Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

III Semester Bachelor of Technology (B.Tech.) [Information Technology]

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical						
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work / Lab Work & Sessional		L	T	P	
1.	ES301	HSMC-3	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
2.	IT302	DC-1	Discrete Structure	70	20	10	-	-	100	3	1	-	4
3.	IT303	DC-2	Data Structure	70	20	10	30	20	150	3	-	2	4
4.	IT304	DC-3	Object Oriented Programming &Methodology	70	20	10	30	20	150	3	-	2	4
5.	IT305	DC-4	Digital Circuits & System	70	20	10	30	20	150	3	-	2	4
6.	IT306	DLC-3	JAVA Programming Lab	-	-	-	30	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at I year level	-	-	-	-	50	50			4	2
8.	BT307	DLC-4	90 hrs Internship based on using various software's –Internship -II	To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.									
			Total	350	100	50	120	130	750	15	2	14	24
9.	BT308	MC	Indian Constitution	Non-credit course									
NC301			NSS/NCC										

*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	**1 Credit**	**1 Credit**

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

III Semester Bachelor of Technology (B.Tech.) [Computer Science and Engineering/ Computer Engineering/Computer Science & Technology]

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical						
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work / Lab Work & Sessional		L	T	P	
1.	ES301	HSMC-3	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
2.	CS302	DC-1	Discrete Structure	70	20	10	-	-	100	3	1	-	4
3.	CS303	DC-2	Data Structure	70	20	10	30	20	150	3	-	2	4
4.	CS304	DC-3	Digital Systems	70	20	10	30	20	150	3	-	2	4
5.	CS305	DC-4	Object Oriented Programming & Methodology	70	20	10	30	20	150	3	-	2	4
6.	CS306	DLC-3	Computer Workshop	-	-	-	30	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at I year level	-	-	-	-	50	50			4	2
8.	BT307	DLC-4	90 hrs Internship based on using various softwares –Internship -II	To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.									
			Total	350	100	50	120	130	750	15	2	14	24
9.	BT308	MC	Indian Constitution	Non-credit course									
NC301			NSS/NCC										

***Students can earn additional credits from the University recognized MOOC courses.**

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	**1 Credit**	**1 Credit**

Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester Bachelor of Technology (B.Tech.) [Civil Engineering]

For batches admitted in July, 2020 (w.e.f. Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical						
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work / Lab Work & Sessional		L	T	P	
1.	**ES401**	BSC	**Energy & Environmental Engineering**	70	20	10	-	-	100	3	1	-	4
2.	**CE402**	DC	**Construction Technology**	70	20	10	30	20	150	2	1	2	4
3.	**CE403**	DC	**Structural Analysis-I**	70	20	10	30	20	150	3	1	2	5
4.	**CE404**	DC	**Transportation Engineering-I**	70	20	10	30	20	150	3	1	2	5
5.	**CE405**	DC	**Engineering Geology & Remote Sensing**	70	20	10	30	20	150	3	0	2	4
6.	**CE406**	DLC*	**Software Lab**	-	-	-	30	20	50	-	-	4	2
7.	**BT407**	DLC	**90 hrs Internship based on using various software's –Internship -II**	**To be completed anytime during fourth semester. Its evaluation/credit to be added in fifth semester.**									**3**
			Total	**350**	**100**	**50**	**150**	**100**	**750**	**14**	**4**	**12**	**24**
8.	**BT408**	MC	Cyber Security	**Non-credit course**									
9.	**BT409I**	MC	Indian Knowledge System	**Non-credit course**									
	NC001		**NSS/NCC**										

***A minimum of 2hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.**

MST: Minimum of two mid semester tests to be conducted.

*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	**1 Credit**	**1 Credit**

Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester Bachelor of Technology (B.Tech.) [Mechanical Engineering]

For batches admitted in July, 2020 (w.e.f. Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical						
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work / Lab Work & Sessional		L	T	P	
1.	**ES401**	BSC	**Energy & Environmental Engineering**	70	20	10	-	-	100	3	1	-	4
2.	**ME402**	DC	**INSTRUMENTATION & CONTROL**	70	20	10	30	20	150	2	1	2	4
3.	**ME403**	DC	**THEORY OF MACHINES**	70	20	10	30	20	150	3	1	2	5
4.	**ME404**	DC	**FLUID MECHANICS**	70	20	10	30	20	150	3	1	2	5
5.	**ME405**	DC	**MANUFACTURING TECHNOLOGY**	70	20	10	30	20	150	3	0	2	4
6.	**ME406**	DLC*	**SOFTWARE LAB**	-	-	-	30	20	50	-	-	4	2
7.	**BT407**	DLC	**90 hrs Internship based on using various software's –Internship -II**	**To be completed anytime during fourth semester. Its evaluation/credit to be added in fifth semester.**									**3**
			Total	**350**	**100**	**50**	**150**	**100**	**750**	**14**	**4**	**12**	**24**
8.	**BT408**	MC	Cyber Security	**Non-credit course**									
9.	**BT409I**	MC	Indian Knowledge System	**Non-credit course**									
	NC001		**NSS/NCC**										

***A minimum of 2hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.**

MST: Minimum of two mid semester tests to be conducted.

