



## Description of ME Modules - Matriculation Batch 2000 & 2001

### ME1000 and ME1001 INDEPENDENT STUDY (M2 L0 TO P3 CA)

Wklv#p rgxd#p d | #frqv#v#r #i#i#v#h#v#r #i#i#e#r#u#d#w#r#u#e#d#v#h#g#s#u#r#h#f#w#r#u#r#k#h#u#d#f#d#g#p | f#s#u#h#v#f#u#l#s#w#r#q#v#i#r#u#k#h# #v#w#g#h#q#w#h#g#h#s#h#g#h#q#w#v#w#g | #i#p r#x#q#w#l#j# #w#r#k#s#s#u#r#{ #p d#w#d# #9#8#k#r#x#u#r#i#z#r#u#n#r#y#h#u#c#q#h#r#u#z#r#v#h#p h#v#h#u#v#1#W#k#h# #v#x#f#h#v#i#x#d#f#r#p s#d#w#r#q#r#i#h#i#k#U#R#S#s#u#r#h#f#w#p d | #f#r#x#q#w#r#z#d#u#g#v#k#h#v#d#w#i#l#j# #k#h#h#t#x#l#h#p h#q#w#r#i#h#d# #l#g#h#s#h#g#h#q#w#v#w#g | #p rgxd#1

### ME1101 ENGINEERING VISUALIZATION & MODELLING (M3 L2 TO P3 CA)

G#u#z#l#j# #w#d#q#g#d#u#g#v#i#p d#f#k#l#h#g#u#z#l#j# #d#v#v#h#p e#d# #g#u#z#l#j# #d#g#y#d#q#f#h#g#D#G#=#v#r#d#g#p r#g#h#d#q#j#/#v#x#u#i#d#f#h#p r#g#h#d#q#j#  
**Lecturer : Dr Lee KS**

### ME1111 STRENGTH OF MATERIALS (M3 L2 TO.5 PO.5 E2)

I#g#w#r#g#x#f#w#r#q# #w#r#p h#f#k#d#q#l#f#v#r#i#g#h#i#r#u#p d#e#d#h#e#r#g#l#v#i#f#r#q#f#h#s#w#r#i#h#v#h#v#v#d#q#g# #w#u#d#l#R#q#h#0#g#p h#q#v#r#q#d#d#v#l#v#h#p v#1# #V#k#h#d#u#i#r#u#f#h#d#q#g#e#h#g#l#j# #p r#p h#q#v#l#G#h#i#d#f#w#r#q#r#i#h#d#h#u#d#d# #r#d#g#h#g#r#| #p p h#w#l#f#d#d#e#h#d#p v#1# #v#h#v#h#v#h#p #d#h#u#d#d# #r#d#g#h#g#r#| #p p h#w#l#f#d#d#e#h#d#p v#1# #v#r#u#v#l#r#q#1#  
**Lecturers : Dr Lim CT, Dr Tay CJ**

### ME1131 FLUID MECHANICS I (M3 L2 TO.5 PO.5 E2)

I#g#w#r#g#x#f#w#r#q# #w#r#p #I#o#l#g#p# h#f#k#d#q#l#f#v#d#q#g# #d#v#l#l#f#d#w#r#q#r#i#h#o#l#g#d#q#g# #i#o#z#=#U#h#d#d#d#q#g# #g#h#d#Q#h#z#w#r#q#l#q#d#q#g# #q#r#q#0# #Q#h#z#w#r#q#l#q#/#v#h#d#g | #d#q#g# #x#q#v#h#d#g | #h#d#p l#q#d#u#d#q#g# #w#x#e#x#d#q#w#/#q#f#r#p s#u#h#v#l#e#d#h#I#o#l#g# #v#d#w#l#f#v#=# #k# | #g#u#r#v#d#w#l#f# #i#r#u#f#h#v#r#q# #x#e#p h#u#j#h#g#e#r#g#l#v#/#e#x#r# | #d#q#f# | #p h#w#d#f#h#q#w#l#f# #k#h#l#j#k#w#/#w#d#e#l#w#l# #r#i#h#o#r#d#w#l#j# #e#r#g#l#v#1# #S#u#l#g#f#l#s#d#v#r#i#h#o#l#g#p# #r#w#r#q#=#g#h#l#q#l#w#r#q#r#i#h#s#d#w#k#d#q#h#/#v#w#h#d#p d#q#h#/#w#h#d#n#d#q#h#d#q#g# #w#p h#d#q#h#/#f#r#q#w#l#x#l#w#l#/#e#h#u#g#r#x#o#d# #d#q#g# #h#q#h#u#j# | #h#t#x#d#w#r#q#v#/#p r#p h#q#w#p #h#t#x#d#w#r#q#d#q#g# #w#d#s#s#d#f#d#w#r#q#v#/#h#t#x#l#e#u#k#p #r#i#h#p r#y#l#j# #i#o#l#g# #l#q# #u#d#q#v#d#w#r#q# #d#q#g# #u#r#d#w#r#q# #1  
 I#o#z# #p h#d#v#x#u#p h#q#w#=#S#l#w#r#w#v#d#w#l#f# #w#x#e#h#/#y#h#q#w#x#u#p h#h#u#/#g#r#} } #d# #r#u#l#l#f#h#s#d#h#1#G#p h#q#v#r#q#d#d#Q#d#d#v#l#v#d#q#g# #V#p l#w#l#g#h#=#U#d# | #d#l#j#k#\*#p h#w#k#r#g#d#q#g# #e#x#f#n#l#j#k#d#p #\*#s#l#h#k#h#r#u#h#p #/#w#l#s#h#v#r#i#h#v#p l#d#u#l#h#v#d#q#g# #g#l#w#r#w#h#g#p r#g#h#d#q#j#1# #O#d#p l#q#d#u#d#q#g# #w#x#e#x#d#q#w# #s#h#h#i#o#z#v#=#K#d#j#h#q#O#S#r#l#v#x#l#h#h#d#z# | #h#u#l#f#w#r#q# #i#d#f#w#r#u#d#q#g# #x#v#h#r#i#h#p r#r#g# | #\*#f#k#d#w#/#r#v#v#h#v# #l#q# #s#l#h#h#l#w#l#j#v#1#  
**Lecturers : Dr Khoo BC, Dr Lim TT**

