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Mechanical Engineering

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Description of ME Modules - Matriculation Batch 2000 & 2001

ME1000 and ME1001 INDEPENDENT STUDY (M2 L0 T0 P3 CA)

Wkly#p rgxdn#p d|#frqvlv#ri#d#vhulhv#ri#derudwru|0edvhg#surnhfw#ru#rwkhu#dfdghp lf#suhvfulswirqv#iru#wkh# vwcghqwr#lqghshqghqw#vwcg|#lp rxqwlqj#wr#dssur{lp dwho|#98#rxuv#ri#z run#ryhu#rqh#ru#wz r#vhp hvwhuvl#Wkh# vxffhvvixd#frp sdnwirq#ri#d#CURS#surnhfw#p d|#frxqw#wrz dugv#wkh#vdwlvi|lqj#wkh#uhtxluhp hqw#ri#dq# lqghshqghqw#vwcg|#p rgxdn1

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

Gudz kj#wdqgdugv1# dfkkh#gudz kjj#Dvvhp ed #gudz kjj#Dgydqfhg#DG =#vrdg#p rghdqj/#vxuidfh#p rghdqj1# Lecturer : Dr Lee KS

ME1111 STRENGTH OF MATERIALS (M3 L2 T0.5 P0.5 E2)

Iqwrgxfwirq#wr#p hfkdqlfv#ri#ghirup dedn#rglhv1#rqfhsw#ri#vwuhvv#dqg#vwudlq1#Rqh0glp hqvlrqdd#v|vwhp v1# Vkhdu#irufh#dqg#ehqglqj#p rp hqwl#GhidhWrq#ri#aWhudad|#rdghg#v|p p hwulfddehdp v1#Vwuhvvhv#lq#aWhudad|# ardghg#v|p p hwulfddehdp v1#Vruvlrq1#Lecturers : Dr Lim CT, Dr Tay CJ

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

Iqwrgxfwlrq#wr#Ixlg#Phfkdqlfv#dqg#F@lvvlilfdwlrq#ri#Ixlg#dqg#Ixrz=#Uhd#dqg#ghdo#Qhzwrqldq#dqg#qrq0 Qhzwrqldq/#whdg|#dqg#qvwhdg|/#dplqdu#dqg#wuexdhqw/#qfrpsuhvvledh#dqg#frpsuhvvledh!#Ixlg#Vwdwlfv=# k|gurvwdwlf#irufhv#rq#vxephujhg#erghv/#exr|dqf|/#phwdfhqwlf#khljkw/#wdeldw|#ri#irdwlqj#erghv1# Sulqflsdhv#ri#Ixlg#Prwlrq=#ghilqlwlrq#ri#sdwkdqh/#wwldpdqh/#wuhdndqh#dqg#wiphdqh/#frqwlqxlw|/#Ehuqrxod# dqg#hqhuj|#htxdwlrqv/#Prphqwp#htxdwlrq#dqg#lw#dssdfdwlrqv/#htxldeukp#ri#prylqj#ixlg#+lq#wudqvadwlrq# dqg#urdwlrq,1

Icz#Phdvxuhphqw=#Slwrw0vwdwlf#wceh/#Vhqwculphwhu/#qr}}dn/#rulilfh#scalwh1#Glphqvlrqdd#Dqdd/vlv#dqg# Vlplowcgh=#Ud|dnljk*#phwkrg#dqg#Exfnlqjkdp*#sl#wkhruhp/#w|shv#ri#vlploduwhv#dqg#glwwrwhg#prghodqj1# Odplqdu#dqg#Wxwexdnqw#Slsh#Iczv=#Kdjhq0Srlvhxlobn#dz/#iulfwlrq#idfwru#dqg#xvh#ri#Prrg|*v#Ekduw/#crvvhv#q# slsh#ilwdgjv1#*Lecturers : Dr Khoo BC, Dr Lim TT*

ME1141 ELECTRICAL POWER AND MACHINES (M3 L2 T0.5 P0 E2)

SuhOuhtxlvlwh=#HJ4436

Glrghv#dqg#Wudqvlwcuv/#Srzhu#Vxssohv/#Vlqjdn#Skdvh#DF#V|vwhpv/#Skdvh#V|vwhpv/#Wudqviruphu/#GF# Prwcuv/#Wwhsshu#Prwcuv/#DF#Prwcuv/#Fkrlfh#ri#Prwcuv1#*Lecturers: Dr S Keerthi, Dr Teo CL*

ME2101 DESIGN PROCESS AND APPLICATIONS (M4 L3 T1 P0 CA)

SuhOuhtxlvlwh=#PH4444

Ghvljq#surfhvv1#Shvljq#rqvlghudwlrqv1#Shvljq#iru#wdwlf#wuhqjwk1#Shvljq#iru#idwljxh#wuhqjwk/#Iqjlqhhulqj# p dwhuldo#dqg#wkhl#whdnfwlrq1#P dqxidfwculqj#wrdhudqfh1#Shvljq#ri#p dfklqh#hdnp hqw1#Mrlqw1#Sulp h#p ryhuv1# Lecturers : Dr Chau FS, Dr Lai MO

ME2111 MECHANICS OF MATERIALS (M3 L2 T0.5 P0.5 E2)

SuhOuhtxlvlwh=#PH4444

Wz r0glp hqvlrqdd#/|whp v1# rp elqhg#/whvvhv1#Iqhuj | 換 hwkrgv1# roxp qv1#I{shulp hqwdd#/whvv#dqdo|vlv1# Iqhodvwlf#ehkdylru1#*Lecturers : Dr Cheng L, Dr Tay CJ*

ME2112 THEORY OF MECHANISMS (M3 L2 T0.5 P0.5 E2)

Dqdo vb#ri#p hfkdqlwp v1拒dødqfh#ri#p dfklqhu| 1抑 hdu#wdlqv1抑 lp soh#kuhh0glp hqvlrqd#g | qdp lfv#ri#ulj lg# erglhv1抑 leudwlrq#ri#p dfklqhu| 1#*Lecturers : Dr Chew CH, Dr Lim KM*