*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	**1 Credit**	**1 Credit**

Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester Bachelor of Technology (B.Tech.) [Electronics & Communication Engineering]

For batches admitted in July, 2020 (w.e.f. Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical						
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work / Lab Work & Sessional		L	T	P	
1.	ES401	BSC	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
2.	EC402	DC	Signals & Systems	70	20	10	30	20	150	2	1	2	4
3.	EC403	DC	Analog Communication	70	20	10	30	20	150	3	1	2	5
4.	EC404	DC	Control System	70	20	10	30	20	150	3	1	2	5
5.	EC405	DC	Analog Circuits	70	20	10	30	20	150	3	0	2	4
6.	EC406	DLC*	Simulation Lab	-	-	-	30	20	50	-	-	4	2
7.	BT407	DLC	90 hrs Internship based on using various software's –Internship -II	To be completed anytime during fourth semester. Its evaluation/credit to be added in fifth semester.									3
		Total		350	100	50	150	100	750	14	4	12	24
8.	BT408	MC	Cyber Security	Non-credit course									
9.	BT409I	MC	Indian Knowledge System	Non-credit course									
	NC001	NSS/NCC											

***A minimum of 2hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.**

MST: Minimum of two mid semester tests to be conducted.

*Students can earn additional credits from the University recognized MOOC courses.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	**1 Credit**	**1 Credit**

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

Branch- Common to All Discipline

ES301	**Energy & Environmental Engineering**	**3L-1T-0P**	**4 Credits**

The objective of this Course is to provide *an introduction to energy systems and renewable energy resources, with a scientific examination of the energy field and an emphasis on alternative energy sources and their technology and application.*

Module 1: Introduction to Energy Science:

Introduction to energy systems and resources; Introduction to Energy, sustainability & the environment; Overview of energy systems, sources, transformations, efficiency, and storage; Fossil fuels (coal, oil, oil-bearing shale and sands, coal gasification) - past, present & future, Remedies & alternatives for fossil fuels - biomass, wind, solar, nuclear, wave, tidal and hydrogen; Sustainability and environmental trade-offs of different energy systems; possibilities for energy storage or regeneration (Ex. Pumped storage hydro power projects, superconductor-based energy storages, high efficiency batteries)

***Module2*: Ecosystems**

- Concept of an ecosystem; Structure and function of an ecosystem; Producers, consumers and decomposers; Energy flow in the ecosystem; Ecological succession; Food chains, food webs and ecological pyramids; Introduction, types, characteristic features, structure and function of the following ecosystem (a.)Forest ecosystem (b) Grassland ecosystem (c) Desert ecosystem (d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

***Module 3*: Biodiversity and its conservation**

- Introduction – Definition: genetic, species and ecosystem diversity; Bio-geographical classification of India; Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values; Biodiversity at global, National and local levels; India as a mega-diversity nation; Hot-sports of biodiversity; Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts; Endangered and endemic species of India; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

***Module 4:* Environmental Pollution**

- Definition, Cause, effects and control measures of Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear hazards; Solid waste Management: Causes, effects and control measures of urban and industrial wastes; Role of an individual in prevention of pollution; Pollution case studies; Disaster management: floods, earthquake, cyclone and landslides.

Module 5: **Social Issues and the Environment**

- From Unsustainable to Sustainable development; Urban problems related to energy; Water conservation, rain water harvesting, watershed management; Resettlement and rehabilitation of people; its problems and concerns. Case Studies

  Environmental ethics: Issues and possible solutions. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies Wasteland reclamation; Consumerism and waste products; Environment Protection Act; Air (Prevention and Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act; Issues involved in enforcement of environmental legislation; Public awareness.

Module 6: Field work

- Visit to a local area to document environmental assets-river/forest/grassland/hill/mountain
- Visit to a local polluted site-Urban/Rural/Industrial/Agricultural
- Study of common plants, insects, birds.
- Study of simple ecosystems-pond, river, hill slopes, etc.

