



राष्ट्रीय प्रौद्योगिकी संस्थान, रायपुर
(राष्ट्रीय महत्व का संस्थान)

National Institute of Technology, Raipur
(Institute of National Importance)



कार्यालय-अधिष्ठाता (अकादमिक)/ Office of Dean (Academic)

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NITRR/D(A)/Notice/2026/2535

29.06.2026

Notice

The list of Open/Program elective has been circulated to all the departments and the same is also available on the institute website under Downloads/Notice section.

All the eligible students of 5th, 7th and 9th semester (B. Architecture) are hereby instructed to compulsory fill the choices and submitted it in MIS from 29.06.2026 till 10.07.2026.

Kindly note that, after the due date, no submission shall be allowed under any circumstances.

Choice filling activity is not for the student who are due to appear in the supplementary examination. Such students need to contact their HoDs for allocation of departmental electives.


Dean (Academic) 29/06/26
NIT Raipur

Copy to:-

- Controller of Examination, NIT Raipur
- Head of Departments for wide circulation among departmental faculties and students
- Webmaster :- For uploading the notice on institute website

List of Open and Program Electives for Autumn 2026 Semester

Sr. No.	Branch	Semester	Name of the elective offered	Type of Elective (Open/Program)	Subject code	Name of the faculty and designation	Prerequisites (If any)	Max Number of Students	Exclusion criteria* (If more than maximum number of students opt the course)
Architecture and Planning									
1	Architecture and Planning	5th	Site Planning	Program	AR205021AR	Mrs. Kabita Biswas Sharma	None	40	First Come First Serve
2		5th	Geometry in Architecture	Program	AR205020AR	Dr. Abir Bandyopadhyay	None	40	First Come First Serve
3		7th	Intelligent Building	Open	AR207201AR	Dr. Debashis Sanyal	None	40	First Come First Serve
4		7th	Modular Coordination	Open	AR207202AR	Mrs. Kabita Biswas Sharma	None	40	First Come First Serve
5		7th	Alternate Bldg. Mat. and Techniques	Open	AR207203AR	Dr. Shrut Shreed Nagbave	None	40	First Come First Serve
6		9th	Environmental Planning	Program	AR209020AR	Ms. Shalini Sahu	None	40	First Come First Serve
7		7th	Architectural Conservation	Program	AR206020AR	Mrs. Debnath Das	None	40	First Come First Serve
8		9th	Landscape Architecture	Program	AR206030AR	Dr. Himanshu Poptani	None	40	First Come First Serve
Bio-Medical Engineering									
1	Biomedical Engineering	5th	Artificial Intelligence	Program Elective	BM165020BM	Dr. Saazathi Gupta	NIL	60	CPI
2		5th	Analytical & Diagnostic Medical Equipment	Open Elective	BM165301BM	Dr. Arindam Bit	NIL	60	CPI
3		7th	Rehabilitation Engineering	Program Elective-III	BM167201BM	Dr. Sudip Paul	NIL	60	CPI
4		7th	Basic Clinical Science	Program Elective-IV	BM167221BM	Dr. Nishant Kumar Singh	NIL	60	CPI
5		7th	Biochemistry	Program Elective-IV	BM167203BM	Dr. Souvik Biswas	NIL	60	CPI
6		7th	Lab on Chip Devices	Open Elective-III	BM167301BM	Dr. Mamak Basu	NIL	60	CPI
7		7th	Biostatistics	Open Elective-III	BM167302BM	Dr. H. Maitra	NIL	60	CPI
Bio Technology									
1	Biotechnology	5th	Food Biotechnology (PE-I)	Program	BT105201BT	Dr. Sharda Bharti(Assistant Professor)	Pre Requisite: Microbiology and Plant Biotechnology	91	Other Branch CGPA + 8.5
2		5th	Environmental Biotechnology (OE-I)	Open	BT105301BT	Ms. Trishna Anand (Temporary Faculty)	Pre Requisite: Microbial metabolism, Ecology and Ecosystem	91	Other Branch CGPA + 8.5
3		7th	Industrial Biotechnology (PE-4)	Program	BT107207BT	Dr. Pratima Gupta (Professor)	Pre Requisite: Microbiology, Biochemistry, Molecular biology	45	Other Branch CGPA + 8.5
4		7th	Unit Operations(PE-5)	Program	BT107208BT	Dr. D. Vasanth (Assistant Professor)	Pre Requisite: Knowledge of Basics of Biology and Mathematics chemistry	45	Other Branch CGPA + 8.5
5		7th	Nano Biotechnology (OE-I)	Open	BT107308BT	Dr. Chennaya Mahapatra(Assistant Professor)	Pre-requisite: Chemistry, Physics	45	Other Branch CGPA + 8.5
Chemical Engineering									
1	Chemical Engineering	5th	Material Technology	Program Elective -I	CH105201CH	Dr. M.S. Galkwad, Assistant Professor	NIL	79 (Branch Intake)	
2		5th	Industrial Economics and Management	Open Elective -I	CH105301CH	Dr. B. Mazumdar, Professor/Dr. Ananya Datta, Assistant Professor	NIL	79 (Branch Intake) +20 (Other Depts)	Based on CPI for other Depts