ME 2121 ENGINEERING THERMODYNAMICS (M3 L2 T0.5 P0.5 E2)

Suh0Uhtxlvlwh=#HJ4438

Uhylnz #ri#Luw#Odz #Jqg#Ww#Osoffdwirqv1#Wkh#Vhfrqg#Odz #ri#Wkhup rg|qdp lfv1#Uhyhuvledn#Jqg#Luhyhuvledn# surfhvvhv1#Iqwurs|1#Qrq0iarz #Jqg#iarz #surfhvvhv#Jqg#[|fdhv#Qrqvlgj#hqwurs|#Ekdqjhv1#Srz hu#Jqg# uhiljhudwirq#Jqg#Jlu#|fdhv1#ghd#jdv#p l{wwuhv/#sv|fkurp hwu|#Jqg#Osodfdwirqv1#Ixhav1#Frp exvwirq#Jqg#Ilwv# Odz #Jssdhg#wr#frp exvwirq1#Lecturers : Dr Ho JC, Dr Yap C

ME 2122 HEAT TRANSFER (M3 L2 T0.5 PO E2)

SuhOUhtxlvlwh=#HJ4438

Vwhdg|/#rqh0glp hqvlrqdd#dqg#wz r0glp hqvlrqdd#khdw#frqgxfwlrq1#X qvwhdg|#khdw#frqgxfwlrq1#Oxp shg#v|vwhp #

dqdo|vlrHH{whqghg#xuidfhv1#K|gurg|qdplf#lqg#wkhupdd#rxqgdu|#wl|huv1#Odplqd#kuexdnqv#irufhg# frqyhfwirq1#Uh|qr@yv#lqdarj|1#Uhh#frqyhfwirq1#Khdw#h{fkdqjhuv1#codfn#lqg#jud|#erg|#udgldwirq1#Udgldwirq# ehwzhhq#gliixvh#vxuidfhv1#*Lecturers : Dr Ezra E, Dr Lee SG*

ME2133 FLUID MECHANICS II (M4 L2.5 T1 P0.5 E3)

Suh0uhtx1v1wh=#PH4464

K |gudxdf#sxp sv=#d{ld#dqg#p l{hg#iarz #sxp sv#dqg#Erp suhvvruv/#vlp koluw|#dz v/#vshflilf#vshhg/#fdykdwlrq/# shuirup dqfh#fkdudfwhulvwlfv1#K |gudxdf#wcuelqhv=#w|shv#ri#wcuelqh/#shuirup dqfh#fkdudfwhulvwlfv1#

Ighd#icz =#wwhdp #ixqfwirq/#srwhqwid#ixqfwirq1#Flufxdwirq1#Fruwiflw| 1#Nhylq*v#wkhruhp 1#Vrxufh#idqg#vlqnv1# Irufhg#idqg#uhh#yruwifhv1#Vruwh{#grxednw1#Icz #sdvw#vlp sch#erglnv1#Phwkrg#ri#p djhv1#Vbfrxv#icz =#Qdylhu0 Vwrnhv#htxdwirqv1#Vcz /#dp lqdu/#kqvwhdg|#icz 1#Oxeulfdwirq#wkhru|#idqg#Uh|qr@yv#ntxdwirq1#Erxqgdu|#d|hu# htxdwirqv1#Vrq#Ndup dq#ntxdwirq1#Ecdxvkv#vrcwwirq1#Wxuexchqw#icz #htxdwirqv1#Uh|qr@yv#wuhvvhv1#WxuexchqfP p rghcy1#Srz hu#Odz 1#Lecturers : Dr Thoroddsen S, Dr Winoto SH

ME2141 APPLIED ELECTRONICS AND INSTRUMENTATION (M3 L2 T0.5 P0.5 E2)

SuhOUhtxlvlwh=#HJ4436

Wkh#Jhqhudal}hg#Phdvxuhphqw#V|vwhp/#Wudqvgxfhuv/#Eulgjhv#dqg#Wkhlu#Dssafdwirqv/#Rshudwirqda#Dpsdilhuv# dqg#Dssafdwirqv/#Vjqd#Frqglwirqlqj/#3ljlwda#Iahfwurqlfv1#Lecturer : Dr Teo CL

ME2142 FEEDBACK CONTROL SYSTEMS (M3 L2 T0.5 P0.5 E2)

Suh0Uhtxlvlwh=#HJ4735

Jhqhudd#gwrgxfwirqtwrtDxwrp dwiffFrqwrg/fUhylnz #rifPdwkhp dwifdd#dfnjurxqg/#Pdwkhp dwifdd# rghd#rif Sk |vifdd#V|vwhp v/#WudqvlhqwfUhvsrqvh#Dqdo|viv/#V|vwhp #VwdebW|#dqg#Vwhdg|#Vwdwh#kdudfwhulvwifv/# Iuhtxhqf|#Uhvsrqvh#Dqdo|viv/#Frqwrd#V|vwhp #Shvljq1#Lecturer : Dr Ong CJ

ME2151 FUNDAMENTALS OF MATERIALS ENGINEERING (M3 L2 T0.5 P0 E2)

Fødvvlifdwirq#i#p dwhuldø1#Dwrp lf#wuxfwxuh#dqg#erqglqj1#3liixvlrq1#Skdvh#utxlæuld1#Hqjlqhhulqj#surshuwhv: Ghirup dwirq#dqg#wuhqjwkhqlqj#p hfkdqlvp v1#{{gdwirq#dqg#fruurvlrq1#Lecturer : Dr Lim C

ME 2162 MATERIALS PROCESSING (M3 L2 T0.5 P0.5 E2)

