLAM | | 19 | 2 | 0 | 20 | 30 |

*YDI1101 Yabancı Dil (İngilizce)-I
*YDA1101 Yabancı Dil (Almanca)-I
*YDF1101 Yabancı Dil (Fransızca)-I

**YDI1201 Yabancı Dil (İngilizce)-II
**YDA1201 Yabancı Dil (Almanca)-II
**YDF1201 Yabancı Dil (Fransızca)-II

KATEGORİ :
Z Zorunlu
S Seçmeli

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2011-2012 EĞİTİM-ÖĞRETİM YILI DERS PLANI

| 3. SINIF 1. YARIYIL SEÇMELİ DERSLER | | | | | | | 3. SINIF 2. YARIYIL SEÇMELİ DERSLER | | | | | | | | |
|-------------------------------------|------------------------|----------|---|---|---|---|-------------------------------------|-----------|--------------------------|----------|---|---|---|---|------|
| DERS KODU | DERSİN ADI | Kategori | T | U | L | K | ECTS | DERS KODU | DERSİN ADI | Kategori | T | U | L | K | ECTS |
| MTR3121 | SAĞLIK TESİSATI | S | 2 | 0 | 0 | 2 | 3 | MEN3220 | ISITMA TEKNİĞİ | S | 2 | 0 | 0 | 2 | 3 |
| MTR3122 | ÇEVRE TEKNİĞİ | S | 2 | 0 | 0 | 2 | 3 | MTR3220 | İŞİNİMLA ISI TRANSFERİ | S | 2 | 0 | 0 | 2 | 3 |
| MEN3123 | YAKIT VE YANMA | S | 2 | 0 | 0 | 2 | 3 | MKI3221 | ISIL İŞLEMLER | S | 2 | 0 | 0 | 2 | 3 |
| MKI3121 | KONSTRÜKSİYON | S | 2 | 0 | 0 | 2 | 3 | MKI3222 | CNC TEZGAHLARI | S | 2 | 0 | 0 | 2 | 3 |
| MKI3124 | PLASTİK MALZEMELER | S | 2 | 0 | 0 | 2 | 3 | MMM3223 | SONLU ELEMANLAR ANALİZİN | S | 2 | 0 | 0 | 2 | 3 |
| MKI3123 | KAYNAK TEKNİĞİ | S | 2 | 0 | 0 | 2 | 3 | | | | | | | | |
| MMM3122 | KOMPOZİT MALZEMELER VE | S | 2 | 0 | 0 | 2 | 3 | | | | | | | | |

