

LAMPIRAN

3. Coding Pada Aplikasi Linggo

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SETS:
    zoom/1..5/;;          !indeks j;
    hari/1..5/;;         !indeks k;
    sesi/1..12/;;        !indeks l;
    matakuliah/1..90/: Sm; !indeks m;
    sks/1..3/;;          !indeks t;
    LM(sesi,matakuliah): Qlm;
    KL(hari,sesi)::
    JK(zoom,hari)::
    JM(zoom,matakuliah)::
    JKL(zoom,hari,sesi)::
    JKM(zoom,hari,matakuliah): Yjkm;
    JKLM(zoom,hari,sesi,matakuliah): Xjklm;
ENDSETS

DATA:
    Md1 = 2;
    Md2 = 5;
    Md3 = 6;
    Md4 = 7;
    Md5 = 8;
    Md6 = 10;
    Md7 = 12;
    Md8 = 14;
    Md9 = 17;
    Md10 = 19;
    Md11 = 21;
    Md12 = 24;
    Md13 = 25;
    Md14 = 27;
    Md15 = 31;
    Md16 = 32;
    Md17 = 34;
    Md18 = 37;
    Md19 = 40;
    Md20 = 43;
    Md21 = 46;
    Md22 = 50;
    Md23 = 53;
    Md24 = 56;
    Md25 = 59;
    Md26 = 64;
    Md27 = 66;
    Md28 = 68;
    Md29 = 71;
    Md30 = 75;
    Md31 = 78;
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Md32 = 80;
Md33 = 82;
Md34 = 83;
Md35 = 86;
Md36 = 89;
Md37 = 90;
Sm = @ole('C:\File Blek\Skripsi Baru\Skripsi Dendi Abdul Malik Asshiddeiqy_3333170086\Solver Status Zoom 5\Solver status Zoom 5.xlsx','Sm');
Qlm = @ole('C:\File Blek\Skripsi Baru\Skripsi Dendi Abdul Malik Asshiddeiqy_3333170086\Solver Status Zoom 5\Solver status Zoom 5.xlsx','Qlm');
@ole('C:\File Blek\Skripsi Baru\Skripsi Dendi Abdul Malik Asshiddeiqy_3333170086\Solver Status Zoom 5\Solver status Zoom 5.xlsx','Yjkm') = Yjkm;
@ole('C:\File Blek\Skripsi Baru\Skripsi Dendi Abdul Malik Asshiddeiqy_3333170086\Solver Status Zoom 5\Solver status Zoom 5.xlsx','Xjklm') = Xjklm;
ENDDATA

min = @sum(JKLM(j,k,l,m): Xjklm(j,k,l,m)*Qlm(l,m));

!Setiap akun zoom hanya bisa digunakan maksimal 1 matakuliah pada hari, dan sesi;
@for(JKL(j,k,l):
  @sum(matakuliah(m): Xjklm(j,k,l,m)) <= 1 );

!Setiap matakuliah harus dijadwalkan sesuai jumlah SKS nya;
@for(matakuliah(m):
  @sum(JKL(j,k,l): Xjklm(j,k,l,m)) = Sm(m) );

!Setiap matakuliah bisa dijadwalkan lebih dari satu sesi, namun secara total harus memenuhi kredit sks nya;
@for(JKM(j,k,m):
  @sum(sesi(l): Xjklm(j,k,l,m)) = Yjkm(j,k,m)*Sm(m) );

!Memastikan penjadwalan matakuliah memperhatikan sks matakuliah yang dijadwalkan;
@for(JKM(j,k,m):
  @for(sesi(l)| l #EQ# 1:
  @for(sks(t)| t #GE# 2 #AND# t #LE# Sm(m):
    Xjklm(j,k,l,m) - Xjklm(j,k,t,m) <= 0 ));

@for(JKM(j,k,m):
  @for(sesi(l)| l #GE# 1 #AND# l #LE# 12 - Sm(m):
  @for(sks(t)| t #GE# 2 #AND# t #LE# Sm(m):
    Xjklm(j,k,l+1,m) - Xjklm(j,k,l,m) - Xjklm(j,k,l+t,m) <= 0 ));

