Rajarambapu Institute of Technology, Rajaramnagar

(An Autonomous Institute & Affiliated to Shivaji University, Kolhapur)

Academic Notification RIT/AC/2020-21/13

Date: 04/03/2021

NOTIFICATION

(2019-23 Batch)

Students of S. Y. B. Tech. classes (All Branches) are hereby informed that, **Minor and Honor Certification** scheme has been started in academics of RIT from academic year 2018-19. Looking to Global Scenario, Engineering students should have a knowledge of interdisciplinary courses and/or some advanced subjects of their respective branch in which they are perusing the degree. Hence, Minor or Honor degree will be awarded.

To get Minor or Honor degree certificate, aspiring student must register for additional FIVE THEORY courses and acquire additional maximum 15 credits (3 credits/course) for any ONE of the Schemes (either Minor or Honor). Students can apply for either Minor degree or Honor degree. Students who wish to apply for this scheme can get Minor or Honor degree certificate along with Major degree of their respective branch.

So, interested students who wish to apply for Minor or Honor Scheme should submit the application form to Head of your respective departments on or before 25th March 2021.

Please, refer the guidelines for Minor and Honor scheme as given below.

Dr. S. K. Patil

Dean Academics, RIT

Dr. Mrs. S. S. Kulkarni

Director, RIT

Student Guidelines for Minor/Honor Scheme

1. **Student can apply for either Minor scheme or Honor Scheme.**

2. **What is Minor Scheme?**
    A. Under this scheme student have to complete extra five courses and earn extra 15 credits (3 credits per course) of a branch other than their native branch.
    B. Students have to select a branch for Minor degree. E.g. If Mechanical Engineering student selects Civil Engineering under this scheme, he/she will get **Major degree of Mechanical Engineering with Minor degree in Civil Engineering.**
    C. All the courses will be taught by respective department faculty members via online or offline mode.
    D. For each course there will be extra 3 hrs scheduled (3 hrs Theory / 1 hr Theory + 2 hrs Practical) per week.
    E. Structure of various courses offered by all the departments are listed in **Anexure- I**
    F. **Evaluation:** ISE, UT1, UT2 and ESE will be conducted to complete evaluation of minor courses.
    G. The year wise schedule of the Minor courses will be as follows;

Sr. No.	Course Number	Year	Semester
1	Course I	Second Year	4th Sem
2	Course II	Third Year	5th Sem
3	Course III	Third Year	6th Sem
4	Course IV	Final Year	7th Sem
5	Course V	Final Year	8th Sem

3. **What is Honor scheme?**

    A. Students from same department are eligible for Honor degree.
    B. Under this scheme student have to complete extra five advance certification courses of their native branch offered by various online platforms.
    C. E.g. If Mechanical Engineering student selects advanced subjects from same branch under this scheme, he/she will get **Major degree along with Honor degree of Mechanical Engineering.**
    D. All the courses will be listed time to time by respective department from online platforms such as NPTEL/ edX/ Coursera/ Udacity/ Purdue Next/ Khan Academy/ QEEE etc.
    E. Student can select one subject per semester from the list of Honor courses of a branch in which they are pursuing the degree. (refer **Annexure-II** for tentative Honor courses)

F. Mentor will be allotted from host departments to guide the students during his/her entire curriculum.

G. **Evaluation:** Student have to submit certificate of completion of online course. After submission of certificate Viva Oral Exam will be conducted to complete evaluation of Honor courses.

4. **Registration process.**

   A. Interested students can register under Minor/ Honor scheme by submitting an application form to HoD of your respective department. (Refer **Annexure- III** for application form)

   B. After submission of form students have to pay ₹ **5000/-** as a registration fees. (Non-refundable one-time payment for all five courses)

   C. After payment confirmation registered students list will be displayed along with Minor/ Honor courses time table on the department notice board.

5. **The Minor/Honor scheme starts from 4th Semester.**

6. **Tenure :** All the registered students must complete Minor/ Honor courses within **Five Semesters** (One course per semester starting from 2nd Year 2nd semester to 4th Year 2nd semester) i.e. 4th semester to 8th semester of degree program.