### ME1141 ELECTRICAL POWER AND MACHINES (M3 L2 TO.5 PO E2)

S#h#O#u#h#t#x#l#v#h#=#H#J#4#4#3#6  
 G#l#g#h#v#d#q#g# #w#u#d#q#v#l#w#r#w#/#S#r#z#h#u#v#x#s#s#d#h#/#V#l#j#d#h#S#k#d#v#h#D#F#/#V# | #v#h#p v#/#6#S#k#d#v#h#/#V# | #v#h#p v#/#w#u#d#q#v#i#r#u#p h#u#/#G#F# #P#r#w#r#w#/#V#h#s#s#h#u#P#r#w#r#w#/#D#F#P#r#w#r#w#/#K#r#l#f#h#r#i#h#p r#w#r#w#1#  
**Lecturers : Dr S Keerthi, Dr Teo CL**

### ME2101 DESIGN PROCESS AND APPLICATIONS (M4 L3 T1 PO CA)

S#h#O#u#h#t#x#l#v#h#=#H#4#4#4#4  
 G#h#v#l#j#q#s#u#r#f#h#v#1#G#h#v#l#j#q# #f#r#q#v#l#g#h#u#d#w#r#q#v#1#G#h#v#l#j#q# #i#r#u#v#d#w#l#f# #v#w#h#q#j#w#k#1#G#h#v#l#j#q# #i#r#u#d#w#l#j#x#h#v#w#h#q#j#w#k#/#h#q#j#l#g#h#u#l#j# #p d#w#h#u#d#o#r#d#q#g# #w#k#h#l#h#h#d#f#w#r#q#1#p d#q#i#d#f#w#u#l#j# #w#r#d#u#d#q#f#h#1#G#h#v#l#j#q#r#i#h#p d#f#k#l#h#h#d#p h#q#w#l#w#r#l#q#w#1#S#u#p#h#p r#y#h#u#v#1#  
**Lecturers : Dr Chau FS, Dr Lai MO**

### ME2111 MECHANICS OF MATERIALS (M3 L2 TO.5 PO.5 E2)

S#h#O#u#h#t#x#l#v#h#=#H#4#4#4#4  
 W#z#r#0#g#p h#q#v#r#q#d#d#v#l#v#h#p v#1# #e#r#p e#l#g#h#g#/#v#h#v#h#v#1#H#q#h#u#j# | #p h#w#k#r#g#v#1# #e#r#o#x#p#q#v#1#H#( #s#h#u#p h#q#w#d#d#w#h#v#v#d#q#d#d#v#l#v#1# #l#g#h#d#w#l#f#e#h#k#d#y#l#r#u#l#  
**Lecturers : Dr Cheng L, Dr Tay CJ**

### ME2112 THEORY OF MECHANISMS (M3 L2 TO.5 PO.5 E2)

D#q#d#d#v#l#v#h#p #i#h#f#k#d#q#l#p v#1# #e#d#d#q#f#h#r#i#h#p d#f#k#l#h#u# | #h#d#u#h#u#d#l#v#1#V#p l#p s#d#h#k#u#h#0#g#p h#q#v#r#q#d#d#q# | #q#d#p l#f#v#r#i#h#l#j#l#j# #e#r#g#l#v#1# #y#l#e#u#d#w#r#q#r#i#h#p d#f#k#l#h#u# | #  
**Lecturers : Dr Chew CH, Dr Lim KM**

### ME 2121 ENGINEERING THERMODYNAMICS (M3 L2 TO.5 PO.5 E2)

S#h#O#u#h#t#x#l#v#h#=#H#J#4#4#3#8  
 U#h#y#l#z# #r#i#h#l#u#v#d#z# #d#q#g# #w#d#s#s#d#f#d#w#r#q#v#1#W#k#h#V#h#f#r#g# #o#z# #r#i#h#W#k#h#p r#g# | #q#d#p l#f#v#1#U#h#y#h#u#l#e#d#h#d#q#g# #l#u#h#y#h#u#l#e#d#h# #s#u#r#f#h#v#h#1#H#q#w#r#s# | #H#q#r#q#0#i#o#z# #d#q#g# #i#o#z# #s#u#r#f#h#v#h#1#d#q#g# #f#d#v#H#q#y#r#o#l#j# #h#q#w#r#s# | #e#k#d#q#j#h#v#1#S#r#z#h#u#d#q#g# #u#h#u#l#j#h#u#d#w#r#q#d#q#g# #d#l#u#e# | #f#d#v#1# #g#h#d# #j#d#v#p# | { #w#u#h#v#/#s#v# | #f#k#u#r#p h#w#l# | #d#q#g# #d#s#s#d#f#d#w#r#q#v#1#I#x#h#o#v#1# #e#r#p e#x#v#w#r#q#d#q#g# #I#l#u#v# #o#z# #d#s#s#d#h#g# #w#r#e#r#p e#x#v#w#r#q#1#  
**Lecturers : Dr Ho JC, Dr Yap C**

### ME 2122 HEAT TRANSFER (M3 L2 TO.5 PO E2)

S#h#O#u#h#t#x#l#v#h#=#H#J#4#4#3#8  
 V#w#d#g# | #r#q#h#0#g#p h#q#v#r#q#d#d#q#g# #w#z#r#0#g#p h#q#v#r#q#d#d#h#w#d#f#r#g#g#x#f#w#r#q#l#k#q#v#h#d#g# | #k#h#w#d#f#r#g#g#x#f#w#r#q#l#D#o#x#p#s#h#g#v# | #v#h#p #

dqddj vlv1#H {wngghg#vXuiddfvh1#K | gurq | qdp lfdqg#kxhup d#erxqgdul #ad | huw1#Odp lqdu#dqg#wuxedqg#wirufhg# frqyhfwirq1#Uj | qrgv#kqdarj | 1#Huh#frqyhwirq1#Khdw#h { fkdqj huw1#E adfn#dqg#j ud | #erg | #idgldwirq1#U dgldwirq# ehvz hng#j lixvh#vXuiddfvh1# **Lecturers : Dr Ezra E, Dr Lee SG**