Fxwilgj #wrate dwhuldor1#V lgjdn#dqg#p xod0srlgw#wror1#W | shv#ri#z hdu1#P dqxidfwxulgj #surfhvvhv=#frog#dqg#krw# z runlgj /#rodqj /#n {wxvlrq/#irujrlgj/#vkhhw#dqg#p hwdate odqnlgj#dqg#irup lgj/#frog#irup lgj/#z hoglgj/#eud}lgj# vroghulqj /#fdvwlgj/#srz ghute hwdoxuj | /#solvwlfv#whfkqrorj | 1#Qrq0frqyhqwlrqdate dfklglgj=#nohfwur0glvfkdujh# p dfklglgj 1#*Lecturers : Dr Rahman, Dr KH Seah*

ME 2491 ENGINEERING MATHEMATICS I (M3 L2 T0.5 PO E2)

SuhOuhtxlvlwh=#HJ4735

Sduviddy liihuhqwiddhtxdwirqv1#V wdwibwifddy hwkrgv=#suredeldw| #wkhru| /#glwwlexwirqv#ri#rp p rq#glvfuhwh#dq# frqwiqxrxv#yduidednv/#fhqwuddwip lw#wkhruhp /#vdp sdqj/#whvwiqj#ri#k|srwkhvlv1#Odsolfh#wudqvirup dwirq1# Frp sdn{#yduidednv1#*Lecturers : Dr Leng G, Dr Quan C*

ME2492 ENGINEERING MATHEMATICS II (M3 L2 T0.5 PO E2)

SuhOuhtxlvlwh=#HJ4735

Yhfwru#gliihuhqwld#Eddfxxv#dqg#yhfwru#ilhgyvl#Olqh#dqg#yxuidfh#lqwhjudxvl#Glyhujhqfh#wkhruhp 1#Vwrnhv# wkhruhp 1#Qxp hulfdd#yrxwirq#ri#ruglqdu|#gliihuhqwld#htxdwirqv=#ilwv#rughu/#rljkhu#rughu/#vlp xowdqhrxv# htxdwirqv/#lqlwld#ldgf#rxqgdu|#ydxh#surednp v1#Lecturers: Dr Lim KM, Dr Tan V

ME3101 MECHANICAL SYSTEMS DESIGN (M5 L1 T1 P3 CA)

SuhOuhtxlvlwh=#PH5434 Phfkdqlvpvl#Wvh#ri#ghvljq#frghvl#qwurgxfwlrq#wr#frpsxwhu#dlghg#ghvljq1#Surmhfwl#Lecturer: Dr Fuh J

ME3211 MECHANICS OF SOLIDS (M3 L2 T0.5 P0 E2)

SuhOuhtxlvlwh=#PH5444

Olghduthadvwlflw|1#Xqv|pphwlfdthqglqjtriteithdpvl#Wklfnzdangtf|dqghuvl#Vwhvvhv#Qthrwdwlqjtphphphphpehuvl# Wruvlrqtritsulvpdwlfthduvtritgrq0flufxadutfurvv0vhfwlrq1#Ehqglqjtritflufxadutsadwhv1#Hadvwrsadvwlfthdqdvlv1# H{shulphqwdtvwuhvvttlqddvlv1#Lecturers: Dr Dr Tay TE, Dr Toh SL

ME 3221 ENERGY CONVERSION PROCESSES (M3 L2 T0.5 P0 E2)

Suh0Uhtx1v1wh=#PH#5454

Hilf hqf | #p suryhp hqw#ri#whdp #srz hu# | fdnv#wkurxjk#wkh#xvh#ri#whjhqhudwlrq#dqg#elqdu | #ixlgv#surfhvvhv1# Dydlaledn#nqhuj | #dqg#dydlaledn#nqhuj | #kdqjhv#lg#wkhup dd#surfhvvhv/#Vhfrqg#Odz #hilf lnqf | 1# rp exvwlrq# surfhvvhv1#Dqdq vlw#ri#nqhuj | #dqg#z run#qwhudfwlrqv#ri#edvlf#p hfkdqlfdd#nqjlqhhulqj#wkhup dd#surfhvvhv#xfk wkrvh#ri#whflsurfdwlqj#dqg#fhqwulixjdd#frp suhvvruv#dqg#d{ldd#arz #wcuelqhv1#Lecturers : Dr Chua E, Dr Hawlader, Dr Ho JC

ME3231 COMPRESSIBLE AND UNSTEADY FLOW (M3 L2 T0.5 P0 E2)

SuhOuhtxlvlwh=#PH4464

Frp suhvvledn#icz =#vxevrqlf#dqg#vxshuvrqlf#icz /#frqyhuj lqj #0#g lyhuj lqj #0r}}dv/#SudqgwOP h | hu#icz v/#

Idqqr#Dqh/#Ud | dnljk#Dqh/#cqh#dqg#p xodDg1p hqvlrqd#icz v/#kkq#dluirlor#lq#vxshuvrqlf#icz /#p hwkrg#ri# fkdudfwhulwlfv/#p hdvxuhp hqw#ri#suhvvxuh/#hp shudwxuh#dqg#yhcrflw| 1#Xqvwhdg | #icz #lq#lqgxvwuld#icxlg# v | vwhp =#dqdq| vlr#ri#suhvvxuh#vxuj hv/#hodvwlf#slsh#wkhru| /#qxp hulfd#vrcwlrq/#p hwkrg#ri#fkdudfwhulwlfv1# Wudqvlhqw#fdxvhg#e | #rshudwlrq#ri#icg#p dfklqhu| 1#Y dulrxv#p hwkrgv#ri#frqwrodqj#suhvvxuh#vxuj hv#lq# lqgxvwuld#icxlg#v | vwhp 1#Lecturers : Dr Lee TS, Dr Lim TT

ME3241 MICROPROCESSOR AND MICROCOMPUTER APPLICATIONS (M3 L2 T0.5 P0 E2)

Frouhtxlvlwh=#PH5474

Qxp ehulqj#V|vwhp #Dqg#Frghv/#P lfursurfhvvru#Dufklwhfwcuh/#Dvvhp ed/#Ddqjxdjh/#qsxw2Rxwsxw/# P lfurfrp sxwhu/#Dssafdwirqv#q#iqjlqhhulqjl#*Lecturer : Dr Hong GS*