7. **For registered students if he/she has completed respective courses, Major Degree will be awarded along with Minor/ Honor certification. If any registered student unable to complete given courses for Minor/ Honor within the timeline given then that student will be given Major degree only.**

8. **Tentative timeline for the Minor/ Honor Scheme**
   - ➢ Last date for submission of application form   - 25/03/2021
   - ➢ Last date for fees payment   - 31/03/2021
   - ➢ Display of list of students and timetable   - 05/04/2021
   - ➢ Start of Course – I   - 10/04/2021

9. **Further instructions and updates will communicated if required.**

10. For any queries and more information kindly contact following faculty members

Sr. No.	Department	Coordinator Name	Contact no.
1	Automobile	Prof. Shirish Mane	7972714870
2	Mechanical	Prof. Ajinkya Patil	8830897023
3	Civil	Prof. Athar Jamadar	8888322569
4	CSE	Prof. Durgesh Kshirsagar	8600009780
5	CSIT	Prof. P. T. Sawant	9096308092
6	E&TC	Prof. Randhir Patil	9423984211
7	Electrical	Prof. Sachin Kumbhar	9284228266

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Annexure – I
Courses offered under **Minor** scheme

Department of Automobile Engineering

Semester	Course Code	Course title	Teaching Scheme				Evaluation Scheme					
			L	T	P	Credits	Scheme	Theory (Marks)			Practical (Marks)	
								Max	Min. for passing (%)		Max.	Min. for passing (%)
IV	AEM202	Automotive Chassis	3	-	-	3	ISE	20	40	40	----	----
							UT1	15			----	----
							UT2	15			----	---
							ESE	50	40		----	----
V	AEM301	Automotive Powertrain	3	-	-	3	ISE	20	40	40	----	----
							UT1	15			----	----
							UT2	15			----	----
							ESE	50	40		----	----
VI	AEM302	Automotive Transmission	3	-	-	3	ISE	20	40	40	----	----
							UT1	15			----	----
							UT2	15			----	----
							ESE	50	40		----	----
VII	AEM401	Automotive Body Engineering	3	-	-	3	ISE	20	40	40	----	----
							UT1	15			----	----
							UT2	15			----	----
							ESE	50	40		----	----
VIII	AEM402	Automotive Safety	3	-	-	3	ISE	20	40	40	----	----
							UT1	15			----	----
							UT2	15			---	----
							ESE	50	40		----	----
		TOTAL	15	-	-	15						

Department of Mechanical Engineering

Semester	Course Code	Course title	Teaching Scheme				Evaluation Scheme						
								Theory (Marks %)			Practical (Marks %)	
			L	T	P	Credits	Scheme	Max	Min. for passing		Max.	Min. for passing
IV	MEM202	Applied Thermodynamics	3			3	ISE	20		40	----	----
							UT1	15	40		----	----
							UT2	15			----	---
							ESE	50	40		----	----
V	MEM301	Material Science	3			3	ISE	20		40	----	----
							UT1	15	40		----	----
							UT2	15			----	----
							ESE	50	40		----	----
VI	MEM302	Basics of Design Engineering	3			3	ISE	20		40	----	----
							UT1	15	40		----	----
							UT2	15			----	----
							ESE	50	40		----	----
VII	MEM401	Design of Machine components	3			3	ISE	20		40	----	----
							UT1	15	40		----	----
							UT2	15			----	----
							ESE	50	40		----	----
VIII	MEM402	Manufacturing Processes	3			3	ISE	20		40	----	----
							UT1	15	40		----	----
							UT2	15			---	----
							ESE	50	40		----	----
		TOTAL	15	-	-	15						

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Department of Civil Engineering

Semester	Course Code	Course title	Teaching Scheme				Evaluation Scheme					
								Theory (Marks %)		Practical (Marks %)	
			L	T	P	Credits	Scheme	Max	Min. for passing	Max.	Min. for passing
IV	CEM202	Introduction to Building Construction and Materials	3	-	-	3	ISE	20	40	----	----
							UT1	15		----	----
							UT2	15		----	---
							ESE	50	40	----	----
V	CEM301	Geographic Information Systems (GIS)	3	-	-	3	ISE	20	40	----	----
							UT1	15		----	----
							UT2	15		----	----
							ESE	50	40	----	----
VI	CEM302	Solid Waste Management	3	-	-	3	ISE	20	40	----	----
							UT1	15		----	----
							UT2	15		----	----
							ESE	50	40	----	——
VII	CEM401	Disaster Management	3	-	-	3	ISE	20	40	----	----
							UT1	15		----	----
							UT2	15		----	----
							ESE	50	40	----	----
VIII	CEM402	Smart Cities and Sustainable Development	3	-	-	3	ISE	20	40	----	----
							UT1	15		----	----
							UT2	15		---	----
							ESE	50	40	----	----
		TOTAL	15	-	-	15					

