G.H. RAISONI COLLEGE OF ENGINEERING, NAGPUR.
(An Autonomous Institution under UGC Act, 1956)
C.R.P.F. Gate No. 3, Hingna Road, Digdoh Hills, Nagpur, Maharashtra 440 016 (India)

No. GHRCE/Autonomy/ACAD/Absorption-Mechanical/2011-12/410 Date: 18/05/2012

NOTIFICATION

It is notified for general information of all the concerned that the **B.E. in Mechanical Engineering and M-Tech. in CAD/CAM and Heat Power Engineering** students who were admitted in this College prior to grant of Autonomy and pursuing the course as per Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur scheme and could not clear the subjects of the above said courses as per R.T.M. Nagpur University, Nagpur scheme within the given point of time limit as stated in our earlier **Notification No. GHRCE/Autonomy/ ACAD/2010-2011/176 Dated 25/09/2010** and further stated below in **Para 1 shall then be absorbed** in the new B.E. in Mechanical Engineering and M-Tech. in CAD/CAM and Heat Power Engineering course as per G.H.Raisoni College of Engineering Scheme and Syllabus under Autonomous status introduced from the academic session 2010-11

1. Since the last chance of Ist year B.E (U.G) and Ist and IInd Semester (P.G) courses as per R.T.M Nagpur University Scheme were exhausted in Winter 2011, the Academic Council of G.H.Raisoni College of Engineering in its meeting held on 01.03.2012 **given one more additional chance of Summer 2012** to first year B.E. (U.G.) and Ist and IInd Semesters of P.G. students to appear in Examinations as per scheme and ordinance of R.T.M. Nagpur University.
2. Academic Council in its same meeting dated 01.03.2012, approved the enclosed equivalence and absorption scheme considering the recommendations of Board of Studies of respective departments with incorporating following points:
   a) Students absorbed in Autonomous course shall required to clear some additional subjects which are already covered in earlier semesters, as Audit Course.
   b) Audit courses shall be offered as per the approval of respective Board of Studies.
   c) Students must acquire minimum pass grade in each audit course and they have to clear such courses before 8th Semester.
   d) For Students who are admitted in respective ordinance, same ordinance shall be followed for calculation of CGPA for award of their degree. For **Engineering Students** admitted in Ordinance having degree to be awarded on last 4 semesters their CGPA will be calculated from 5th to 8th semester. If such students are absorbed in or after 6th semester their previous semester marks will be converted to CGPA based on absolute grading and degree will be awarded by calculating CGPA from 5th to 8th semester. However, students admitted in the Ordinance of degree based on last 2 semester (Students admitted before 2004) their CGPA will be calculated for 7th & 8th semester only.
   e) Students who are absorbed in 4th semester will have to clear the audit courses of 3rd semester during 5th semester.
   f) Students absorbed in 5th semester will have to clear the audit courses of 3rd semester during 5th semester and audit courses of 4th semester during 6th semester.
   g) Students admitted in 6th semester will have to clear the audit courses of 3rd to 5th semester during 6th & 7th semester.

Absorption Scheme in Mechanical Engineering Branch of B.E. IIIrd and IVth Semester and M.Tech Ist, IInd and IIIrd Semester in CAD/CAM and Heat Power Engineering is enclosed herewith:

-Contd.-

Third Semester B.E.
Branch:- Mechanical Engineering

Sr. No.	Subject Code	Name of Subject as per R.T.M.N.U. Syllabus.	Subject Code	Name of Subject as per G.H.R.C.E. Syllabus Under Autonomous Status.	Equivalence	Remarks
1	NAML203	Applied Mathematics-III	BAML203	Applied Mathematics -III	Yes	-
2	NMEL201	Theory of Machines-I	BMEL204	Kinematics of machines	Yes	-
3	NMEL202	Fluid Power-I	BMEL202	Fluid Power I	Yes	-
4	NMEL203 NMEP203	Manufacturing Process-I	-	-	Equivalent to BMEL208 & BMEP208 Manufacturing Process - I of IVth Sem. BE Autonomous	-
5	NMEL204 NMEP204	Engineering Metallurgy	BMEL203 BMEP203	Materials Engineering	Yes	-
6	NMEL205 NMEP205	Computer Applications-I	-	-	-	EXEMPTION *1
7	NMEP206	Industrial Visit	-	-	-	EXEMPTION *2
8	--	--	BMEL201 BMEP201	Machine Drawing	--	Exempted
9	--	--	BMEL205	Engg. Thermodynamics	Equivalent to NMEL208 Engg. Thermodynamics of IVth Sem. BE in RMTNU	-
10	--	--	BMEP206	Computer aided Component Design	-	Audit Course
11	--	--	MBL102	General Proficiency - II	-	Audit Course