@for(JKM(j,k,m):
  @for(sesi(l)| l #EQ# 12:
  @for(sks(t)| t #GE# 1 #AND# t #LE# Sm(m) - 1:
    Xjklm(j,k,12,m) - Xjklm(j,k,12-t,m) <= 0 ));

!Memastikan matakuliah dengan dosen yang sama tidak boleh dijadwalkan pada hari dan sesi yang sama;
@for(KL(k,l):
  @sum(j: @sum(matakuliah(m)| m #GE# 1 #AND# m #LE# Mdl: Xjklm(j,k,l,m))) <= 1 );
@for(KL(k,l):

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@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #GE# Md25+1 #AND# m #LE# Md26: Xjklm(j,k,l,m))) <= 1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #GE# Md26+1 #AND# m #LE# Md27: Xjklm(j,k,l,m))) <= 1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #GE# Md27+1 #AND# m #LE# Md28: Xjklm(j,k,l,m))) <= 1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #GE# Md28+1 #AND# m #LE# Md29: Xjklm(j,k,l,m))) <= 1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #GE# Md29+1 #AND# m #LE# Md30: Xjklm(j,k,l,m))) <= 1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #GE# Md30+1 #AND# m #LE# Md31: Xjklm(j,k,l,m))) <= 1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #GE# Md31+1 #AND# m #LE# Md32: Xjklm(j,k,l,m))) <= 1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #GE# Md32+1 #AND# m #LE# Md33: Xjklm(j,k,l,m))) <= 1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #GE# Md33+1 #AND# m #LE# Md34: Xjklm(j,k,l,m))) <= 1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #GE# Md34+1 #AND# m #LE# Md35: Xjklm(j,k,l,m))) <= 1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #GE# Md35+1 #AND# m #LE# Md36: Xjklm(j,k,l,m))) <= 1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #GE# Md36+1 #AND# m #LE# Md37: Xjklm(j,k,l,m))) <= 1 );

!Memastikan matakuliah dengan kelompok mahasiswa yang sama tidak boleh dijadwalkan pada hari dan sesi yang sama;
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #EQ# 1 #AND# m #EQ# 8 #AND# m #EQ# 26 #AND# m #EQ# 38 #AND# m #EQ# 44 #AND# m #EQ# 54 #AND# m #EQ# 66 #AND# m #EQ# 84 #AND# m #EQ# 87: Xjklm(j,k,l,m))) <=1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #EQ# 2 #AND# m #EQ# 28 #AND# m #EQ# 39 #AND# m #EQ# 55 #AND# m #EQ# 67 #AND# m #EQ# 72 #AND# m #EQ# 74 #AND# m #EQ# 81 #AND# m #EQ# 88: Xjklm(j,k,l,m))) <=1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #EQ# 13 #AND# m #EQ# 35 #AND# m #EQ# 56 #AND# m #EQ# 68 #AND# m #EQ# 73 #AND# m #EQ# 75 #AND# m #EQ# 82 #AND# m #EQ# 89: Xjklm(j,k,l,m))) <=1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #EQ# 15 #AND# m #EQ# 20 #AND# m #EQ# 22 #AND# m #EQ# 29 #AND# m #EQ# 51 #AND# m #EQ# 60 #AND# m #EQ# 79 #AND# m #EQ# 83: Xjklm(j,k,l,m))) <=1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #EQ# 9 #AND# m #EQ# 23 #AND# m #EQ# 30 #AND# m #EQ# 36 #AND# m #EQ# 52 #AND# m #EQ# 61 #AND# m #EQ# 80 #AND# m #EQ# 90: Xjklm(j,k,l,m))) <=1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #EQ# 10 #AND# m #EQ# 11 #AND# m #EQ# 14 #AND# m #EQ# 24 #AND# m #EQ# 53 #AND# m #EQ# 62 #AND# m #EQ# 76: Xjklm(j,k,l,m))) <=1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #EQ# 18 #AND# m #EQ# 25 #AND# m #EQ# 33 #AND# m #EQ# 41 #AND# m #EQ# 47 #AND# m #EQ# 85: Xjklm(j,k,l,m))) <=1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #EQ# 19 #AND# m #EQ# 34 #AND# m #EQ# 48 #AND# m #EQ# 69 #AND# m #EQ# 77 #AND# m #EQ# 86: Xjklm(j,k,l,m))) <=1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #EQ# 6 #AND# m #EQ# 42 #AND# m #EQ# 49 #AND# m #EQ# 64 #AND# m #EQ# 78: Xjklm(j,k,l,m))) <=1 );
@for (KL(k,l):
  @sum(zoom(j): @sum(matakuliah(m) | m #EQ# 3 #AND# m #EQ# 4 #AND# m #EQ# 5 #AND# m #EQ# 7 #AND# m #EQ# 12 #AND# m #EQ# 16 #AND# m #EQ# 17 #AND# m #EQ# 21 #AND# m #EQ# 27 #AND# m #EQ# 31 #AND# m #EQ# 32