ME3242 INDUSTRIAL AUTOMATION (M3 L2 T0.5 P0 E2)

FrOuhtxlvlwh=#PH5474

Uhylnz #ri#Errdndq#Dojheud/#Vz lwfklqj#Hdnp hqw/#Ghvljq#ri#Vhtxhqwldd#Frqwurd#V|vwhp v/#Sqhxp dwf#Flufxlwv/# V|vwhp v#z lwk#udqgrp #qsxw/#Surjudp p dedn#Orjff#Frqwurd>uv#dqg#SF#Edvhg#Vhtxhqfh#Frqwurd#Lecturers : Dr Hong GS, Dr Poo AN

ME3251 MATERIALS FOR ENGINEERS (M3 L2 T0.5 P0 E2)

SuhOuhtxlvlwh=#HJ4439

Frqvlghudwlrqv#lq#qjlqhhulqj#ghvljq#ghvljq#iru#glp hqvlrqd#vwdeldw|2dffxudf|/#ghvljq#ljdlqvw#iudfwcuh# idlxuh/#rwkhu#dvshfw#lq#ghvljq/#fdvh#vwcglhv,>#p hwdov#dqg#dom|v#-ihurxv#dqg#qrq0ihurxv#dom|v/#vxuidfh# whdwp hqw#lqg#frdwlqjv/#rlqlj#ri#p hwdov/#fdvh#vwcglhv,/#nqjlqhhulqj#fhudp lfv#dgydqfhv# vwxfwcud&hqjlqhhulqj#fhudp lfv/#wrxjkhqlqj#p hfkdqlyp v/#dssdfdwlrqv#dqg#fdvh#vwcglhv,/#srdp huv#+uhylhz # ri#srdp hu#w|shv/#vwxfwcuh0surshuw|#hadwlrqvklsv/#surfhvvlqj/#fdvh#vwcglhv,/#srdp hulf#p dwul{#frp srvlwhv# +w|shv#dqg#surshuwlhv#ri#ilehu#uhlqirufhg#frp srvlwhv/#dbp ldwhg#frp srvlwhv/#dssdfdwlrqv#dqg#fdvh# vwcglhv,>ghvljq#dqg#p dwhuldo#whdhfwirq#surfhvv#ri#ghvljq#dqg#p dwhuld#vhdhfwirq/#hfrqrp lf#dvshfw#fq# p dwhuld#vhdhfwirq/#fdvh#vwcglhv,1#*Lecturer : Dr Lim LC*

ME3261 PRINCIPLES OF CAD/CAM (M3 L2 T0.5 P0 E2)

FDG = 却 hrp hwlf #P rgh o Ag / #F xuyhv / #V xuid fhv / #V rdg #p rgh dq j #F DP = #I deulf dwirq #r i#S du #e | #P QF #P dfk lq lq j # edvhg #rq #J hrp hwlf #P rgh o #E dv lf v #r u # QF #W xuq lq j #dq g #P lodg j / #W rr o #s dwk #j hq hud wirq #u f# DG 2F DP > #F DP = # Yhulif dwirq #r i #r deulf dwing #S du #e | #P QF #P hd v xuhp hq #e dv hg #rq #J hrp hwlf #P rgh o / #J hrp hwlf #B lp hq v irq lq j # dqg #W r du dq flq j #E dv lf v #r i #F QF #P hd v xuhp hq #e dv hg #rg #J hrp hwlf #F gh o / #J hrp hwlf #B lp hq v irq lg j # Gqg #W r du dq flq j #E dv lf v #r i #F rp s xwhu 0 dx wrp dwing #P hd v xuhp hq w #F QF #S ur mh f w= #I deulf dwirq #r i #p dwilq j #s du w #e | # F QF #p df k lq lq j #z lwk #p hd v xuhp hq w #e | #F P P / #F QF #W xuq lq j 2P lodg j / #F P P i #Lecturers : Dr Wong YS, Dr Zhang YF

ME3262 INDUSTRIAL METROLOGY (M3 L2 T0.5 P0 E2)

Sklarvrsk | #ri#p hdvxuhp hqwu#Vshfli | lgj #uhtxluhp hqwu#Edvlf#p hfkdqEdd#p hdvxuhgj#Qrwwxp hqw#dqg#cafn# jdxjhvl#J #3 # W/#Dlqhdu#dqg#dqjx@u#p hdvxuhp hqwu#P hdvxuhp hqw#ri#i@uqhvv/#urxqgqhvv#dqg#vxuidfh# ilqlvk1#Iqwhuihurp hwu / #@vhu#Iqwhuihurp hwhu#dqg#dssdfdwIrqv1#Iq0surfhvv#p hdvxuhp hqw#dqg#dxwrp dwhg# lqvshfwIrq1#Frrug1qdwh#p hdvxulgj #p dfklgh#FPP, 1#Lecturers : Dr Lim HS, Dr Mannan

ME3263 DESIGN FOR MANUFACTURING AND ASSEMBLY (M3 L2 T0.5 P0 E2)

lqwrgxfwlrq/#Vhdnfwlrq#ri#p dwhuldov#dqg#surfhvvhv/#Surgxfw#ghvljq#iru#p dqxd#dvvhp eo|/#Ghvljq#iru# dxwrp dwlf#dvvhp eo|#dqg#urerwlf#dvvhp eo|/#Ghvljq#iru#p dfklqlqj/#Ghvljq#iru#udslg#surwrw|slqj#dqg#wrdqj/# Ghvljq#iru#qmlfwlrq#p rxcglqj1#*Lecturers : Dr Fuh J, Dr Kumar, Dr Lee KS*

ME3291 NUMERICAL METHODS IN ENGIEERING (M3 L2 T0.5 P0 E2)

