



# अधिष्ठाता अकादमिक / Dean-Academics

राष्ट्रीय प्रौद्योगिकी संस्थान – रायपुर  
NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR  
(Institute of National Importance)  
G.E. Road, Raipur – 492010 (C.G.)

No./NITRR/Dean (Academic)/2021/

Raipur, 12.07.2021

## List of Open Electives offered in V<sup>th</sup> Semester (CBCS Scheme)

### Biomedical Engineering

S.no	Open Electives Offered	Subject Code	Name of the Faculty and designation	Prerequisites, if any	Exclusion criterion if any
01	Analytical and Diagnostic Medical Equipments	BM105311BM	Dr Arindam Bit, Asst. Professor	None	None

### Biotechnology

S.no	Open Electives Offered	Subject Code	Name of the Faculty and designation	Prerequisites, if any	Exclusion criterion if any
01	Environmental Biotechnology	BT105301BT	Dr. D Vasanth, Asst. Professor	Basic Environmental Science	None

### Chemical Engineering

S.no	Open Electives Offered	Subject Code	Name of the Faculty and designation	Prerequisites, if any	Exclusion criterion if any
01	Industrial Economics and Management	CH105301CH	Dr. B. Mazumdar	None	None

### Civil Engineering

S.no	Open Electives Offered	Subject Code	Name of the Faculty and designation	Prerequisites, if any	Exclusion criterion if any
01	Project Planning and Management	CV105301CV	Dr. S. Deol G. Asst. Professor	None	None
02	Mechanics of composite materials	CV105302CV	Dr. Alfia Bano Asst. Professor	None	None

### Computer Application (MCA)

S.no	Open Electives Offered	Subject Code	Name of the Faculty and designation	Prerequisites, if any	Exclusion criterion if any
01	Pattern Recognition	CA405302CA	Dr. T.K. Das Asst. Professor	Data Science and AI & Machine Learning	None

## Computer Science & Engineering

S.no	Open Electives Offered	Subject Code	Name of the Faculty and designation	Prerequisites, if any	Exclusion criterion if any
01	Web Technology	CS105301CS	Will be informed by the Department	None	CPI/SPI
02	Data Science	CS105302CS	Dr. Pradeep Singh /Dr A Sharaff Asst. Professor	None	CPI/SPI

## Electrical Engineering

S.no	Open Electives Offered	Subject Code	Name of the Faculty and designation	Prerequisites, if any	Exclusion criterion if any
01	Energy Conversion System	EL105301EL	Dr. R.N. Patel Assoc. Professor	None	None
02	Instrumentation & control	EL105302EL	Dr. N.D. Londhe Assoc. Professor	Basic Electrical Engineering	None
03	Digital System Design	EL105303EL	Dr. S. Jain Assoc. Professor	None	None
04	Advanced Semiconductor Devices	EL105304EL	Dr. S. Pattnaik Asst. Professor	None	None

## Electronics & Communication Engineering

S.no	Open Electives Offered	Subject Code	Name of the Faculty and designation	Prerequisites, if any	Exclusion criterion if any
01	Digital Image Processing	EC105301EC	Dr. T. Meenpal Asst. Professor	Digital Signal Processing	None

## Information Technology

S.no	Open Electives Offered	Subject Code	Name of the Faculty and designation	Prerequisites, if any	Exclusion criterion if any
01	Digital Image Processing	IT105301IT	Dr. Rekh Ram Janghel Asst. Professor	Basic concept/ knowledge of programming and logical abilities, Computational Mathematics	None

## Mathematics

S.no	Open Electives Offered	Subject Code	Name of the Faculty and designation	Prerequisites, if any	Exclusion criterion if any
01	Introduction to Python Programming	MA105301MA	Dr. M. K. Prasad Asst. Professor	Math-I, Math-II	None
02	Mathematical Modeling	MA105302MA	Dr. S. N. Raw Asst. Professor	Math-I, Math-II, Math-III, Math-IV	None
03	Statistics with R Programming	MA105303MA	Dr. A. K. Sharma Asst. Professor	Math-IV, Basic Programming	None

## Mechanical Engineering

S.no	Open Electives Offered	Subject Code	Name of the Faculty and designation	Prerequisites, if any	Exclusion criterion if any
01	Finite Element Method	ME105301ME	Dr. Shubhankar Bhowmick Assoc. Professor	Math (I, II and III), Numerical Methods, Mech. of Solids and Fluids	None
02	Computational Fluid Dynamics	ME105302ME	Dr. Satish Dewangan Asst. Professor	Basic course in Fluid Mechanics	None
03	Composite Materials and Mechanics	ME105303ME	Dr. G Srinivasu, Asst. Professor	Mechanics of Solids, Material Science	None

## Metallurgical & Materials Engineering

S.no	Open Electives Offered	Subject Code	Name of the Faculty and designation	Prerequisites, if any	Exclusion criterion if any
01	Non-Destructive Testing	MM105301MM	Will be informed by the Department	Knowledge of Materials testing is preferable	None
02	Powder Metallurgy	MM105302MM	Will be informed by the Department	None	None

### Note:-

1. The faculty offering the open elective and/or the department may restrict registration to an elective on the basis of CPI, pre-requisites or any other as may be deemed fit.

**Dean-Academics  
NIT Raipur**