**ME2133 FLUID MECHANICS II (M4 L2.5 T1 PO.5 E3)**

SuhOuhxlvlnh=# H4464  
K | gudxdf#sxp sv=#i { lddqg#p l {hg#iarz #sxp sv#dqg#frp suhvrvw/#v#p lauluw | #dz v/#vshflif#vshhg/#edyldwirq/# shuirup dqfh#fkdudfwuhwlvf1#K | gudxdf#wxueqhv=#w | shv#e i#wxueqhv/#shuirup dqfh#fkdudfwuhwlvf1#

Ighd#iarz =#wuhdp #ixqfwirq/#srwhqwid#ixqfwirq1#F lufxawwirq1#F ruwiflw | 1#Nhgylq\*#khrup 1#Vrxufh#dqg#vlgv1#H Irufhg#dqg#huh#yrwifhvl#V ruw { #grxedwv1#F arz #sdv#v#p sd#he rg lrv1#P hwkrg#e i#p djhv1#V lvrxv#iarz =#Q dy lhu0 Vwrnhv#htxdwirqv1#V arz /#kdp lqdu/#kqvwhdg | #iarz 1#Oxeulfdwirq#khrul #dqg#Uj | qrgv#htxdwirq1#E rxqgdul #ad | hu# htxdwirqv1#V rq#Ndup dq#htxdwirq1#E adxvkv#vrxwirq1#Wxuecdqg#iarz #htxdwirqv1#Uj | qrgv#wuhvvhv1#Nwuxedqgfl p rghov1#Srzh#Odz 1# **Lecturers : Dr Thoroddsen S, Dr Winoto SH**

**ME2141 APPLIED ELECTRONICS AND INSTRUMENTATION (M3 L2 TO.5 PO.5 E2)**

SuhOuhxlvlnh=#HJ 4436  
Wkh#U hghudal#hg#P hdvuhp hq#w#V | vwhp /#Wudqvgxfhw/#E ulgjhv#dqg#Wkhlu#D ssdfdwirqv/#R shudwirqdd#Dp sdilhuw# dqg#D ssdfdwirqv/#V lj qd#F rqqldwirqlqj /#G lj lwd#H dhfwurqlfv1# **Lecturer : Dr Teo CL**

**ME2142 FEEDBACK CONTROL SYSTEMS (M3 L2 TO.5 PO.5 E2)**

SuhOuhxlvlnh=#HJ 4735  
J hghudal#qwgxfwirq#r#D#wrcp dwif#F rqwuro#Uhylnz #e i#P dwkhp dwifd#E dfnjurxqg/#P dwkhp dwifd#P rghd#e i# Sk | vldd#V | vwhp v/#Wudqvlhgw#Uhvsvrgh#Dqdd vlv/#V | vwhp #Vwde lkw | #dqg#Vwhdg | #Vwdeh#fkdudfwuhwlvf/# Iuhtxhgf | #Uhvsvrgh#Dqdd vlv/#F rqwur#V | vwhp #G hvlj q# **Lecturer : Dr Ong CJ**

**ME2151 FUNDAMENTALS OF MATERIALS ENGINEERING (M3 L2 TO.5 PO E2)**

Faivvliifdwirq#e i#p dwhuldov1#Dwrcp l#v#wx fwxuh#dqg#e rqq lqj #G lixv1#rql#Skdvh#htx lbeukl1#Hqj lghhulqj #surshwlv# Ghirup dwirq#dqg#wuhqj wkhq lqj #p hfkdg lvp v1#K { lgdwirq#dqg#F ruurvlrq1# **Lecturer : Dr Lim C**

**ME 2162 MATERIALS PROCESSING (M3 L2 TO.5 PO.5 E2)**

Fxwqlqj #wrc#p dwhuldov1#V lqj d#dqg#p xwldsr lq#wrcrov1#N | shv#e i#z hdu1#P dqxidfwulqj #surfhwvvhv=#F r#dqg#krw# z runlqj /#uradqj /#h { wuxvlrq/#iruj r lqj /#khhw#dqg#p hwd#e adqnlqj #dqg#irup lqj /#F r#dqg#irup lqj /#e h#q lqj /#eud } lqj /# vr#ghulqj /#F d#wqlqj /#srz ghup# hwd#xuj | /#e adwifv#h#fkqrarj | #Q r q0 frqyhqwrqdd#p d fklq lqj =#h dhfwurqg lrvfkdulj #p d fklq lqj 1# **Lecturers : Dr Rahman, Dr KH Seah**

**ME 2491 ENGINEERING MATHEMATICS I (M3 L2 TO.5 PO E2)**

SuhOuhxlvlnh=#HJ 4735  
Sduwld#G liihuhqwid#htxdwirqv1#V wdwlvfdd#p hwkrgv=#suredelw | #khrul /#G lvwulxwlvqv#e i#frp p rqq#lvfuhh#dqg# frqwlqrxrv#yduid#dv/#fhqwud#D#p l#khrup /#vdp sdqj /#hvwqlqj #e i#k | srwkhvlv1#Dds adfn#wudqvirup dwirq1# Frp sd { #yduid#dv1# **Lecturers : Dr Leng G, Dr Quan C**

**ME2492 ENGINEERING MATHEMATICS II (M3 L2 TO.5 PO E2)**

SuhOuhxlvlnh=#HJ 4735  
Y hfwru#G liihuhqwid#d#f d#f#oxv#dqg#y#hfwru#i#hgvl#Dlqh#dqg#vXuiddfvh#lqwhj udov1#G lyhuj hqfh#khrup 1#Vwrnh\*# wkhruh#p 1#Q xp huifd#v#oxwirq#e i#e rug lqdu | #G liihuhqwid#htxdwirqv=#lvw#e rughu/#k ljkhu#rughu/#v#p xwdqhrxv# htxdwirqv/#G lwd#dqg#erxqgdul #ydox#sure d#p v1# **Lecturers: Dr Lim KM, Dr Tan V**

**ME3101 MECHANICAL SYSTEMS DESIGN (M5 L1 T1 P3 CA)**

SuhOuhxlvlnh=#H 5434  
P hfkdg lvp v1#K v#h#e i#ghvlqj #F rghv1#lqwgxfwirq#r#e frp sxwuh#lghg#ghvlqj 1#Surthfwil# **Lecturer : Dr Fuh J**

