

# **MECHANICAL ENGINEERING GRADUATE PROGRAM HANDBOOK**



P OG AM OF D

MA E ! DEG EE :! ( )%! -%5#416%,

" #\$% 3 & ' 10

" #\$% 4



MAJO P OFE O AND PE I O COMMEE O

!

C

.!!@&, +%70%, 121H!#22!\$4#-0#1%+10-%, 1+!, %- -!&!6 %%1!1 ) %!#80211H!- -%1%46 \*, %!1 ) %\*4!  
!\*%2-+! &!1\*, 1%4%+1H! #, -!+%%81! &, %! '#80211! 6 % 6 . %4! #+! #! 6 #&4! 54&%++&4! #, -!#- -\*1\*&, #?1  
'#80211! #+! +05%43\*+&4! 8&6 6 \*11%! 6 % 6 . %4+=! ! ( )%! 8&6 6 \*11%! 6 0+1! . %! #554&3%-! #, -!  
#55&\*, 1%-! . 1!1) %! >4#-0#1%! "4&\$4# 6! ; \*4%81&4=!! K&4! 1)%! 9 #+1%4!+! -%\$4%!! A\*1)! #!1) %+\*+!  
&51\*&, H!#! 6 #&4!54&%++&4!#, -!#A&8&6 6 \*11%! 6 % 6 . %4+!#4%!4%70\*4%-!=!!K&4!#! " )= ; =!- %\$4%H!  
#! 6 #&4!54&%++&4!#, -!#! 6 \*, \*606!&!&04!#- -\*1\*&, #?1 6 % 6 . %4+!#4%!4%70\*4%-H!&, %!&!A)\*8!  
6 0+1!. %! '4&6! #! -\*1%4%, 1!%, \$\*, %4\*, \$! -%5#416%, 1!#, -!&, %! '4&6! #, &1) %! 8&22%\$%=! ( )%!  
'&46#1\*&, !&!1) %!+05%43\*+&4! 8&6 6 \*11%! 6 0+1!. %!8&6 52%1%-!-04\*, \$!1) %!\*4+1!#8#- -%6 \*8!1%#4!  
&!1?10- I=!!K#\*204%!!&1!8&6 52!1A\*1) !1) \*+!4%70\*4%6%, 1!6 #!1!4%+021!\*, !1) %!2&++!&!1\*, #, 8\*#2!#\*-!=!  
?10-%, 1+!6 #!1!6#/%!8) #, \$%+!1&!1) %!+05%43\*+&4! 8&6 6 \*11%! 05!0, 1\*2!1) %!+%6 %+1%4!. %'4%!  
1) %!\$4#-0#1\*&, !+%6 %+1%4= !

!

NON-DEG EE EEKING DEN

!

?10-%, 1+!A) &!#4%!70#2\*1% -!&!%, 4&22!\*, !+5%8\*\*8!\$4#-0#1%!8&04%+!. 01!A) &!-&!, &1!\*, 1%, -!1&!A&4!/1&A#4-!#1\$4#-0#1%!-%\$4%!! 6 #!1%, 4&22!#+, &, E- %\$4%!!+%/\*, \$!+10-%, 1+=!! f &, E- %\$4%!!  
+10-%, 1+!6 #!1%, 1%4!8#++%+!&, !#!+5#8%E#3#\*2# . 2%!. #+\*+! -04\*, \$!1) %! '\*4+1!A%!/!&!%#8)!  
+%6 %+1%4!. 1! &. 1#\*, \*, \$!1) %! 8&, +%, 1! &!1) %! 8&04%!, +14081&4! #, -! >4#-0#1%! "4&\$4# 6!  
; \*4%81&4=!!?10-%, 1+!6 0+1!6 % 1!1) %!54%E4%70\*+\*1%+!&!8&04%+!\*, !A)\*8) !1) %!A\*+) !1&!, 4&22-!!  
N!6 #P\*6 0 6 !YT!) &04+!&!84% -\*1%#4, % -!#+!#, &, E- %\$4%!!+10-%, 1!6 #!1!. %!#552%-!1&!+#1+!1!  
9 ? 9 : ! -%\$4%!!4%70\*4%6%, 1+=! ?10-%, 1+!6 0+1!%#4, !#!\$4#- -%&!M!&4!. %11%4H!#, -!1) %!8&04%!  
6 0+1!. %!+0\*1# . 2%!'&4!1) %!54&\$4# 6 =!!( ) \*+!4#8/!'&4!, 1%4\*, \$!\$4#-0#1%!+10- !!) #+!. %%, !&0, -!  
%+5%8#2!!) %25'02!1&!+10-%, 1+!\*, !