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Department of Computer Science and Engineering

Semester	Course Code	Course title	Teaching Scheme				Evaluation Scheme						
			L	T	P	Credits	Scheme	Theory (Marks %)			Practical (Marks %)		
								Max	Min. for passing		Max.	Min. for passing	
IV	CSM202	Advanced C programming	2	-	2	3	ISE	-	-	-	50	50	
							ESE	-	-		50	50	
V	CSM301	Data structure & Algorithms	2	-	2	3	ISE	-	-	-	50	50	
							ESE	-	-		50	50	
VI	CSM302	Object Oriented Programming	2	-	2	3	ISE	-	-	-	50	50	
							ESE	-	-		50	50	
VII	CSM401	Software Engineering	3	-	-	3	ISE	20	40	40	-	-	
							UT1	15			-	-	
							UT2	15			-	-	
							ESE	50	40		-	-	
VIII	CSM402	JAVA Programming	2	-	2	3	ISE	-	-	-	50	50	
							ESE	-	-		50	50	
		TOTAL	11	-	8	15							

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Department of CS&IT Engineering

Semester	Course Code	Course title	Teaching Scheme				Evaluation Scheme					
			L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)	
								Max	Min. for passing	Max.	Min. for passing
IV	CIM202	Data Structures and Algorithms	3			3	ISE	20	40	----	----
							UT1	15		----	----
							UT2	15	40	----	---
							ESE	50	40	----	----
V	CIM301	Database Engineering	3			3	ISE	20	40	----	----
							UT1	15		----	----
							UT2	15	40	----	----
							ESE	50	40	----	----
VI	CIM302	System Administration and Network Configuration Lab	2		2	3	ISE	----	----	----	50	50
							ESE	----	----	----	50	50
VII	CIM401	Software Engineering and Object-Oriented Modeling	3			3	ISE	20	40	----	----
							UT1	15		----	----
							UT2	15	40	----	----
							ESE	50	40	----	----
VIII	CIM402	Web Technology Lab	2		2	3	ISE	----	----	----	50	50
							ESE	----	----	----	50	50
		TOTAL	**13**	**-**	**4**	**15**					

Department of Electronics and Telecommunication Engineering

Semester	Course Code	Course title	L	T	P	Credits	Scheme	Theory (Marks %) Max	Theory (Marks %) Min. for passing	Practical (Marks %) Max.	Practical (Marks %) Min. for passing
IV	ECM202	Analog Electronics	3			3	ISE	20	40	----	----
							UT1	15		----	----
							UT2	15	40	----	---
							ESE	50	40	----	----
V	ECM301	Digital Electronics	3			3	ISE	20	40	----	----
							UT1	15		----	----
							UT2	15	40	----	----
							ESE	50	40	----	----
VI	ECM302	Electronics Communication	3			3	ISE	20	40	----	----
							UT1	15		----	----
							UT2	15	40	----	----
							ESE	50	40	----	----
VII	ECM401	Microcontrollers	3			3	ISE	20	40	----	----
							UT1	15		----	----
							UT2	15	40	----	----
							ESE	50	40	----	----
VIII	ECM402	Industrial Electronics	3			3	ISE	20	40	----	----
							UT1	15		----	----
							UT2	15	40	---	----
							ESE	50	40	----	----
		TOTAL	15	-	-	15					

Department of Electrical Engineering

Semester	Course Code	Course title	Teaching Scheme				Evaluation Scheme					
			L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
								Max	Min. for passing	Max.	Min. for passing	
IV	EEM202	Electrical Machines	3			3	ISE	20	40	----	----	
							UT1	15		----	----	40
							UT2	15		----	---	
							ESE	50	40	----	----	
V	EEM301	Power System	3			3	ISE	20	40	----	----	
							UT1	15		----	----	40
							UT2	15		----	----	
							ESE	50	40	----	----	
VI	EEM302	Power System Protection	3			3	ISE	20	40	----	----	
							UT1	15		----	----	40
							UT2	15		----	----	
							ESE	50	40	----	----	
VII	EEM401	Power Electronics and Applications	3			3	ISE	20	40	----	----	
							UT1	15		----	----	40
							UT2	15		----	----	
							ESE	50	40	----	----	
VIII	EEM402	Renewable Energy Sources	3			3	ISE	20	40	----	----	
							UT1	15		----	----	40
							UT2	15		---	----	
							ESE	50	40	----	----	
		TOTAL	15	-	-	15						