*1 :- Computer Application –I is exempted as there is a subject BMEL 209 Computer Applications in Mechanical Engg. in 5th Semester

*2 :- Industrial Visit is exempted as there is compulsory industrial training of 10 weeks in summer vacation immediately after 6thsemester .

AUDIT COURSES

Sr. No.	Subject Code	Name of Subject
1	BMEP206	Computer aided Component Design
2	MBL102	General Proficiency - II

EXEMPTED COURSES

Sr. No.	Subject Code	Name of Subject
1	BMEL201 BMEP201	Machine Drawing

,, Semester B.E.
,anch:- Mechanical Engineering

Sr. No.	Subject Code	Name of Subject as per R.T.M.N.U. Syllabus.	Subject Code	Name of Subject as per G.H.R.C.E. Syllabus Under Autonomous Status.	Equivalence	Remarks
1	NAML207	Applied Mathematics -IV	BAML207	Applied Mathematics IV	Yes	-
2	NMEL207	Machine Design-I	BMEL207	Mechanics of Material	Yes	-
3	NMEL208	Engineering Thermodynamics	-	-	Equivalent to BMEL205 Engg. Thermodynamics of III[rd] Sem. BE in Autonomous	-
4	NMEL301 NMEP301	Theory of Machines - II	BMEL301 BMEP301	Dynamics of machine	Yes	-
5	NMEL302 NMEP302	Fluid Power- II	BMEL302 BMEP302	Fluid Power II	Yes	-
6	NMEL303 NMEP303	Manufacturing Process - II	------	-	-	EXEMPTION *1
7	NMEP304	Mini Project	BMEP303	Industrial safety practices and work culture	Yes	-
8	--	--	BMEL208 BMEP208	Manufacturing Process - I	Equivalent to NMEL203 & NMEP203 Manufacturing Process - I of IIIrd Sem. BE in RTMNU	-
9	--	--	MBL103	General Proficiency - III	-	Audit Course

*1:- NMEL303 Manufacturing Process - II is exempted as there is a subject BMEL 306 Manufacturing Process – II in Mechanical Engg. in 5[th] Semester (Autonomy)

AUDIT COURSES		
Sr. No.	Subject Code	Name of Subject
1	MBL103	General Proficiency - III

First Semester M-Tech. CAD/CAM
Branch:- Mechanical Engineering

Sr. No.	Subject Code	Name of Subject as per R.T.M.N.U. Syllabus.	Subject Code	Name of Subject as per G.H.R.C.E. Syllabus Under Autonomous Status.	Equivalence	Remarks
1	NCDL409	Data Structures & Algorithms	CADL409	Data Structures & Algorithms	Yes	-
2	NCDL510	Computer Integrated Manufacturing	CADL510	Computer Integrated Manufacturing	Yes	-
3	NCDL410	Elective-I Materials Engineering	CADL410	Elective-I Materials Engineering	Yes	-
	NCDL413	Elective-I Image Processing	CADL413	Elective-I Image Processing	Yes	-
	NCDL411	Elective-I Engineering Management	CADL411	Elective-I Engineering Management	Yes	-
	NCDL412	Elective-I Total Quality System & Engineering	CADL412	Elective-I Total Quality System & Engineering	Yes	-
4	NCDL414 NCDP414	Computer Graphics for CAD/CAM	CADL414 CADP414	Computer Graphics for CAD/CAM	Yes	-
5	NCDL415 NCDP415	CNC & Robotics	CADL415 CADP415	CNC & Robotics	Yes	-