## MA E DEG EE!

!

! M%'&%!\$4#-0#1\*, \$H!1) %! 9 ? 9 : !A\*1) !1) %+\*+!14#8/!+10-% , 1+!6 0+!54%5#4%#1) %+\*+!# , -!  
54%+%, 1!\*1!1&!1) %! ?05%43\*+&4!@&6 6 \*11%=%! ( ) %!+10-% , 1! 6 0+!54%+%, 1!#1!5%-!\*, #? -  
-4#1!1&!1) %! ?05%43\*+&4!@&6 6 \*11%=%# , -! >4#-0#1% N-3\*+&4! & , %! A%/%/! . %'&4%1) %!  
\*, #?&4#2!%P#6\*, #1\*&, =!

!

! 9 ? 9 : !A\*1) &01!1) %+\*+!14#8/!+10-% , 1+!6 0+!1+0 . 6 \*!1A&!54&%81!4%5&41+!8&6 52%1%-!#+!  
5#4!&!1) %! : 9 [ !8&04+A&4/!4%70\*4%6% , 1!1&!1) %! >4#-0#1% " 4&\$4#6! ; \*4%81&4!-04\* , \$!  
1) %!+%6%+1%4!&!\$4#-0#1\*& , !'&4!3#2#0#1\*& , !# , -!#++%++6% , 1!K#\*2\* , \$!1&!4%+5& , -!1&!#!  
4%70%+1!A\*2!54%3% , 1!+10-% , 1!'+4&6 !\$4#-0#1\* , \$!=

!

! N22!A&4/!#552\*8#. 2%!1&!1) %! 9 #+1%4!+!-\$4%4%70\*4%6% , 1+!6 0+1!. %!8&6 52%1%-!A\*1)\* , !  
'\*3%!1%#4+!'4&6!1) %!1\*6%!1) %!+10-% , 1!'+!\*4+1!#-6 \*11%-!\*, 1&!)\*+D) %4!54&\$4#6=!!

!

## P .D. DEG EE!

!

! ?10-% , 1+!6 0+1!. %!#-6 \*11%-!1&8# , -\*-#8!1. %'&4%1) %!1!4%\$\*+1%4!&4!-\*++%41#1\*& , !)&04+=!  
?%%1) %!W?K! >4#-0#1% @#1#2&\$!&4!4%70\*4%6% , 1+!'&4!#-6 \*++\*& , !1&8# , -\*-#8!=!

!

! ( ) %!+10-% , 1! 6 0+!8& , -081!# , !\* , 3%+1#\$#1\*& , !4%+O21\* , \$!\* , !# , !4\*\$\* , #2!# , -!+\*\$ , \*!\*8# , !1  
8& , 14\*. 01\*& , !1&!1) %!/ , &A2%- \$%!\* , !1) %!8) &+, !'\*%2-!&!4%+ %#48)=!!?10-% , 1+!\* , !1) %!" )= ; =!  
54&\$4#6!6 0+1!#/%!#!6\* , \*6 0 6 !&!ZR!) &04+!&!- &81&4#?-\*++%41#1\*& , !84%-\*1+=!

!