| 4. SINIF 1. YARIYIL SEÇMELİ DERSLER | | | | | | | 4. SINIF 2. YARIYIL SEÇMELİ DERSLER | | | | | | | | |
|-------------------------------------|----------------------------|----------|---|---|---|---|-------------------------------------|-----------|----------------------------|----------|---|---|---|---|------|
| DERS KODU | DERSİN ADI | Kategori | T | U | L | K | ECTS | DERS KODU | DERSİN ADI | Kategori | T | U | L | K | ECTS |
| MEN4120 | MOTORLAR-II | S | 2 | 0 | 0 | 2 | 3 | MEN4220 | GAZ TÜRBİNLERİ | S | 2 | 0 | 0 | 2 | 3 |
| MTR4120 | KÜTLE TRANSFERİ | S | 2 | 0 | 0 | 2 | 3 | MEN4221 | KLİMA | S | 2 | 0 | 0 | 2 | 3 |
| MTR4121 | BUHAR KAZANLARI | S | 2 | 0 | 0 | 2 | 3 | MEN4222 | ENERJİ EKONOMİSİ | S | 2 | 0 | 0 | 2 | 3 |
| MTR4122 | BUHAR TÜRBİNLERİ | S | 2 | 0 | 0 | 2 | 3 | MEN4226 | ENERJİ SANTRALLERİ | S | 2 | 0 | 0 | 2 | 3 |
| MTR4123 | YALITIM TEKNİĞİ | S | 2 | 0 | 0 | 2 | 3 | MTR4220 | ÇEŞİTLİ SOĞUTMA SİST. | S | 2 | 0 | 0 | 2 | 3 |
| MTR4124 | SOĞUTMA TEKNİĞİ | S | 2 | 0 | 0 | 2 | 3 | MTR4222 | GÜNEŞ ENERJİSİ SİSTEMLERİ | S | 2 | 0 | 0 | 2 | 3 |
| MEN4121 | HAVALANDIRMA TEKNİĞİ | S | 2 | 0 | 0 | 2 | 3 | MTR4223 | DOĞAL GAZ SİSTEMLERİ | S | 2 | 0 | 0 | 2 | 3 |
| MKI4121 | BİLGİSAYAR DESTEKLİ ÜRETİM | S | 2 | 0 | 0 | 2 | 3 | MMD4220 | TAŞIT KONSTRÜKSİYONU | S | 2 | 0 | 0 | 2 | 3 |
| MKI4122 | HİDROLİK VE PNOMATİK | S | 2 | 0 | 0 | 2 | 3 | MKI4221 | KOROZYON TEKNİĞİ | S | 2 | 0 | 0 | 2 | 3 |
| MKI4123 | ÜRETİM PLANLAMA | S | 2 | 0 | 0 | 2 | 3 | MKI4222 | KALİTE KONTROL | S | 2 | 0 | 0 | 2 | 3 |
| MKI4124 | GÜÇ İLETİM TEKNİĞİ | S | 2 | 0 | 0 | 2 | 3 | MKI4225 | DEMİR DIŞI METALLER | S | 2 | 0 | 0 | 2 | 3 |
| MMD4120 | MEKANİK TİTREŞİMLER | S | 2 | 0 | 0 | 2 | 3 | MKI4226 | KAYNAK METALURJİSİ | S | 2 | 0 | 0 | 2 | 3 |
| MMD4121 | MOTORLU TAŞITLAR | S | 2 | 0 | 0 | 2 | 3 | MKI4227 | TRANSPORT TEKNİĞİ | S | 2 | 0 | 0 | 2 | 3 |
| MKI4126 | ESNEK İMALAT SİSTEMLERİ | S | 2 | 0 | 0 | 2 | 3 | MKI4228 | ELASTİK ENERJİ TEORİSİ | S | 2 | 0 | 0 | 2 | 3 |
| MKI4127 | ERGONOMİ | S | 2 | 0 | 0 | 2 | 3 | MKI4230 | BİLGİSAYAR TÜMLEŞİK ÜRETİM | S | 2 | 0 | 0 | 2 | 3 |

KATEGORİ :
Z Zorunlu
S Seçmeli

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2011-2012 ACADEMIC YEAR UNDERGRADUATE CURRICULUM

| 1st YEAR 1st SEMESTER | | | | | | | | 1st YEAR 2nd SEMESTER | | | | | | | |
|-----------------------|---|----------|-----------|----------|----------|-----------|-----------|-----------------------|---|----------|-----------|----------|----------|-----------|-----------|
| CODE | COURSE NAME | Category | T | A | L | C | ECTS | CODE | COURSE NAME | Category | T | A | L | C | ECTS |
| MTB1121 | Linear Algebra and Analytical Ge | Z | 2 | 1 | 0 | 2,5 | 3 | MTB1250 | Differantiation and Integral Calcu | Z | 5 | 0 | 0 | 5 | 5 |
| MTB1150 | Differentiation and Integral Calcu | Z | 5 | 0 | 0 | 5 | 6 | MTB1230 | Physics-II | Z | 3 | 0 | 0 | 3 | 3 |
| MTB1130 | Physics-I | Z | 3 | 0 | 0 | 3 | 3 | MMM1230 | Statics | Z | 3 | 0 | 0 | 3 | 4 |
| MTB1122 | Chemistry | Z | 2 | 1 | 0 | 2,5 | 3 | MTB1221 | Numerical Analysis | Z | 2 | 1 | 0 | 2,5 | 3 |
| MKI 1132 | Techn. Drawing and Descriptive | Z | 3 | 2 | 0 | 4 | 5 | MKI1232 | Technical Drawing (Auto CAD) | Z | 3 | 2 | 0 | 4 | 5 |
| MKI 1120 | Introduction to Mechanical Engin | Z | 2 | 0 | 0 | 2 | 3 | MKI1221 | Measurement Tecnique | Z | 2 | 1 | 0 | 2,5 | 3 |
| | Total | | 17 | 4 | 0 | 19 | 23 | | Total | | 18 | 4 | 0 | 20 | 23 |
| AIT1101 | Atatürk Principles and Turkish Revolition Histo | Z | 2 | 0 | 0 | 2 | 2 | AIT1201 | Atatürk Principles and Turkish Revolition Histo | Z | 2 | 0 | 0 | 2 | 2 |
| TDI1101 | Turkish Language-I | Z | 2 | 0 | 0 | 2 | 2 | TDI1201 | Turkish Language-II | Z | 2 | 0 | 0 | 2 | 2 |
| * | Foreign Language-I | Z | 2 | 2 | 0 | 3 | 3 | * | Foreign Language-II | Z | 2 | 2 | 0 | 3 | 3 |
| GRAND TOTAL | | | 23 | 6 | 0 | 26 | 30 | GRAND TOTAL | | | 24 | 6 | 0 | 27 | 30 |