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!Pengajar matakuliah tertentu yang tidak mau dijadwalkan pada hari tertentu dan sesi tertentu;
!Ani Umyati, S.T., M.T.;
@for(matakuliah(m) | m #GE# Md6 + 1 #AND# m #LE# Md7:
@for(hari(k) | k #EQ# 1 #AND# k #EQ# 5:
@for(sesi(l) | l #EQ# 1 #AND# l #EQ# 2 #AND# l #EQ# 3 #AND# l #EQ# 10 #AND# l #EQ# 11 #AND# l #EQ# 12:
    @sum(zoom(j): Xjklm(j,k,l,m) = 0 ));

!Bobby Kurniawan, S.T., M.T.;
@for(matakuliah(m) | m #GE# Md8 + 1 #AND# m #LE# Md9:
@for(hari(k) | k #EQ# 1 #AND# k #EQ# 2 #AND# k #EQ# 3:
@for(sesi(l) | l #EQ# 8 #AND# l #EQ# 9 #AND# l #EQ# 10 #AND# l #EQ# 11 #AND# l #EQ# 12:
    @sum(zoom(j): Xjklm(j,k,l,m) = 0 ));

!Dr. Lely Herlina, S.T., M.T.;
@for(matakuliah(m) | m #GE# Md16 + 1 #AND# m #LE# Md17:
@for(hari(k) | k #EQ# 1 #AND# k #EQ# 4:
@for(sesi(l) | l #EQ# 1 #AND# l #EQ# 2 #AND# l #EQ# 3 #AND# l #EQ# 10 #AND# l #EQ# 11 #AND# l #EQ# 12:
    @sum(zoom(j): Xjklm(j,k,l,m) = 0 ));

!Dr. Lovely Lady, S.T., M.T.;
@for(matakuliah(m) | m #GE# Md17 + 1 #AND# m #LE# Md18:
@for(hari(k) | k #EQ# 5:
@for(sesi(l) | l #EQ# 8 #AND# l #EQ# 9 #AND# l #EQ# 10 #AND# l #EQ# 11 #AND# l #EQ# 12:
    @sum(zoom(j): Xjklm(j,k,l,m) = 0 ));

!Dr. Shanti Kirana Anggraeni, S.P., M.T.;
@for(matakuliah(m) | m #GE# Md19 + 1 #AND# m #LE# Md20:
@for(hari(k) | k #EQ# 1 #AND# k #EQ# 5:
@for(sesi(l) | l #EQ# 1 #AND# l #EQ# 2 #AND# l #EQ# 3 #AND# l #EQ# 8 #AND# l #EQ# 9 #AND# l #EQ# 10 #AND# l #EQ# 11 #AND# l #EQ# 12:
    @sum(zoom(j): Xjklm(j,k,l,m) = 0 ));

!Evi Febianti, S.T., M.Eng.;
@for(matakuliah(m) | m #GE# Md22 + 1 #AND# m #LE# Md23:
@for(hari(k) | k #EQ# 1 #AND# k #EQ# 5:
@for(sesi(l) | l #EQ# 1 #AND# l #EQ# 2 #AND# l #EQ# 10 #AND# l #EQ# 11 #AND# l #EQ# 12:
    @sum(zoom(j): Xjklm(j,k,l,m) = 0 ));