Annexure – II
Tentative Courses under **Honor** scheme

Sr.No	Department	Honor Courses
1	Automobile Engineering	Engine Combustion
2		Smart Material, Adaptive Structures and Intelligent Mechanical System
3		Non-Conventional Energy Resources
4		Electric Vehicles and Mobility
5		Electric Cars: Technology
6	Civil Engineering	Advance topics in the science and technology of concrete.
7		Digital land surveying and mapping.
8		Electronic waste management issues and challenges.
9		Energy efficiency, acoustics and day lighting in building.
10		Environmental remediation of contaminated sites.
11		Geotechnical Engineering II, Foundation engineering.
12		Infrastructure planning and management.
13		Soil mechanics/ Geotechnical engineering I
14	Computer Science Engineering	Data Mining
15		Devops
16		Software defined networking
17		Deep Learning
18		Cryptology and Network Forensics
19	Electrical Engineering	Power System Engineering
20		Principles of Digital Communications
21		Power System Dynamics, Control and Monitoring
22		Advance power electronics and Control
23		Biomedical Signal Processing
24		Advances in UHV Transmission and Distribution
25		Advanced IOT Applications
26		Electronic Modules for Industrial Applications using Op-Amps

Sr.No	Department	Honor Courses
27	Electronics and Telecommunication Engineering	Electronic enclosures and Thermal Issues
28		Programming data structure & Algorith in python
29		Android App development
30		Industrial automation and control
31		Deep learning for visual computing// introduction to soft computing
32		Remote sensing and digital image processing of satellite data
33		Architecture of IC
34		Cryptolography and Network security
35	Computer science and Information Technology	Programming data structure & Algorith in python
36		System administration and IT infrastructure services
37		Web design
38		Graph Theory
39		Image processing
40		Software processing and Agile practices
41		Computer Vision
42		Advanced Algorithms
43		Real time operating systems
44		Deep Learning
45		Parallel Algorithsms
46		Embedded Systems
47		Pattern Recognition
48		Data Science
49		Robotics
50	Mechanical Engineering	Mechanical Vibrations
51		Synthesis and analysis of Mechanisms
52		Theory of Elasticity
53		Advanced Manufacturing Systems
54		Robotics & Manufacturing Automation

Sr.No	Department	Honor Courses
55		Advanced Metal Forming
56		Advanced Thermodynamics and Combustion
57		Advanced Heat Transfer
58		Computational Fluid Dynamics
59		Computer Aided Manufacturing
60		Advanced foundry Technology
61		Design of Thermal System
62		Computer Aided Design

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Annexure – III

Registration Form under **Honor** Degree Scheme

Date -   /   / 2021

To,
Head of Department,
Department of _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
RIT, Rajaramnagar.

Subject: Registration under Honor Degree scheme

Respected sir/ madam,

As per information provided below I would like to register for **Honor Degree Scheme** offered by the institute. I will follow all the rules and regulation to complete my graduation under this scheme.

Student Name	
Contact No	
Department	
PRN	
CGPA Up to 3rd Semester	

I wish to apply for Honor scheme offered by our department. Kindly give permission to register under this scheme.

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Student Sign   HoD   Dean Academics

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Registration Form under **Minor** Degree Scheme

Date -   /   / 2021

To,
Head of Department,
Department of _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
RIT, Rajaramnagar.

Subject: Registration under Minor Degree scheme

Respected sir/ madam,

As per information provided below I would like to register for **Minor Degree Scheme** offered by the institute. I will follow all the rules and regulation to complete my graduation under this scheme.

Student Name			
Contact No			
Department			
PRN			
CGPA Up to 3rd Semester			
I wish to apply for Minor Scheme under department of (mark ✓ in front of appropriate department)	Automobile Engineering	
	Mechanical Engineering	
	Civil Engineering	
	Computer Science & Engineering	
	Computer Science & Information Technology	
	E&TC Engineering	
	Electrical Engineering	

Kindly give permission to register under Minor Scheme.

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Student Sign   HoD   Dean Academics