| 2nd YEAR 3rd SEMESTER | | | | | | | | 2nd YEAR 4th SEMESTER | | | | | | | |
|-----------------------|------------------------------|----------|-----------|----------|----------|-----------|-----------|-----------------------|-------------------------------|----------|-----------|----------|----------|-----------|-----------|
| CODE | COURSE NAME | Category | T | A | L | C | ECTS | CODE | COURSE NAME | Category | T | A | L | C | ECTS |
| MTB2131 | Advanced Mathematics | Z | 3 | 1 | 0 | 3,5 | 5 | MTB 2241 | Engineering Mathematics | Z | 4 | 0 | 0 | 4 | 5 |
| MKI 2131 | Materials Science-I | Z | 3 | 1 | 0 | 3,5 | 5 | MKI 2230 | Materials Science-II | Z | 3 | 0 | 0 | 3 | 4 |
| MMM2131 | Strength of the Materials-I | Z | 3 | 1 | 0 | 3,5 | 5 | MMM2230 | Strength of the Materials-II | Z | 3 | 0 | 0 | 3 | 4 |
| MMM2130 | Dynamics | Z | 3 | 0 | 0 | 3 | 5 | MTR 2230 | Thermodynamics-II | Z | 3 | 0 | 0 | 3 | 5 |
| MTR 2140 | Thermodynamics-I | Z | 4 | 0 | 0 | 4 | 6 | MTR 2231 | Fluid Mechanics-I | Z | 3 | 0 | 0 | 3 | 5 |
| MTB 2121 | Computer Programming Languag | Z | 2 | 1 | 0 | 2,5 | 4 | MTB 2220 | Computer Aided Modeling and D | Z | 2 | 0 | 0 | 2 | 3 |
| | | | | | | | | MMD2220 | Mechanism Tecnique | Z | 2 | 0 | 0 | 2 | 2 |
| | | | | | | | | | Summer Internship | Z | 0 | 0 | 0 | 0 | 2 |
| | | | | | | | | | | | | | | | |
| | TOTAL | | 18 | 4 | 0 | 20 | 30 | | TOTAL | | 20 | 0 | 0 | 20 | 30 |