**ME3211 MECHANICS OF SOLIDS (M3 L2 TO.5 PO E2)**

SuhOuhxlvlnh=#H 5444  
Olgduh#adwiflw | #Kqv | p p huifd#e hqg lqj #e i#hd#p v1#Wk lfnz d#hg#F | dqghuv1#V wuhvvhv#dq#urwldqj #p hp ehuv1# Wruvlrq#e i#sulp dwif#e duv#e i#k r q0 f lufxaw#furvvovhfwirq1#E hqg lqj #e i#f lufxaw#e adwv1#H adwv#s adwif#dqdd vlv1# H { shup hqwd#vwhv#lqdd vlv1# **Lecturers : Dr Dr Tay TE, Dr Toh SL**

**ME 3221 ENERGY CONVERSION PROCESSES (M3 L2 TO.5 PO E2)**

SuhOuhxlvlnh=#H 5454  
Hiilflhgq | #p suryhp hq#w#e i#vhd#p #srz hu#F | f d#v#k#urxj k #k#h#v#h#e i#huj hghudwirq#dqg#e lqdu | #iox lgv#surfhwvvhv1# Dyd#le d#hghuj | #dqg#ydyd#le d#hghuj | #fkddj hv#lq#k#hup d#surfhwvvhv/#V hfrqg#Odz #h iilflhgq | #F rp exvwirq# surfhwvvhv1#Dqdd vlv#e i#hghuj | #dqg#e run#lqwhudfwirqv#e i#e dvl#p hfkdg lfd#h#qj lghhulqj #khrup d#surfhwvvhv#k#fk wkrv#e i#h#f#s#urfdwqlqj #dqg#fhq#wlixj d#frp suhvrvw#dqg#d { ldd#iarz #w#e lqhv1# **Lecturers : Dr Chua E, Dr Hawlader, Dr Ho JC**

**ME3231 COMPRESSIBLE AND UNSTEADY FLOW (M3 L2 TO.5 PO E2)**

SuhOuhxlvlnh=#H 4464  
Frp suhvvl#ch#iarz =#rxevrq lfdqg#v#shwvq lfd#iarz /#frqyhuj lqj #0#G lyhuj lqj #q#r } #dv/#Sudqg#Dp h | hu#iarz v/#

I dqqrDlqh/#Ud| dnlj kDlqh/#rgh#dgg#p xwldg#p hqv#rqqd#i#r z v/#k lq#d#lur lv#lq#v#shuvrq#f#i#r z /#p h#krg#r#i# f#kdu#fwhulw#v#p# h#dvxuhp hq#w#i#shuvvxuh/#h#p shudw#xuh#dgg#y#h#r#f#l#l#H#q#v#h#d#g|#i#r z #lq#lq#g#v#w#l#d#h#i#o#l#g# v|#v#h#p=##d#q#d#q#v#l#r#i#shuvvxuh#x#u#j#h#v#h#o#v#w#l#f#s#l#h#k#h#r#u|#/h#q#x#p h#u#l#f#d#h#r#o#v#w#l#r#q/#p h#krg#r#i#f#kdu#fwhulw#v#l#v#l# W#u#d#q#l#h#q#w#f#d#x#v#g#e|#i#shudw#r#q#r#i#i#o#l#g#p#d#f#k#l#q#h#l#l#Y#d#u#l#r#x#v#p# h#krg#v#r#i#f#r#q#w#r#o#l#g#i#shuvvxuh#x#u#j#h#v#h#q# l#g#v#w#l#d#h#i#o#l#g#v|#v#h#p#I#Lecturers : Dr Lee TS, Dr Lim TT

**ME3241 MICROPROCESSOR AND MICROCOMPUTER APPLICATIONS (M3 L2 TO.5 PO E2)**

FrOuhtxlv#h=#H5474

Qxp ehulqj#N|#v#h#p#D#q#g#F#r#g#h#v#p#l#f#u#r#s#u#r#f#h#v#r#u#D#u#f#k#l#h#f#w#k#u#h#D#v#v#h#p#e#q|#O#d#q#j#x#d#j#h#l#q#s#x#v#2#R#x#s#x#w#

P#l#f#u#r#f#r#p#s#x#w#u#D#s#s#d#f#d#w#l#r#q#v#l#q#i#q#j#l#h#h#u#l#q#I#Lecturer : Dr Hong GS

**ME3242 INDUSTRIAL AUTOMATION (M3 L2 TO.5 PO E2)**

FrOuhtxlv#h=#H5474

U#y#l#z#r#i#p#r#r#d#d#q#D#o#j#h#e#u#d#N#z#l#f#k#l#q#j#H#d#p#h#q#w#/#G#h#v#l#j#q#r#i#v#h#t#x#h#q#w#l#d#d#F#r#q#w#r#q#N|#v#h#p#v#/#S#q#h#x#p#d#w#l#f#F#l#u#f#l#w#/#

V|#v#h#p#v#h#l#k#h#d#q#g#r#p#l#q#s#x#w#/#S#u#r#j#u#d#p#d#e#h#O#r#j#l#F#r#q#w#r#o#v#w#l#q#g#S#F#h#e#d#v#h#g#v#h#t#x#h#q#f#h#F#r#q#w#r#d#I#Lecturers : Dr Hong GS, Dr Poo AN