Suh0uhtx1v1wh=#HJ4734/#HJ4735

Qxp hulfdddqdqvb#mrw#ri#ntxdwirqv/#txuyh#ilwiqj#dqg#qxp hulfddfqwhjudwirq1#riqlwh#jliihuhqfh#p hwkrg#iru# sduwiddgliihuhqw#ntxdwirqv1#Z hljkwhg#uhvigxdddqgq#p hwkrgv1#riqlwh#hdnp hqw#p hwkrg#dssdfdwirq#wr#rqh0 glp hqvirqdd#surednp v1#*Lecturers : Dr Khoo BC, Dr Tay AO*

ME4101 BACHELOR OF ENGINEERING DISSERTATON (M8 LO TO P10 CA)

SuhOuhtxlvlwh=#rp sohwh#dw#bhdvw#433#PF#ri#ghjuhh#uhtxluhp hqwv Wklv#p rgxoh#frqvlww#ri#d#uhvhdufkOedvhg#surmhfw#xqghu#wkh#vxshuylvlrq#ri#rqh#ru#p ruh#dfdghp lf#vwdii# p hp ehuvl#u#Lv#pup dod|#wdnhq#ryhu#wz r#frqvhfxwlyh#vhp hvwhuvl#

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

FrOuhtxlvlwh=#PH6434

Wklv#Wrd#jurxs0edvhg#surmhfw#wkdw#irfxvhv#rg#wkh#ghvljq#ri#frpsdnvh#phfkdqlfdd#v|vwhpvl#fiihfwlyh#jurxs# g|qdplfv#dqg#v|vwhp#fqwhjudwlrq#zrun#duh#nh|#renhfwlyhv#ri#wklv#prgxdn1#*Lecturer : Dr Zhang YF*

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

Wk byłp rgxon#byłgholjąng#wr#blqn#wdii#bhohdufk#wr#whdfk lgj#lg#wkh#whohfwhg#duhdv#ri#vshflad}dwirg#riihuhg#e|# wkh#3 hsduwp hqwl#wkh#p rgxon#frp subho#d#wwxfwcuhg#surjudp p h#ri#vhp lqduv/#whup #sdshuv/#dqg#p lq10 surmhfwr#eh#j lyhq#e|#d#jurxs#ri#vwdii#p hp ehu#edvhg#rq#wkhlu#fxuuhqw#uhvhdufk#lqwhuhvww#lq#wkh# vshflad}dwirg#duhd1#Wkh#surjudp p h#frqwhqw#gliihuv#iru#gliihuhqw#vshflad}dwirg#duhdv1

ME4211 APPLIED MECHANICS (M3 L2 T0.5 P0 E2)

SuhOuhtxlvlwh##PH5444

Vp dæghidnfwirq#ri#wklq#s@whvl#Ehdp v#rq#h@vwlf#irxqgdwirq1#Wkhru|#ri#wklq#vkh@v1#Iqvwdeldw|1#Iqwurgxfwirq# wr#p hfkdq1fv#ri#frp srvlwh#p dwhuldov1#*Lecturers : Dr Tay TE, Dr Toh SL*

ME4212 MECHANICS OF THIN-WALLED STRUCTURES (M3 L2 T0.5 P0 E2)

Suh0uhtx1v1wh=#PH5444

Sulqflsdnv#ri#wuhvvhg#mlq#frqvwuxfwlrq1#Wklq0zdodng#wwuxfwcuhv1#Wzlwwlqj#ri#wklq#vkhoov1#Wdshuhg#wwuxfwcuhv1# Wruvlrq#ri#whfwlrqv1#qvwdeldw|#niihfwr#q#wwuxfwcuhv1#*Lecturers : Dr Lin KY, Dr Tan V*

ME4213 VIBRATION THEORY AND APPLICATIONS (M3 L2 T0.5 P0 E2)

Iqwurgxfwlrq#ri#vlp sdn#yleudwlqj#v|vwhp 1#P xowlOghjuhh#ri#iuhhgrp #v|vwhp v1#Odjudqjh*v#htxdwlrq1#Frqwlqxrxv# v|vwhp v1#Dssur{lp dwlrq#p hwkrgv1#qvwuxp hqwdwlrq#iru#yleudwlrq#p hdvxuhp hqw1#Lecturers : Dr Lim SP, Dr Liu GR

ME 4223 THERMAL ENVIRONMENTAL ENGINEERING (M3 L2 T0.5 P0 E2)

Suh0Uhtxlvlwh=#PH#5454/#PH#5455

Khdw#jdlqv#wkurxjk#exlgdj#hqyhorshvl#Frrdqj#ordg#fddfxodwlrqvl#Sv|fkurp hwulfvl#Dlu#frqglwdrqlgj#ghvljq# fddfxodwlrqvl#Dlu#frqglwdrqlgj#v|vwhp vl#Dlu#frqglwdrqlgj#sodqw#dqg#txlsp hqwl#Dlu#frqglwdrqlgj#frqwurov/# Hqhuj|#vdylqjv#fqHdlu#frqglwdrqlgj1#*Lecturers : Dr Wijeysundera, Dr Yap C*

ME 4225 INDUSTRIAL HEAT TRANSFER (M3 L2 T0.5 P0 E2)

Suh0Uhtx1v1wh=#PH#5455

Dssdfdwirq#ri#edvlf#khdw#wdqvihu#p rghv#vxfk#dv#frqgxfwirq#dqg#frqyhfwirq#dq#kh1#ydoxdwirq#dqg# shuirup dqfh#ri#qgxvwld#khup d#surfhvvhv#vxfk#dv#frrdqj#ri#hohfwurqlf#frp srqhqw#dqg#sdfndjhv/#erldqj# dqg#hydsrudwirq/#p dvv#wdqvihu/#dqg#khdw#wdqvihu#hqkdqfhp hqwl#Lecturer : Dr Wijeysundera

ME 4226 ENERGY & THERMAL SYSTEMS ANALYSIS (M3 L2 T0.5 P0 E2)