| 3rd YEAR 5th SEMESTER | | | | | | | | 3rd YEAR 6th SEMESTER | | | | | | | |
|-----------------------|---------------------------------|----------|-----------|----------|----------|-----------|-----------|-----------------------|---------------------------------|----------|-----------|-----------|----------|-----------|-----------|
| CODE | COURSE NAME | Category | T | A | L | C | ECTS | CODE | COURSE NAME | Category | T | A | L | C | ECTS |
| MTR3120 | Fluid Mechanics-II | Z | 2 | 0 | 0 | 2 | 4 | MTR3230 | Heat Transfer | Z | 3 | 0 | 0 | 3 | 4 |
| MKI3140 | Machine Elements-I | Z | 4 | 0 | 0 | 4 | 6 | MKI3231 | Machine Elements-II | Z | 3 | 1 | 0 | 3,5 | 5 |
| MKI3130 | Manufacturing Methods-I | Z | 3 | 0 | 0 | 3 | 4 | MEN3230 | Internal Combustion Engines-I | Z | 3 | 0 | 0 | 3 | 4 |
| MEN3120 | Electrotechnics | Z | 2 | 0 | 0 | 2 | 3 | MMD3231 | Machine Dynamic | Z | 2 | 1 | 0 | 2,5 | 3 |
| MKI3122 | MachineTools | Z | 2 | 2 | 0 | 3 | 4 | MKI3220 | Methods of Manufacturing-II | Z | 2 | 0 | 0 | 2 | 3 |
| MKI3120 | Computer Aided Design (CAD) | Z | 2 | 0 | 0 | 2 | 3 | MUY3204 | Laboratory-I | Z | 0 | 4 | 0 | 2 | 3 |
| | Elective Courses (2 Courses are | S | 4 | 0 | 0 | 4 | 6 | MPR3204 | Machine Project-I | Z | 0 | 4 | 0 | 2 | 3 |
| | | | | | | | | | Elective Courses (2 Courses are | S | 2 | 0 | 0 | 2 | 3 |
| | | | | | | | | | Summer Internship | Z | 0 | 0 | 0 | 0 | 2 |
| | TOTAL | | 19 | 2 | 0 | 20 | 30 | | TOTAL | | 15 | 10 | 0 | 20 | 30 |

| 4th YEAR 7th SEMESTER | | | | | | | | 4th YEAR 8th SEMESTER | | | | | | | |
|-----------------------|---------------------------------|----------|-----------|----------|----------|-----------|-----------|-----------------------|---------------------------------|----------|-----------|----------|----------|-----------|-----------|
| CODE | COURSE NAME | Category | T | A | L | C | ECTS | CODE | COURSE NAME | Category | T | A | L | C | ECTS |
| MKI4130 | Factory Organization | Z | 3 | 0 | 0 | 3 | 4 | MTR4230 | Fluid Machineries | Z | 3 | 0 | 0 | 3 | 3 |
| MMD4130 | Automatic Control | Z | 3 | 0 | 0 | 3 | 4 | MKI4220 | Economy | Z | 2 | 0 | 0 | 2 | 2 |
| MKI4120 | Modeling and Analysis | Z | 2 | 0 | 0 | 2 | 3 | MBC4202 | Senior Project | Z | 0 | 2 | 0 | 1 | 2 |
| MUY4104 | Laboratory-II | Z | 0 | 4 | 0 | 2 | 4 | | Elective Courses (7 Courses are | S | 14 | 0 | 0 | 14 | 21 |
| MPR4104 | Machine Project-II | Z | 0 | 4 | 0 | 2 | 3 | | Summer Internship | Z | 0 | 0 | 0 | 0 | 2 |
| | Elective Courses (4 Courses are | S | 8 | 0 | 0 | 8 | 12 | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | TOTAL | | 16 | 4 | 0 | 20 | 30 | | TOTAL | | 19 | 2 | 0 | 20 | 30 |

*YDI1101 Foreign Language (English)-I
*YDA1101 Foreign Language (German)-I
*YDF1101 Foreign Language (French)-I

**YDI1201 Foreign Language (English)-II
**YDA1201 Foreign Language (German)-II
**YDF1201 Foreign Language (French)-II

CATAGORY:
C Compulsory
E Elective

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| 3rd YEAR 5th SEMESTER ELECTIVE COURSES | | | | | | | 3rd YEAR 6th SEMESTER ELECTIVE COURSES | | | | | | | | |
|--|------------------------------|----------|---|---|---|---|--|---------|-----------------------------------|----------|---|---|---|---|------|
| CODE | COURSE NAME | Category | T | A | L | C | ECTS | CODE | COURSE NAME | Category | T | A | L | C | ECTS |
| MTR3121 | Sanitary Installation | S | 2 | 0 | 0 | 2 | 3 | MEN3220 | Heating Systems | S | 2 | 0 | 0 | 2 | 3 |
| MTR3122 | Enviromental Techniques | S | 2 | 0 | 0 | 2 | 3 | MTR3220 | Thermal Radiation Heat Transfer | S | 2 | 0 | 0 | 2 | 3 |
| MEN3123 | Fuels and Combustion | S | 2 | 0 | 0 | 2 | 3 | MKI3221 | Heat Treatments | S | 2 | 0 | 0 | 2 | 3 |
| MKI3121 | Construction | S | 2 | 0 | 0 | 2 | 3 | MKI3222 | CNC Machine Tools | S | 2 | 0 | 0 | 2 | 3 |
| MKI3124 | Plastic Materials | S | 2 | 0 | 0 | 2 | 3 | MMM3223 | Introduction to Finite Element Me | S | 2 | 0 | 0 | 2 | 3 |
| MKI3123 | Welding Technic | S | 2 | 0 | 0 | 2 | 3 | | | | | | | | |
| MMM3122 | Compozite Material Mechanics | S | 2 | 0 | 0 | 2 | 3 | | | | | | | | |