Second Semester M-Tech. CAD/CAM
Branch:- Mechanical Engineering

Sr. No.	Subject Code	Name of Subject as per R.T.M.N.U. Syllabus.	Subject Code	Name of Subject as per G.H.R.C.E. Syllabus Under Autonomous Status.	Equivalence	Remarks
1	NCDL511	Artificial Intelligence	CADL511	Artificial Intelligence	Yes	-
2	NCDL512	Modeling & Simulation	CADL512	Modeling & Simulation	Yes	-
3	NCDL513	Product Data Management	CADL513	Product Data Management	Yes	-
4	NCDL514 NCDP514	Finite Element Method	CADL514 CADP514	Finite Element Analysis	Yes	-
5	NCDL515 *NCDP515	Elective- II Mechatronics	CADL515	Elective- II Mechatronics	Yes	-
	NCDL516 *NCDP516	Elective- II Computer Aided Tool Design	CADL516	Elective- II Computer Aided Tool Design	Yes	-
	NCDL517 *NCDP517	Elective- II Plastics & Composites	CADL517	Elective- II Plastics & Composites	Yes	-
	NCDL518 *NCDP518	Elective- II Computational Fluid Dynamics	CADL518	Elective- II Computational Fluid Dynamics	Yes	-

Note:- * There is no practical for elective-II in Autonomy Scheme hence practical of respective Electives in RTMNU pattern are exempted.

Third Semester M-Tech. CAD/CAM Branch:- Mechanical Engineering						
Sr. No.	Subject Code	Name of Subject as per R.T.M.N.U. Syllabus.	Subject Code	Name of Subject as per G.H.R.C.E. Syllabus Under Autonomous Status.	Equivalence	Remarks
1	NCDL519	Manufacturing System Integration & Management	CADL519	Manufacturing System Integration & Management	Yes	-
2	NCDL520	Product Design & Development	CADL520	Product Design & Development	Yes	-
3	NCDP601	Seminar on Dissertation/ Thesis Research Methodology	CADP601	Project Seminar	Yes	-

First Semester M-Tech. Heat Power Engineering Branch:- Mechanical Engineering						
Sr. No.	Subject Code	Name of Subject as per R.T.M.N.U. Syllabus.	Subject Code	Name of Subject as per G.H.R.C.E. Syllabus Under Autonomous Status.	Equivalence	Remarks
1	NHPL409 NHPP409	Heat Transfer- I	HPEL409 HPEP409	Heat Transfer- I	Yes	-
2	NHPL410	Advance Thermodynamics	HPEL410	Advance Thermodynamics	Yes	-
3	NHPL411	Thermal Engineering-I	HPEL411	Thermal Engineering-I	Yes	-
4	NHPL412	Advance Energy Technology	HPEL412	Advance Energy Technology	Yes	-
5	NHPL413 NHPP413	Computer Aided Design	HPEL413 HPEP413	Computer Aided Design & Engineering	Yes	-

Second Semester M-Tech. Heat Power Engineering Branch:- Mechanical Engineering						
Sr. No.	Subject Code	Name of Subject as per R.T.M.N.U. Syllabus.	Subject Code	Name of Subject as per G.H.R.C.E. Syllabus Under Autonomous Status.	Equivalence	Remarks
1	NHPL414	Fluid Dynamics	HPEL414	Fluid Dynamics	Yes	-
2	NHPL510	Heat Transfer -II	HPEL510	Heat Transfer -II	Yes	-
3	NHPL511 NHPP511	Refrigeration & Air-conditioning Technologies	HPEL511 HPEP511	Refrigeration & Air-conditioning Technologies	Yes	-
4	NHPL512 NHPP512	Thermal Engineering - II	HPEL512 HPEP512	Thermal Engineering -II	Yes	-
5	NHPL513	Elective-I i) Energy Conservation & Management	HPEL513	Elective-I i) Energy Conservation & Management	Yes	
	NHPL514	Elective-I ii) Advance Cryogenics Systems	HPEL514	ii) Advance Cryogenics Systems	Yes	-