**ME3251 MATERIALS FOR ENGINEERS (M3 L2 TO.5 PO E2)**

Su#h#O#u#h#t#x#l#v#h#=#H#J#4439

F#r#q#v#l#g#h#u#d#w#l#r#q#v#l#q#h#q#j#l#h#h#u#l#q#j#h#v#l#j#q#h#v#l#j#q#h#i#r#u#j#p#h#q#w#l#r#q#d#d#w#d#e#l#w#l#2#d#f#f#x#u#d#f|#/#g#h#v#l#j#q#h#j#d#l#q#v#w#h#u#d#f#w#k#u#h# i#d#b#x#u#h#/#r#k#h#u#h#d#v#h#f#w#l#q#h#h#v#l#j#q#/#f#d#v#h#v#w#k#g#l#v#>#p#h#w#d#o#r#d#q#g#h#d#o#r|#v#h#i#u#r#x#v#h#i#q#g#q#r#q#O#i#h#u#r#x#v#h#i#o#r|#v#/#x#u#i#d#f#h# w#h#d#p#h#q#w#l#q#g#f#r#d#w#l#j#v#/#r#l#q#l#j#r#i#p#h#w#d#o#r#/#f#d#v#h#v#w#k#g#l#v#/#h#q#j#l#h#h#u#l#q#j#f#h#u#d#p#l#f#v#h#d#g#y#d#q#f#h#v# v#w#x#f#w#u#d#h#q#j#l#h#h#u#l#q#j#f#h#u#d#p#l#f#v#/#r#x#j#k#h#q#l#j#p#h#f#k#d#q#l#p#v#/#d#s#d#f#d#w#l#r#q#v#h#i#q#g#h#v#h#v#w#k#g#l#v#/#h#s#r#q#p#h#u#v#h#y#l#z#r# i#s#r#q#p#h#u#h#l#s#h#v#/#w#w#x#f#w#k#u#h#O#s#u#r#s#h#u#l#h#h#o#v#w#l#r#q#v#k#l#s#v#/#s#u#r#f#h#v#v#l#j#q#/#f#d#v#h#v#w#k#g#l#v#/#h#s#r#q#p#h#u#l#f#p#d#w#l#f#f#r#p#s#r#v#l#h#v# #w#l#s#h#v#d#q#g#s#u#r#s#h#u#l#h#v#r#i#h#l#h#u#h#l#q#i#r#u#f#g#f#r#p#s#r#v#l#h#v#/#o#p#l#q#d#w#h#g#f#r#p#s#r#v#l#h#v#/#d#s#d#f#d#w#l#r#q#v#h#i#q#g#h#v#h# v#w#k#g#l#v#>h#v#l#j#q#h#d#q#g#p#d#w#h#u#d#o#r#h#d#f#w#l#r#q#s#u#r#f#h#v#v#r#i#h#v#l#j#q#h#d#q#g#p#d#w#h#u#d#o#r#h#d#f#w#l#r#q#/#h#f#r#q#r#p#l#f#h#v#h#f#w#l#q# #p#d#w#h#u#d#o#r#h#d#f#w#l#r#q#/#f#d#v#h#v#w#k#g#l#v#I#Lecturer : Dr Lim LC

**ME3261 PRINCIPLES OF CAD/CAM (M3 L2 TO.5 PO E2)**

F#D#G#=#U#h#r#p#h#w#l#f#p#r#g#h#o#l#g#/#F#x#y#h#v#/#V#x#u#i#d#f#h#v#/#N#r#d#g#p#r#g#h#d#q#j#>#F#D#P#=#I#d#e#u#l#f#d#w#l#r#q#r#i#s#d#w#e|#/#Q#F#p#d#f#k#l#q#l#j# #e#d#v#g#r#q#j#h#r#p#h#w#l#f#p#r#g#h#d#d#v#l#f#v#r#i#p#F#Q#F#N#x#u#l#q#j#h#d#q#g#p#l#o#l#g#/#N#r#d#o#r#d#k#h#h#q#h#u#d#w#l#r#q#h#l#q#F#D#G#2#F#D#P#>#F#D#P#=# Y#h#u#l#f#d#w#l#r#q#r#i#h#I#d#e#u#l#f#d#w#h#g#S#d#w#e|#/#Q#F#p#h#d#v#x#u#h#h#q#w#e#d#v#h#g#r#q#h#r#p#h#w#l#f#p#r#g#h#o#l#g#j#p#h#q#v#l#r#q#l#j# #d#q#g#N#r#d#u#d#q#f#l#j#h#e#d#v#l#f#v#r#i#p#r#p#s#x#w#u#d#x#w#r#p#d#w#h#g#p#h#d#v#x#u#h#h#q#w#F#Q#F#S#u#r#h#f#w#e#I#d#e#u#l#f#d#w#l#r#q#r#i#p#d#w#l#j#h#s#d#w#e|#/# F#Q#F#p#d#f#k#l#q#l#j#h#l#k#h#p#h#d#v#x#u#h#h#q#w#e|#/#P#P#/#Q#F#N#x#u#l#q#j#2#P#l#o#l#g#/#P#P#I#Lecturers : Dr Wong YS, Dr Zhang YF

**ME3262 INDUSTRIAL METROLOGY (M3 L2 TO.5 PO E2)**

S#k#l#v#r#s#k|#r#i#p#h#d#v#x#u#h#h#q#w#l#v#s#h#f#l#i|#l#q#j#h#t#x#l#h#p#h#q#w#l#e#d#v#l#f#p#h#f#k#d#q#l#f#d#d#p#h#d#v#x#u#l#j#h#q#v#w#x#p#h#q#w#d#q#g#e#o#r#f#n# #j#d#x#j#h#v#l#H#J#G#)#/#N#/#O#l#q#h#d#u#d#q#g#d#q#j#x#o#h#p#h#d#v#x#u#h#h#q#w#l#e#p#h#d#v#x#u#h#h#q#w#e#i#h#o#w#q#h#v#/#h#r#x#q#g#h#v#h#i#q#g#v#x#u#i#d#f#h# #l#q#l#v#k#l#h#q#w#h#u#h#r#p#h#w#h#u#h#d#q#g#h#s#d#f#d#w#l#r#q#v#l#q#O#s#u#r#f#h#v#h#p#h#d#v#x#u#h#h#q#w#l#q#g#h#d#x#w#r#p#d#w#h#g# #l#v#h#f#w#l#r#q#I#F#r#r#u#g#l#q#d#h#p#h#d#v#x#u#l#j#p#d#f#k#l#h#F#P#P#I#Lecturers : Dr Lim HS, Dr Mannan

**ME3263 DESIGN FOR MANUFACTURING AND ASSEMBLY (M3 L2 TO.5 PO E2)**

I#q#w#r#g#x#f#w#l#r#q#/#N#h#d#f#w#l#r#q#r#i#p#d#w#h#u#d#o#r#d#q#g#s#u#r#f#h#v#h#v#/#S#u#r#g#x#f#w#h#v#l#j#q#h#r#u#p#d#q#x#d#d#l#v#h#p#e#q#/#G#h#v#l#j#q#h#i#r#u# #d#x#w#r#p#d#w#l#f#h#v#h#p#e#q#d#q#g#h#r#e#r#w#l#f#h#v#h#p#e#q#/#G#h#v#l#j#q#h#r#u#p#d#f#k#l#q#l#j#/#G#h#v#l#j#q#h#i#r#u#h#d#s#l#g#s#u#r#w#l#s#l#j#h#d#q#g#h#r#d#q#j#/# G#h#v#l#j#q#h#i#r#u#h#d#f#w#l#r#q#p#r#x#o#l#j#I#Lecturers : Dr Fuh J, Dr Kumar, Dr Lee KS