Suh0uhtx1v1wh=#2H5454/#2H5455

Sulqflsdn#ri#rshudwirq#dqg#edvlf#shuirup dqfh#hydoxdwirq#ri#p hfkdqlfdd#khup dd#v|vwhp v#lq#frqyhqwirqdd#dqg# qhz 0whfkqrorj|#duhdv#vxfk#dv#devruswirq#frrdqj/#frqyhqwirqdd#dqg#frp sdfw#khdw#h{fkdqjhuv/#vwhdp #srz hu# sodqw/#frp elqh#f|fdn/#p lfur#jdv#wxuelqhv/#frjhqhudwirq#dqg#ixhd#fhav1#

ME4231 AERODYNAMICS AND PROPULSION (M3 L2 T0.5 P0 E2)

SuhOuhtxlvlwh=#PH5466

Fkdudfwhulwlfv#dqg#sdudp hwhuw#iru#dluirl#dqg#z lgj#dhurg|qdp lfv1#Wzr#glp hqvlrqdd#qfrp suhvvledn#iarz # durxqg#kklq#dluirlw1#qfrp suhvvledn#iarz #derxw#ilqlwh0vsdq#z lgjv1#Dhurg|qdp lf#ghvljq#frqvlghudwlrqv1# Frp suhvvledn#xevrqlf/#wdqvrqlf#dgg#xshuvrqlf#iarz v#durxqg#dluirlw1#Vxshuvrqlf#iarz #derxw#ilqlwh0vsdq# z lgjv1#Dlufudiw#sursxolrq1#Lecturers : Dr Chew YT, Dr Luo SC

ME4233 COMPUTATIONAL METHODS IN FLUID MECHANICS (M3 L2 T0.5 P0 E2)

SuhOuhtxlvlwh=#PH5466

Edvlf#khru|#ri#glvfuhwl}dwlrq1#Fødvvlilfdwlrq#ri#ntxdwlrqv1#Vrowlrq#p hwkrgv#iru#sduderdf#dqg#nødswlf# htxdwlrqv1#Vrowlrq#ri#Qdylhu0Vwrnhv#dqg#nqhuj | #ntxdwlrqv1#Lecturers : Dr Shu C, Dr Yeo KS

ME4234 EXPERIMENTAL METHODS IN FLUID MECHANICS (M3 L2 T0.5 P0 E2)

Suh0uhtx1v1wh=#PH4464

V þ blæghv#dqg#p rghædqj1#Z lqg#æqqhd#ghvljq1#P hdq#dqg#iæfwcdwlqj#yhæflw|#p hdvxuhp hqwl#P hdq#dqg# iæfwcdwlqj#suhvvxuh#p hdvxuhp hqwl#Vkhdu#wwhvv#p hdvxuhp hqwl#Z lqg#æqqhd#eæfndjh#fruuhfwlrq1#Hqg#sælwh# frqiljxudwlrqv1#Iæz #ybxdd}dwlrq1#V ljqdd#dqdo|vb=#gdwd#dftxblwlrq/#suredelabw|#wkhru|/#fruuhædwlrq#væg1hv/# vshfwadd#dqdo|vb1#Lecturers : Dr Luo SC, Dr Shah D

ME4243 COMPUTER VISION (M3 L2 T0.5 P0 E2)

SuhOuhtxlvlwh=#HJ4735

Iqwurgxfwlrq/掛dnp hqww#ri#G ljlwdd#p djh#Surfhvvlqj掛 |vwhp v/#G ljlwdd#p djh#Ixqgdp hqwdov/#p djh# Wudqvirup dwlrq#dqg掛qkdqfhp hqw/#p djh#Nhjp hqwdwlrq/#Uhsuhvhqwdwlrq/#Sdwwhuq#Uhfrjqlwlrq1#Lecturers : Dr Burdet E, Dr Lim KB

ME 4245 ROBOTICS (M3 L2 T0.5 P0 E2)

Suh0uhtx1v1wh=#HJ47352Fr0uhtx1v1wh=#PH5475

Iqwurgxfwlrq/#VsdwlddGhvfulswlrqv#dqg#Wudqvirup dwlrqv/#Pdqlsx@wru#Iruzdug#dqg#qyhuvh#Nlqhpdwlfv/# Phfkdqlfv#ri#Urerw#Prwlrq/#Urerw#G|qdplfv/#Vwdwlf#Irufhv#dqg#Wrutxhv/#Wudmhfwru|#S@lqqlqj/#Urerw#Frqwurd# *Lecturer : Dr Ang M*

ME4246 LINEAR SYSTEMS (M3 L2 T0.5 P0 E2)

Suh0uhtx1v1wh=#PH5475

Lqwrgxfwlrq₩r#Wwdwh0Vsdfh₽ rgho/₩ roxwlrq推进Wdwh0Vsdfh₽ rgho/₽dqrqlfd4Lrup v推进Wdwh0Vsdfh₽ rgho/ Frqwrccelaw| #dqg₽ evhuydelaw| /₩wdwh#Lhhgedfn#dqg₩ wdwh₽Vwlp dwlrq/#Dlqhdu把xdgudwlf₽ swlp dd₽ rqwro/# Vwdelaw| 1#Lecturers : Dr Ong CJ, Dr Subramanaim V

ME4247 INTRODUCTION TO FUZZY/NEURAL SYSTEMS (M3 L2 T0.5 PO E2)

Ix}}|#vhw#wkhru|1#Ix}}|#v|vwhpv1#qwurgxfwirq#wr#Ix}}|#frqwurd#Edvlf#frqfhswr#ri#qhxudd#qhwzrunv1#Vlqjdn# ad|hu#shufhswurqv1#Pxowlad|hu#shufhswurqv1#Vhai0rujdql}lqj#pdsv1#Lecturer : Dr Chew CM

ME4251 THERMAL ENGINEERING OF MATERIALS (M3 L2 T0.5 P0 E2)

SuhOuhtxlvlwh=#HJ4439

Wkhup rg|qdp lfv#dqg#hlqhwlfv#ri#dar|vl#Surshuw|#p rglilfdwlrq#surfhvvhv#lq#hqjlqhhulqj#p dwhuldav#dqg#wkhlu# dar|vl#Lxqgdp hqwdav#ri#skdvh#gldjudp v/#FFW#dqg#WWW#gldjudp v1#W|shv#ri#wkhup dd#wlhdwp hqwl#Jdslg# wkhup dd#surfhvvlqj1#Lecturers : Dr Lim C, Dr Lu L