!Nuraida Wahyuni, S.T., M.T.;
@for(matakuliah(m) | m #GE# Md28 + 1 #AND# m #LE# Md29:
@for(hari(k) | k #EQ# 1 #AND# k #EQ# 5:
@for(sesi(l) | l #EQ# 1 #AND# l #EQ# 2 #AND# l #EQ# 3 #AND# l #EQ# 8 #AND# l #EQ# 9 #AND# l #EQ# 10 #AND# l #EQ# 11 #AND# l #EQ# 12:
    @sum(zoom(j): Xjklm(j,k,l,m) = 0 ));

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!Nuraida Wahyuni, S.T., M.T.;
@for(matakuliah(m) | m #GE# Md28 + 1 #AND# m #LE# Md29:
@for(hari(k) | k #EQ# 1 #AND# k #EQ# 5:
@for(sesi(l) | l #EQ# 1 #AND# l #EQ# 2 #AND# l #EQ# 3 #AND# l #EQ# 8 #AND# l #EQ# 9 #AND# l #EQ# 10 #AND# l #EQ# 11 #AND# l #EQ# 12:
    @sum(zoom(j): Xjklm(j,k,l,m) = 0 ));

!Nustin Merdiana Dewantari, S.T., M.T.;
@for(matakuliah(m) | m #GE# Md29 + 1 #AND# m #LE# Md30:
@for(hari(k) | k #EQ# 5:
@for(sesi(l) | l #EQ# 10 #AND# l #EQ# 11 #AND# l #EQ# 12:
    @sum(zoom(j): Xjklm(j,k,l,m) = 0 ));

!Sunardi, S.T., M.Eng;
@for(matakuliah(m) | m #GE# Md33 + 1 #AND# m #LE# Md34:
@for(hari(k) | k #EQ# 5:
@for(sesi(l) | l #EQ# 1 #AND# l #EQ# 2:
    @sum(zoom(j): Xjklm(j,k,l,m) = 0 ));

!Yusraini Muharni, S.T., M.T.;
@for(matakuliah(m) | m #GE# Md34 + 1 #AND# m #LE# Md35:
@for(hari(k) | k #EQ# 1 #AND# k #EQ# 2:
@for(sesi(l) | l #EQ# 8 #AND# l #EQ# 9 #AND# l #EQ# 10 #AND# l #EQ# 11 #AND# l #EQ# 12:
    @sum(zoom(j): Xjklm(j,k,l,m) = 0 ));

!Tidak boleh ada kuliah di semua hari pada sesi ke 7 (12:30 - 13:10) yang merupakan jam istirahat;
@for(sesi(l) | l #EQ# 7:
    @sum(JKM(j,k,m): Xjklm(j,k,l,m) = 0);

!Tidak boleh ada kuliah di hari ke 5 sesi ke 6 (11:40 - 12:30) karena istirahat solat jumat;
@for(hari(k) | k #EQ# 5:
@for(sesi(l) | l #EQ# 6:
    @sum(JM(j,m): Xjklm(j,k,l,m) = 0 ));

!Variabel keputusan merupakan biner;
@for(JKLM(j,k,l,m): @bin(Xjklm(j,k,l,m)));
@for(JKM(j,k,m): @bin(Yjkm(j,k,m)));

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DAFTAR RIWAYAT HIDUP PENULIS

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Riwayat Pendidikan

Sekolah Dasar : SDN 2 Serdang
 SLTP : SMPIT Al-Masykar Bina Insani
 SLTA : SMAIT Bina Insani

Data Keluarga

Nama Ayah : Nasrawi
 Nama Ibu : Dian Rahmawati
 Alamat Orang Tua : Jl.Waringinkurung KM4 Kp.Cibeka
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Riwayat Organisasi

1. Staf Departemen Komdis & PI HMTI FT UNTIRTA 2018/2019
2. Kepala Departemen Komdis & PI HMTI FT UNTIRTA 2019/2020
3. Kepala Divisi Kegiatan MAPALA KRAKATAU FT UNTIRTA 2019/2021
4. Menteri Koordinator SOSMAS BEM FT UNTIRTA 2020/2021
5. Dewan Pengawas MAPALA KRAKATAU FT UNTIRTA 2021/2022

Kompetensi yang dikuasai

1. Microsoft Word
2. Microsoft Excel
3. Microsoft Power Point
4. Microsoft Visio
5. Linggo
6. Autocad
7. SketchUp