**ME3291 NUMERICAL METHODS IN ENGINEERING (M3 L2 TO.5 PO E2)**

Su#h#O#u#h#t#x#l#v#h#=#H#J#4734/#H#J#4735

Q#x#p#h#u#l#f#d#d#q#d#q#v#l#r#O#u#r#r#w#r#i#h#t#x#d#w#l#r#q#v#/#F#x#y#h#v#h#l#w#l#q#j#h#d#q#g#q#x#p#h#u#l#f#d#d#q#h#j#u#d#w#l#r#q#I#H#l#q#l#h#g#l#i#h#u#q#f#h#p#h#w#krg#r#i#r#u# #s#d#w#l#d#d#g#l#i#h#u#q#w#h#t#x#d#w#l#r#q#v#l#h#z#h#l#j#k#w#h#g#h#v#l#g#x#d#d#q#g#p#h#w#krg#v#l#H#l#q#l#h#h#d#p#h#q#w#p#h#w#krg#h#d#s#d#f#d#w#l#r#q#r#r#q#h#O#g#p#h#q#w#l#r#q#d#s#u#r#e#d#p#v#l#I#Lecturers : Dr Khoo BC, Dr Tay AO

**ME4101 BACHELOR OF ENGINEERING DISSERTATION (M8 L0 TO P10 CA)**

Su#h#O#u#h#t#x#l#v#h#=#F#r#p#s#d#w#h#d#w#h#d#v#h#33#P#F#r#i#h#j#h#h#h#t#x#l#h#p#h#q#w# W#k#l#p#r#g#x#d#h#r#q#v#l#w#v#r#i#h#h#h#d#u#f#k#O#e#d#v#h#g#s#u#r#h#f#w#k#g#h#h#k#h#v#x#s#h#u#y#l#v#l#r#q#r#i#h#q#h#r#u#p#r#u#h#d#f#g#h#p#l#f#v#d#i#h# #p#h#p#e#h#w#l#w#l#v#r#p#d#o#l#h#d#h#g#r#y#h#u#h#z#r#f#r#q#v#h#f#x#w#y#h#h#v#h#p#h#v#h#v#l#h#

**ME4102 SYSTEM DESIGN PROJECT (M5 L0.5 TO P3 CA)**

FrOuhtxlv#h=#H6434

W#k#l#v#h#h#d#j#u#r#x#s#O#e#d#v#h#g#s#u#r#h#f#w#k#d#w#r#f#x#v#h#v#r#q#h#k#h#g#h#v#l#j#q#r#i#f#r#p#s#d#w#h#p#h#f#k#d#q#l#f#d#d#v|#v#h#p#v#l#h#i#h#f#w#y#h#j#u#r#x#s# #g|#q#d#p#l#f#v#d#q#g#v|#v#h#p#h#q#w#h#j#u#d#w#l#r#q#h#z#r#u#n#d#h#h#h|#/#e#h#f#w#y#h#v#r#i#h#k#l#p#r#g#x#d#h#I#Lecturer : Dr Zhang YF

**ME4105 SPECIALIZATION STUDY MODULE (M3 L0.5 TO PO CA)**

W#k#l#p#r#g#x#d#h#r#q#v#l#w#v#r#i#h#h#h#d#u#f#k#r#h#d#f#k#l#j#h#q#h#k#h#h#v#h#d#f#w#h#p#d#h#d#v#r#i#h#v#h#f#l#d#d#w#l#r#q#r#i#h#u#h#g#e|#/# w#k#h#g#h#s#d#w#p#h#q#w#l#w#k#h#p#r#g#x#d#h#r#p#s#u#l#h#v#h#d#h#w#x#f#w#k#u#h#g#s#u#r#j#u#d#p#h#h#r#i#h#p#l#q#d#w#h#p#h#d#s#h#u#v#h#d#q#g#p#l#l#O# #s#u#r#h#f#w#r#e#h#j#y#h#q#e|#/#d#j#u#r#x#s#r#i#v#d#i#h#p#e#h#u#e#d#v#h#g#r#q#h#k#h#l#h#f#x#u#h#q#w#h#h#v#h#d#u#f#k#h#q#w#h#u#v#w#h#q#h#k#h# #v#h#f#l#d#d#w#l#r#q#h#d#h#d#l#h#k#h#s#u#r#j#u#d#p#h#h#f#r#q#w#h#g#y#l#i#h#u#v#h#r#u#g#l#i#h#u#q#w#v#h#f#l#d#d#w#l#r#q#h#d#h#d#v#l#

**ME4211 APPLIED MECHANICS (M3 L2 TO.5 PO E2)**

SuhOuhTxlvlnh=#H5444

Vp dæghidnfwirg#i#kq#sæwhv1#hdv v#r#g#hævwif#irxqgdwlrq1#Wkhrul#i#kq#vkhæw1#lqvde l#w| 1#lqwgx#fwirg# w#p hfkdg lfv#i#frp srvlh#p dhuudor1#**Lecturers : Dr Tay TE, Dr Toh SL**

**ME4212 MECHANICS OF THIN-WALLED STRUCTURES (M3 L2 TO.5 PO E2)**

SuhOuhTxlvlnh=#H5444

Sulg f l s d n v #r i #wuhvvhg#n l q #f r q v w u x f w i r q 1 #W k l q O z d æ g #w u x f w x u h v 1 #W z l w l g j #r i #k q #v k h æ w 1 #W d s h u h g #w u x f w x u h v 1 # W r w l r q #r i #h f w l r q v 1 #l q v d e l #w | #h i h f w #l q #w u x f w x u h v 1 #**Lecturers : Dr Lin KY, Dr Tan V**

**ME4213 VIBRATION THEORY AND APPLICATIONS (M3 L2 TO.5 PO E2)**

l q w r g x f w i r q #r i #v | p s d #y l e u d w l q j #v | v n p 1 #p x æ l g h j u h #r i #h h g r p #v | v n p v 1 #D j u d g j h #v #t x d w i r q 1 #f r q w l q x r x v # v | v n p v 1 #D s s u r | l p d w l r q #p h k r g v 1 #l q v w u x p h q w d w i r q #r u #y l e u d w i r q #p h d v x u h p h q w #**Lecturers : Dr Lim SP, Dr Liu GR**