ME4253 BIOMATERIALS ENGINEERING (M3 L2 T0.5 P0 E2)

SuhOuhtxlvlwh=#HJ4439

lqwrgxfwlrq1#E lrp hwdor1#E lrsro|p huv1#E lrfhudp lfv1#E lr#rp srvlwhv1#Surfhvvlgj#ri# lrp dwhuldor1#Whvwlgj#ri# e lrp dwhuldor1# rp sxwhu#d lghg#ghvljq#dqg#hqjlqhhulgj#lq#e lrp dwhuldor1#qwhodjhqw#e lrp dwhuldor#ri#wkh#ixwuh1# Lecturer : Dr Teoh SH

ME4254 MATERIALS IN ENGINEERING DESIGN (M3 L2 T0.5 P0 E2)

SuhOuhtxlvlwh=#HJ4439

Iqwrgxfwlrq#ri#nqjlqhhulqj#odwhuldor#Pdwhuldor#vhdnfwlrq#ru#zhljkw0fulwlfdd#dssdfdwlrqv1#Pdwhuldor#iru# vwliiqhvv#edvhg#ghvljqv1#Pdwhuldor#iru#vwhqjwk0edvhg#ghvljqv1#Pdwhuldor#iru#gdpdjh#wrdhudqw#ghvljqv1# Pdwhuldor#dqg#idwljxh0edvhg#ghvljqv1#Pdwhuldor#dqg#ghvljq#djdlqvw#fruurvlrq1#Pdwhuldor#iru#zhdu#fulwlfdd# dssdfdwlrqv1#Pdwhuldor#iru#elrphg1fd#dssdfdwlrqv1#3hvljq#ri#dar|v1#Lecturer: Dr Sinha SK

ME 4255 MATERIALS FAILURE (M3 L2 T0.5 PO E2)

SuhOuhtxlvlwh=#HJ4439

Iqwrgxfwrq#wr#idlxuh#ri#p dwhuldorl#VhuylEh#idlxuh#dqdo|vl#sudfwlEh1#Idlxuh#gxh#wr#ryhuordglqj1#Idlxuh#gxh# wr#|fdf#ordglqj1#Idlxuh#gxh#wr#ruurvlrq1#Idlxuh#gxh#wr#iulfwlrq#dqg#zhdul#Idlxuh#iw#hohydwhg# whp shudwuhv1#Idlxuh#ri#zh@#mrlqw1#qvshfwlrq#dqg#uhp dlqlqj#lih#suhglfwlrq#whfkqltxhv1#Fdvh#Vwsglhv1# *Lecturer : Dr Sinha SK*

ME4261 TOOL ENGINEERING (M3 L2 T0.5 P0 E2)

Fr0uhtx1v1wh=#PH5495

Mijv#dqg#il{wcuhv=#zrunkroglqj#dqg#cfdwlqj#sulqflsdnv/#folpslqj#ghylfhv/#ghvljq#i#ujv#dqg#il{wcuhv#iru# frqyhqwlrqdd#dqg#QF#pdfklqhv/#qvshfwlrq#uijv#dqg#il{wcuhvl#Ghvljq#ri#zwwlqj#wroz=#qrphqfodwcuh#ri# fxwlqj#wroz/#rswlpl}dwlrq#ri#wrd#vkdsh/#ghvljq#ihdwcuhv#ri#vlqjdn0srlqw#fxwwlqj#wroz/#frqyhqwlrqdd#guloz#dqg plodgj#fxwuhuz/#julqglqj#surfhvvhvl#*Lecturers : Dr Kumar, Dr Li XP*

ME4262 AUTOMATION IN MANUFACTURING (M3 L2 T0.5 PO E2)

FDG 2FDP =#ixqfwlrqv/#vhohfwlrq#fulwhuld/#qvwdodwlrq#surfhgxuhv1#Jurxs#whfkqrorj | =#frgkj#v| vwhp v/# dssdfdwlrqv/#ehqhilw1#Surfhvv#sodqqkj =#p dqxd&frp sxwhu0dlghg/#yduldqw2jhqhudwlyh#dssurdfkhv1#P V =# mxvwliffdwlrq/#revwdfdnv#dqg#sureonp v/#iah { leldw| #yhuvxv#rvwl#Dxwrp dwlf#dvvhp eq| =#ghvljq#iru#dxwrp dwlf dvvhp eq| /#sduw#rulhqwdwlrq/#ihhglqj#whfkqlrxhv1#Duwliffld#qwhodjhqfh#dssdfdwlrqv#q#p dqxidfwxulqj1#1 { hg# dqg#wdqvihu#dxwrp dwlrq=#iarz #sdwhuqv/#wdqvihu#p hfkdqlvp v/#exiihu#wwrdjh/#ghvljq#frqvlghudwlrqv1# Dxwrp dwlg#p dwhuldor#kdqgdqj#dqg#DVUV1#Ifrqrp lf#mxwliffdwlrq#ri#dxwrp dwhg#v| vwhp v1#Lecturers : Dr Lee KS, Dr Zhang YF

ME4273 ENGINEERING STATISTICS (M3 L2 T0.5 P0 E2)

Suh0uhtx1v1wh=#PH#57<4

Ixqqdp hqwddfrqfhsw#ri#hqjlqhhulqj#vwdwlwifv#dqg#vwdwlwifdd#dqdqvlv#dqg#u{shulp hqwdwlrq#whfkqlrxhv#iru# hqjlqhhuvl#Wrslfv#lqfagh#vwlp dwlrq#dqg#k|srwkhvlr#whvwlqj/#uhjuhvvlrq#dqdqvlv#dqdqvlv#dqdqvlv#i#yduldqfh/# idfwruld#h{shulp hqw#dqg#qrqsdudp hwlf#vwdwlvifv1#*Lecturers : Dr Keerthi S, Dr KH Seah*