| 4th YEAR 7th SEMESTER ELECTIVE COURSES | | | | | | | 4th YEAR 8th SEMESTER ELECTIVE COURSES | | | | | | | | |
|--|--------------------------------|----------|---|---|---|---|--|---------|--------------------------------|----------|---|---|---|---|------|
| CODE | COURSE NAME | Category | T | A | L | C | ECTS | CODE | COURSE NAME | Category | T | A | L | C | ECTS |
| MEN4120 | Internal Combustion Engines-II | S | 2 | 0 | 0 | 2 | 3 | MEN4220 | Gas Turbins | S | 2 | 0 | 0 | 2 | 3 |
| MTR4120 | MassTransfer | S | 2 | 0 | 0 | 2 | 3 | MEN4221 | Air-Conditioning Technique | S | 2 | 0 | 0 | 2 | 3 |
| MTR4121 | Steam Boiler | S | 2 | 0 | 0 | 2 | 3 | MEN4222 | Energy Economy | S | 2 | 0 | 0 | 2 | 3 |
| MTR4122 | Steam Turbines | S | 2 | 0 | 0 | 2 | 3 | MEN4226 | Power Plants Technolgy | S | 2 | 0 | 0 | 2 | 3 |
| MTR4123 | Insulation Technique | S | 2 | 0 | 0 | 2 | 3 | MTR4220 | Various Cooling Systems | S | 2 | 0 | 0 | 2 | 3 |
| MTR4124 | Cooling Technique | S | 2 | 0 | 0 | 2 | 3 | MTR4222 | Solar Energy Systems | S | 2 | 0 | 0 | 2 | 3 |
| MEN4121 | Ventilation Systems | S | 2 | 0 | 0 | 2 | 3 | MTR4223 | Natural Gas Systems | S | 2 | 0 | 0 | 2 | 3 |
| MKI4121 | Computer Aided Manufacturing | S | 2 | 0 | 0 | 2 | 3 | MMD4220 | Vehicle Construction | S | 2 | 0 | 0 | 2 | 3 |
| MKI4122 | Hydraulic and Pneumatics | S | 2 | 0 | 0 | 2 | 3 | MKI4221 | Corrosion Technique | S | 2 | 0 | 0 | 2 | 3 |
| MKI4123 | Production Planning | S | 2 | 0 | 0 | 2 | 3 | MKI4222 | Quality Control | S | 2 | 0 | 0 | 2 | 3 |
| MKI4124 | Power Transmission Mechanism | S | 2 | 0 | 0 | 2 | 3 | MKI4225 | Non-Ferrous Metals | S | 2 | 0 | 0 | 2 | 3 |
| MMD4120 | Mechanical Vibrations | S | 2 | 0 | 0 | 2 | 3 | MKI4226 | Metallurgy of Welding | S | 2 | 0 | 0 | 2 | 3 |
| MMD4121 | Engine Vehicles | S | 2 | 0 | 0 | 2 | 3 | MKI4227 | Transport Technique | S | 2 | 0 | 0 | 2 | 3 |
| MKI4126 | Flexible Manufacturing Systems | S | 2 | 0 | 0 | 2 | 3 | MKI4228 | Elastic Energy Theory | S | 2 | 0 | 0 | 2 | 3 |
| MKI4127 | Ergonomics | S | 2 | 0 | 0 | 2 | 3 | MKI4230 | Computer Integrated Manufactur | S | 2 | 0 | 0 | 2 | 3 |

CATAGORY:
C **Compulsory**
E **Elective**