**ME 4223 THERMAL ENVIRONMENTAL ENGINEERING (M3 L2 TO.5 PO E2)**

SuhOuhTxlvlnh=#H5454/#H5455

K h d w #j d l q v #k u r x j k #e x l g l q j #h q y h æ s h v 1 #f r r d g j #r d g #d f x æ w l r q v 1 #S v | f k u r p h u l f v 1 #D l #f r q g l w i r q l q j #g h v l j q # f d f x æ w l r q v 1 #D l #f r q g l w i r q l q j #v | v n p v 1 #D l #f r q g l w i r q l q j #s æ q w #d g g #t x l s p h q w #D l #f r q g l w i r q l q j #f r q w æ r # H q h u j | #d y l q j v #l q #D l #f r q g l w i r q l q j 1 #**Lecturers : Dr Wijeyesundera, Dr Yap C**

**ME 4225 INDUSTRIAL HEAT TRANSFER (M3 L2 TO.5 PO E2)**

SuhOuhTxlvlnh=#H5455

D s s æ d f w i r q #r i #e d v l f #k h d w #u d q v i h u #p r g h v #v x f k #d v #f r q g x f w i r q #d g g #f r q y h f w i r q #l q #k h #h y d o x d w i r q #d g g # s h u i r p d q f h #r i #g g x v w u d k #k h u p d æ s u r f h v v h v #v x f k #d v #f r r d g j #r i #h d f w u r q l f #f r p s r g h q w #d g g #s d f n d j h v #e r l d j j # d g g #h y d s r u d w i r q #p d v v #u d q v i h u #d g g #k h d w #u d q v i h u #h q k d q f h p h q w #**Lecturer : Dr Wijeyesundera**

**ME 4226 ENERGY & THERMAL SYSTEMS ANALYSIS (M3 L2 TO.5 PO E2)**

SuhOuhTxlvlnh=#H5454/#H5455

S u l g f l s d n v #r i #s h u d w i r q #d g g #e d v l f #s h u i r p d q f h #h y d o x d w i r q #r i #p h f k d q l f d #k h u p d æ v | v n p v #l q #f r q y h q w i r q d d #d g g # g h z 0 w h f k q r æ j | #d u h d v #v x f k #d v #d e v r u s w i r q #f r r d g j #f r q y h q w i r q d d #d g g #f r p s d f w #k h d w #h { f k d q j h v #w h d p #s r z h u # s æ l q w #f r p e l q h #f | f d i #p l f u r #j d v #æ u e l q h v #f r j h q h u d w i r q #d g g #i x h #f h æ w 1 #

**ME4231 AERODYNAMICS AND PROPULSION (M3 L2 TO.5 PO E2)**

SuhOuhTxlvlnh=#H5466

F k d u d f w u l w i f v #d g g #s d u d p h w h v #i r u #d l i u r l #d g g #z l q j #d h u r g | q d p l f v 1 #W z r #g l p h q v l r q d d #l q f r p s u h v v l e d #i æ z # d u r x q g #k l q #d l i u r l v 1 #l q f r p s u h v v l e d #i æ z #d e r x w #l q l h 0 v s d g #z l q j v 1 #D h u r g | q d p l f #g h v l j q #f r q v g h u d w i r q v 1 # F r p s u h v v l e d #i æ z #e v r q l f #u d q v r q l f #d g g #v x s h u v r q l f #i æ z v #d u r x q g #d l i u r l v 1 #v x s h u v r q l f #i æ z #d e r x w #l q l h 0 v s d g # z l q j v 1 #D l u f u d i w #s u r s x æ l r q 1 #**Lecturers : Dr Chew YT, Dr Luo SC**

**ME4233 COMPUTATIONAL METHODS IN FLUID MECHANICS (M3 L2 TO.5 PO E2)**

SuhOuhTxlvlnh=#H5466

E d v l f #k k h r u | #r i #g l v f u h w l #d w i r q 1 #f æ v v l i f d w i r q #r i #t x d w i r q v 1 #V r o x w i r q #p h k r g v #i r u #s d u e r æ f #d g g #h æ s w i f # h t x d w i r q v 1 #V r o x w i r q #r i #Q d y l u 0 V w r n h v #d g g #h q h u j | #t x d w i r q v 1 #**Lecturers : Dr Shu C, Dr Yeo KS**

**ME4234 EXPERIMENTAL METHODS IN FLUID MECHANICS (M3 L2 TO.5 PO E2)**

SuhOuhTxlvlnh=#H4464

V l p l æ w g h v #d g g #p r g h æ d j 1 #z l g #w x q q h d #g h v l j q 1 #p h d q #d g g #i æ f w æ d w l q j #y h æ r f l w | #p h d v x u h p h q w #p h d q #d g g # i æ f w æ d w l q j #s u h v v x u h #p h d v x u h p h q w #v k h d u #v w u h v v #p h d v x u h p h q w 1 #z l g #w x q q h d #e æ r f n d j h #f r u h f w i r q 1 #l q g #s æ l w h # f r q l j x u d w i r q v 1 #i æ z #y l x d d #d w i r q 1 #V l j q d d #d q d q v l v #g d w d #d f t x l v l w i r q / #s u r e d e l #w | #k k h r u | #f r u h æ w l r q #v w x g l v #/ v s h f w æ d #d g d q v l v 1 #**Lecturers : Dr Luo SC, Dr Shah D**

**ME4243 COMPUTER VISION (M3 L2 TO.5 PO E2)**

SuhOuhTxlvlnh=#H4735

l q w r g x f w i r q #f i d n p h q w #r i #G l j l æ d #p d j h #s u r f h v v l j q #v | v n p v #G l j l æ d #p d j h #l x q d p h q w æ r #p d j h # W u d q v i r p d w i r q #d g g #h q k d q f h p h q w #p d j h #v h j p h q w d w i r q #U h s u h v h q w d w i r q #S d w h u g #U h f r j q l w i r q 1 #**Lecturers : Dr Burdet E, Dr Lim KB**