! L , 8%!#-6 \*11%-!1&8# , -\*-#8!1!+10-% , 1+!6 0+1!, 4&22!'&4!#!6\* , \*6 0 6 !&!Z!84%-\*1) &04+!  
%#8) !+%6%+1%4!&!1) %!#8#-%6 \*8!1%#4!0 , 1!2!8&6 52%1\*& , !&!1) %!54&\$4#6=!

!

! M%'&%!\$4#-0#1\*, \$H!1) %! " )= ; =!+10-% , 1+!6 0+!54%5#4%#1! -\*++%41#1\*& , !# , -!54%+%, 1!\*1  
1&!1) %! ?05%43\*+&4!@&6 6 \*11%=%! ( ) %!+10-% , 1! 6 0+!54%+%, 1!#1!5%-!\*, #? -4#1!1&!1) %!  
?05%43\*+&4!@&6 6 \*11%=%# , -! >4#-0#1% N-3\*+&4!1A&! A%/%/! . %'&4%1) %! '\* , #? &4#?  
%P#6\*, #1\*&, =!

!

! N22!A&4/!#552\*8#. 2%!1&!1) %! " )= ; =! 4%70\*4%6% , 1+!6 0+1!. %!8&6 52%1%-!A\*1)\* , !+%3% , !  
1%#4+!'4&6!1) %!1\*6%!1) %!+10-% , 1!'+!\*4+1!#-6 \*11%-!\*, 1&!)\*+D) %4!54&\$4#6=!

## MECHANICAL ENGINEERING FACULTY AND AEA OF SPECIALIZATION

D !B"4&%++&4D@ )#\*4F! " )= ; =C!@2%6+&, !W , \*3%4+\*1IH!Y] ` X\!O%) # . \*2\*1#1\*&, !O&. &1\*8+! " 4&+1) %1\*8+!Q , -!L41) &1\*8+!Q , #6\*8! ? I+1%6+!# , -!@&, 14&2+! -0.%1h0+'=%-0!

!

N D -E ! BN++\*+1# , 1! " 4&%++&4F! " )= ; =C! W , \*3%4+\*1! &! @#2\*!&4 , \*#H! M%4 /%2%IH! ZRYQ! 9# , 0' #8104\* , \$H! ? 6 #41! # , -! ? 0+1#\* , #. 2%! ? I+1%6+H! ; #1#E ; 4\*3% , ! 9 &-%2\* , \$! . # , 8I -Y h 0+'=%Q!!

!

J G BG , +14081&4!GGF! " )= ; =C! d\*4\$\* , \*#! (%8) H! ZRYY! J06# , EO& . &1! @&2# . &4#1\*3% ! ? I+1%6+H! @&EO& . &1\*8+! (%8) , &2&\$! ! '4! f & , E( #\*-1\*& , #2! " &50#1\*& , +H! ? ( : 9 ! : -08#1\*& , H! ? % , +&4! " %48%51\*& , ! \$#\*,Q+<h0+'=%-0!

!

N G ! BN++&8#1%! " 4&%++&4F! " )= ; =C! >%&4\$\*#! G , +1\*101%! &! (%8) , &2&\$! H! ZRRS! M\*& Q#1%4\*#2+!#Q- ! ( Q+Q%! : , \$\* , %%4\* , \$! , \$#2# , 1h0+'=%-0!

!

M G ! BG , +14081&4!GF! " )= ; =C! M&+1& , !W , \*3%4+\*1H!ZRY` \! f # , +&Q#2%! J%#Q( 4# , +'Q4!# , -! ? &\*-!9%8 )# , \*8+! 6\$& , \*4&-4\*\$&h0+'=%-0!

!

D P. H ! B"4&%++&4F! " )= ; =C!

o

F P , III! BG , +14081&4!

" #\$% 9 & ' 10

IMPO AN CON AC FO G AD A E DEN

!

>ON;WN( :!N; 9G??GLf?!! ! ! ! ! Gf (:OfN(GLfN[!?:OdG@:?!<