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1. Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc.
2. Clark R.S., Marine Pollution, Clanderson Press Oxford (TB).
3. Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumabai,
4. De A.K., Environmental Chemistry, Wiley Eastern Ltd.
5. Trivedi R.K., Handbook of Environmental Laws, Rules Guidelines, Compliances and Standards', Vol I and II, Enviro Media (R)
6. Boyle, Godfrey, Bob Everett, and Janet Ramage (Eds.) (2004), Energy Systems and Sustainability: Power for a Sustainable Future. Oxford University Press.
7. Schaeffer, John (2007), Real Goods Solar Living Sourcebook: The Complete Guide to Renewable Energy Technologies and Sustainable Living, Gaiam

NRI Institute of Information Science and Technology, Bhopal

Plantation by Green club

With a vow to save environment the BBA & MBA students planted saplings in the college on 4th October 2019. During the Programme the students planted the saplings of Jamun (black plum) and other tress at the campus. Director said, "We have organized the event to observe the "World Tree Plantation Day" and also to contribute our bit in the "Go clean Go green" initiative as it is our responsibility to contribute our bit in keeping our city clean and beautiful."





To create awareness among MBA students on climate issues, a Green Club conducts and education drive at DB Mall on 12thOctober 2019 to educate the public about Plastic Waste in Bhopal. The program aims to build awareness amongst the youth on environmental and to encourage the public to reuse recyclables.

Bird Watching Camp

Bird Watching camp was organized by Department of Management, NRI Institute of Information Science and Technology, Bhopal for nature lovers. The primary aim was to record as many species of birds as possible in a single day.
"Our expectation after the Camp is that these students have an elevated appreciation and love for nature and a greater motivation to lead a sustainable movement in their community," "Event was organized in order to spread sensitivity and awareness towards wildlife & Biodiversity among the students and the teachers."


NRI GROUP OF INSTITUTIONS
BHOPAL
gleenClub
Presents
BIRD WATCH CAMP
Organized by Department of Management


CHICAGO
NRI GROUP OF INSTITUTIONS
BHOPAL
gleenClub
Department of Management

Green Day Celebration

The Department of Management celebrated GREEN Day on 9th December 2022. The Guest of the Event was Dr. A.B. Singh, Director, IISS and Dr.Anand Kumar Vishwakarma, Principal Scientist , IISS. The program commenced with the arrival of the Guest, Management, Faculties and Students. The Distinguished guest along with students planted a number of saplings and took oath to preserve it in the NRI Campus and outside to save mother earth. The Chairman, Mr. D. Subodh Singh and Director, appreciated such Environment Friendly Events in the Campus and encouraged to do so in future.





NRI Institute of Information Science and Technology, Bhopal

Women's Day Celebration

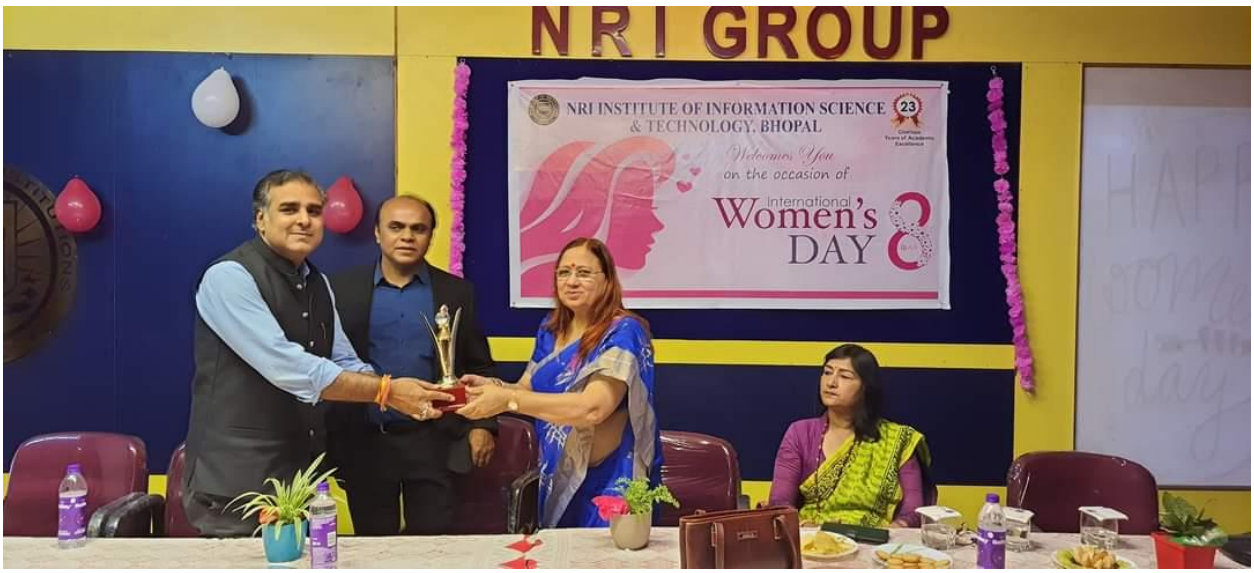







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Women's
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