**ME 4245 ROBOTICS (M3 L2 TO.5 PO E2)**

SuhOuhTxlvlnh=#H47352FrOuhTxlvlnh=#H5475

l q w r g x f w i r q #v s d w d d #h v f u s w i r q v #d g g #W u d q v i r p d w i r q v #p d q l s x æ w r u #r u z d u g #d g g #q y h u w h #N l q h p d w i f v # P h f k d q l f v #r i #U r e r w #G | q d p l f v #w d w l f #r i r u f h v #d g g #W r u t x h v #W u d i n f w r u l #S æ l q q l j #U r e r w #f r q w æ r d #**Lecturer : Dr Ang M**

**ME4246 LINEAR SYSTEMS (M3 L2 TO.5 PO E2)**

SuhOuhTxlvlnh=#H5475

l q w r g x f w i r q #w r #v d w h 0 v s d f h #p r g h q #v r o x w i r q #r i #v d w h 0 v s d f h #p r g h q #f d q r q l f d d #r u p v #r i #v d w h 0 v s d f h #p r g h q # F r q w æ r æ d e l #w | #d g g #R e v h u y d e l #w | #v d w h #l h h g e d f n #d g g #v d w h #f w v p d w i r q #O l q h u d #t x d g u d w l f #R s w p d #f r q w æ r q # V d e l #w | 1 #**Lecturers : Dr Ong CJ, Dr Subramaniam V**



**ME4284 MICRO SENSORS & MICRO ACTUATORS (M3 L2 TO.5 PO E2)**

Fryhuv#k#h#e#d#v#f#s#u#l#f#s#d#v#e#h#k#l#g#k#h#y#d#u#r#x#v#w#|#s#h#v#r#i#p#|#f#u#r#v#h#q#v#r#u#v#l#g#g#p#|#f#u#r#d#f#w#d#w#r#u#l#

**ME 4285 MODELLING AND SIMULATION IN MST (M3 L2 TO.5 PO CA)**

P rghdqj #lqg#qxp hulfd#v#p xawlrq#r i#k#h#i#d#e#u#l#f#d#w#r#q#s#u#r#f#h#v#v#l#g#g#k#h#r#s#h#u#d#w#r#q#r#i#p#|#f#u#r#g#h#y#l#f#h#v#l#g#g#h#q#w#l#h#h#  
 l#w#j#u#d#w#g#p#|#f#u#r#v#|#w#h#p#v#h#u#h#e#h#f#r#p#l#j#j#q#g#l#v#h#q#v#d#e#d#l#g#k#h#g#h#y#h#r#s#p#h#q#w#r#i#p#H#P#V#l#r#p#s#x#w#h#u#d#l#g#h#g#h#v#l#j#q#  
 +FDG ,#f#d#g#v#l#q#l#l#f#d#q#w#l#h#g#x#f#h#k#h#q#x#p#e#h#u#r#i#f#r#v#w#l#h#u#l#d#l#g#g#h#u#r#u#v#h#s#v#r#q#k#h#z#d#|#w#r#d#g#r#s#w#p#l#h#g#  
 s#u#r#w#r#w#l#s#h#l#

**ME 4291 FINITE ELEMENT ANALYSIS (M3 L2 TO.5 PO E2)**

Suh0uhtxlv#h=#H57<5  
 Iqurqxfwlrq#l#l#h#g#s#u#r#e#d#p#v#l#v#w#u#x#u#d#d#l#g#g#v#r#d#g#p#h#f#k#d#q#l#f#v#s#u#r#e#d#p#v#l#s#d#w#h#v#l#p#h#v#k#g#h#v#l#j#q#l#p#r#g#h#o#l#j#l#g#g#  
 y#h#u#l#l#f#d#w#r#q#l#h#q#v#w#x#f#w#l#r#q#r#q#k#v#h#r#i#d#l#l#q#l#h#h#d#p#h#q#w#r#r#i#w#d#h#s#d#f#n#d#j#h#l#**Lecturers : Dr Laulusaa, Dr Liu GR**

**ME4292 BIOENGINEERING (M3 L2 TO. 5 PO E2)**

Suh0uhtxlv#h=#H4464/#H5444  
 Kxp dq#r#r#p#r#w#r#q#l#W#l#v#x#h#e#l#p#h#f#k#d#q#l#f#v#l#R#u#k#r#s#d#h#g#l#f#p#s#a#i#q#w#l#D#u#l#l#f#l#d#d#p#e#v#l#E#r#g#e#l#r#u#k#h#r#r#j#|#E#r#g#o#  
 i#r#z#p#r#g#h#o#l#p#d#u#g#l#r#y#d#v#f#x#o#u#p#s#a#i#q#w#l#K#h#p#r#g#l#d#q#v#l#h#i#r#z#o#d#q#d#q#v#l#v#l#**Lecturer : Dr Low HT**

**ME4293 INTRODUCTION TO MICROELECTRONICS PACKAGING (M3 L2 TO.5 PO E2)**

Iqurqxfwlrq#l#g#g#R#y#h#y#l#z#h#e#i#p#|#f#u#r#h#d#f#w#r#q#l#f#v#s#d#f#n#d#j#l#j#h#p#|#f#u#r#h#d#f#w#r#q#l#f#v#s#d#f#n#d#j#l#j#h#p#d#w#h#u#d#o#l#g#g#  
 D#s#s#d#f#d#w#r#q#v#l#h#d#f#w#l#f#d#g#h#v#l#j#q#h#p#r#q#v#l#g#h#u#d#w#r#q#v#l#p#r#g#h#o#l#j#l#g#g#v#l#p#x#a#w#l#r#q#l#W#k#h#u#p#d#g#h#v#l#j#q#l#g#g#p#d#q#d#j#h#p#h#q#w#  
 r#i#h#d#f#w#r#q#l#f#v#l#p#h#f#k#d#q#l#f#d#g#h#v#l#j#q#h#p#r#q#v#l#g#h#u#d#w#r#q#v#l#s#u#r#f#h#v#l#j#j#h#h#f#k#q#r#r#j#l#h#v#l#q#h#p#|#f#u#r#h#d#f#w#r#q#l#f#s#d#f#n#d#j#l#j#l#  
 U#h#d#e#l#w#l#h#p#r#q#v#l#g#h#u#d#w#r#q#v#l#**Lecturers : Dr Ang S, Dr Tay AO**