ME4281 MICROSYSTEMS DESIGN AND APPLICATIONS (M3 L2 TO P1 CA)

Dq#lqwurgxfwlrq#wr#wkh#sulqflsdn/#ideulfdwlrq#dqg#v|vwhp 0dnyhd#ghvljq#dqg#dssdfdwlrqv#wr#p lfurv|vwhp v1#

ME4283 MICRO-FABRICATION PROCESSES (M3 L2 TO P1 E2)

lqwrgxfwrq=#fdsdeldwhv/#bp lwdwrqv/#wup lqrarj | /#p dwhuldor/#p dwhuldor#surshuwhv1#Exan#Surfhvvhv=#z hw# hwfklqj#ri#vldfrq1#Bvrwrslf#dqg#dqlvrwrslf#hwfklqj/#hdnfwrfkhp lfdd#p rgxadwlrq/#z hw#hwfklqj#ri#rwkhu# p dwhuldor/#ydsrxu0skdvh#hwfklqj/#salvp d#nwfklqj/#hdnfwrfkhp lfdd#p rgxadwlrq/#z hw#hwfklqj1#Yxuidfh# Surfhvvhv=#kklq0ibp #surfhvvhv/#qrq0p hwdor#dqg#p hwdor/#z hw#dqg#gu| #hwfklqj/#nydsrudwlrq/#xswwhu# ghsrvlwlrq/#ydsrxutghsrvlwlrq/#sdwhurglj1#Vdfulifbld#Surfhvvhv=#Uhdndvh#p hwkrgv/#wlfnlqj/#DJD/#VIPR [/# ydsrxu0skdvh#nwfklqj1#Salvp d#nwfklqj/#uhg salwh#nhsdfdwlrq/#fdylw| #irup dwlrq1#Erqglqj4Surfhvvhv=#dqrgff# erqglqj/#ixvlrq#erqglqj1#P1fur0p dfklqlj#edvhg#q#frqyhqwlrqdd#p dfklqlj#surfhvvhv=#b1fur0wcuqlj/# p lfur0p ladqj/#p1fur0julqglqj=#HOLG0julqglqj1#P1fur0p dfklqlj#edvhg#qrq0frqyhqwlrqdd#p dfklqlj# surfhvvhv=#b1fur0hdnfwrglvfkdujh#p dfklqlqj#o'HGP,/#p1fur0hdnfwrfkhp1fdd#p dfklqlqj#o'HFP,1#Vshfld# p dfklqlj=#fkhp1fdd#p1fdd#srdwklqj/#HPS,/#frpelqdwlrqt#ri#'HGP#z kwkmkhu#p1fur0p dfklqlj# surfhvvhv/#h1j1#'HGP#dqg#p1fur0p ladqj/#'HGP#dqg#p1fur0xowdvrq1f#pdfklqlqj/#'HGP#dqg#'HFP/#hwf1# *Lecturers : Dr Ang S, Dr Rahman, Dr Wong YS*

ME4284 MICRO SENSORS & MICRO ACTUATORS (M3 L2 T0.5 P0 E2)

Fryhuv#wkh#edvlf#sulqflsdnv#ehklqg#wkh#ydulrxv#w|shv#ri#plfurvhqvruv#dqg#plfurdfwxdwruv1

ME 4285 MODELLING AND SIMULATION IN MST (M3 L2 T0.5 PO CA)

Prgholqj#lqg#qxphulfd#vlpxodwirq#ri#wkh#ideulfdwirq#surfhvv#lqg#wkh#rshudwirq#ri#plfurghylfhv#lqg#hqwlh# lqwhjudwhg#plfurv|vwhpv#luh#ehfrplgj#lqglvshqvdedn#lq#wkh#ghyhorsphqw#ri#PHPV1#Frpsxwhu0dlghg#ghvljq# +FDG,#fdq#vljqlilfdqwo|#uhgxfh#wkh#qxpehu#ri#frvwo|#wuld#lqg#huuru#whsv#rq#wkh#zd|#wr#lq#rswipl}hg# surwrw|sh1

ME 4291 FINITE ELEMENT ANALYSIS (M3 L2 T0.5 PO E2)

SuhOuhtxlvlwh=#PH57<5

Iqwrgxfwrq1#I hog#suredny v1#Vwxfwcudddgg#vrdg#p hfkdq1fv#suredny v1#Sodwhv1#P hvk#phv1jq1#p rghodgj#1qg# yhulifdwirq1#qvwxfwirq#rq#cvh#ri#1#iq1wh#hdp hqw#vriwz duh#sdfndjh1#Lecturers : Dr Laulusaa, Dr Liu GR

ME4292 BIOENGINEERING (M3 L2 TO. 5 PO E2)

Suh0uhtx1v1wh=#PH4464/#PH5444

Kxp dq#afrp rwlrq1#Wlvvxh#elp hfkdqlfv1#Ruwkrsdhglf#p sodqw1#Duwlifidd#op ev1#earg#elrukhrarj | 1#earg0 iarz #p rghor1#duglrydvfxodu#p sodqw1#Khp rg1dq vlv#iarz 0dqdq vlv1#Lecturer : Dr Low HT

ME4293 INTRODUCTION TO MICROELECTRONICS PACKAGING (M3 L2 T0.5 P0 E2)

Iqwrgxfwrq#lqg# yhuy hz #ri# furhdnfwrqfr#Sdfndj lqj ## furhdnfwrqfr#Sdfndj lqj #o dwhuldo#lqg# Dssdfdwrqv1#IdnfwlfddE hvljq# rqvlghudwrqv1# rgholqj #lqg#V lp xodwrq1#Whup ddE hvljq#lqg# dqdjhp hqw# ri#Idnfwrqffv1# hfkdqffddE hvljq# rqvlghudwrqv1#surfhvvlqj #Whfkqrorj hv#lq# furhdnfwrqff#Sdfndj lqj 1# Uhdle ldw | # rqvlghudwrqv1#Lecturers : Dr Ang S, Dr Tay AO

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