3		7th	Plant Design and Control	Program Elective -II	CH107201CH	Dr. Chandradhwa Nayak, Assistant Professor	NIL	79 (Branch Intake)	
4		7th	Petroleum Refining Engineering	Program Elective -II	CH107251CH	Dr. Rahul Saha, Assistant Professor / IIT-1	NIL	79 (Branch Intake)	
5		7th	Process Safety and Hazard Management	Open Elective -I	CH107301CH	Dr. Rahul Saha, Assistant Professor	NIL	79 (Branch Intake)+20 (Other Depts)	Based on CPI for other Depts
Civil Engineering									
1	Civil Engineering	5th	Project Planning and Management	Open Elective-I	CY105301CV	Dr. Ritesh Ingle, Assistant Professor	No	-	No
2		5th	Geotechnical Engineering-II	Program Elective-I	CY105201CV	Dr. L.K. Yadav, Professor	Geotechnical Engineering-I	-	No
3		5th	Modern Surveying Techniques	Program Elective-I	CY105202CV	Dr. A.D. Prasad, Assistant Professor	Surveying	-	No
4		7th	Finite Element Methods	Open Elective-I	CY107302CV	Dr. Alfia Bano, Associate Professor	Mechanics of solids	40	No
5		7th	Urban Hydrology	Open Elective-I	CY107301CV	Dr. Chandan K. Singh, Assistant Professor	Fluid Mechanics	-	No
6		7th	Irrigation & Hydraulic Structures	Program Elective-I	CY107201CV	Dr. Ishitayaj Ahmad, Associate Professor	Fluid Mechanics	50	No
7		7th	Seismic Design of Buildings	Program Elective-I	CY107202CV	Dr. Govardhan Bhat, Associate Professor	No	-	No
8		7th	AIROFCE, TUNNEL & HARBOUR ENGINEERING	Program Elective-I	CY107203CV	Dr. Sunny Dey G. Associate professor	No	-	No
9		7th	Probabilistic approaches in Civil engineering	Program Elective-II	CY107203CV	Dr. Vikas Kumar Vidyarthi, Assistant professor	No	-	No
10		7th	Advanced Design of steel structures	Program Elective-II	CY107202CV	Dr. Alfia Bano, Associate Professor	Design of Steel Structures	-	No
11		7th	Intelligent Transportation Systems	Program Elective-II	CY107202CV	Dr. Sunny Dey G. Associate professor	Highway and Railway Engg.	-	No
12		7th	Seismic Resilience in Geotechnics	Program Elective-II	CY107204CV	Dr. Ritesh Ingle, Assistant Professor	Geotechnical Engineering-I	-	No
Computer Science and Engineering									
1	CS & E	5th	Computing Algorithms and Indian Knowledge Systems	Open Elective - I	CS105304CS	Dr. Madhurashee Priyadarasin, Assistant Professor	NIL	70	ECFS
2		5th	Data Science	Open Elective -I	CS105302CS	Dr. Deepak Singh, Assistant Professor	NIL	120	CPI
3		5th	Computer Graphics	Program Elective - I	CS105203CS	Dr. Buntli K. Balabrantaray, Assistant Professor	NIL	70	CPI
4		5th	Natural Language Processing	Program Elective -I	CS105201CS	Dr. Brenda Kumar Reddy, Assistant Professor	Statistics & Probability, Basics of ML	120	CPI
5		7th	Advanced Machine Learning	Open Elective - III	CS107205CS	Dr. Karanish Mohan, Assistant Professor	AI and Machine Learning	70	CPI
6		7th	High Performance Computing	Open Elective - III	CS107306CS	Dr. Sonal Yadav, Assistant Professor	NIL	70	ECFS
7		7th	Fog and Edge Computing	Program Elective	CS107206CS	Dr. K. Jaram Nair, Assistant professor	Computer Networks	50	ECFS
8		7th	Reinforcement learning	Program Elective - IV	CS107201CS	Dr. Prateek Singh, Associate Professor	Machine Learning	50	CPI
9		7th	Advanced Computer Vision	Program Elective - IV	CS107202CS	Dr. Buntli K. Balabrantaray, Assistant Professor	Computer Vision	70	CPI
Computer Applications									
1	Computer Application	5th	Quantum Computing	Program Elective	CA405201CA	Dr. Shyam Sundar, Associate Professor	Calculus, linear algebra, probability, and familiarity with complex numbers are required. Prior exposure to quantum mechanics is helpful.	110	NIL
2			Cloud Computing	Program Elective	CA405203CA	Dr. Mihirleish Atukar, Professor	NIL	110	NIL
3			Swarm Intelligence & Evolutionary Algorithms	Program Elective	CA405204CA	Dr. Naeem Ahmad, Assistant Professor	Knowledge of complexity classes and C Programming	110	NIL
4			Mobile Computing	Program Elective	CA405206CA	Dr. Manju Pandey, Associate Professor	NIL	110	NIL
5			Pattern Recognition	Open Elective	CA405302CA	Dr. Dibakar Saha, Assistant Professor	NIL	125	Merit basis
COSINE									
1	COSINE	5th	Geomatics Engineering	Open		Dr Himanshu Gwki	NIL	25	Top 25
2		5th	Introduction to Space Photonics and Optical Systems	Open		Dr Ramya Selvaraj	NIL	25	Top 25
3		5th	Quantum Computing for Space Technology	Open		Dr Kapil Kumar Soni	NIL	25	Top 25
4		5th	Entrepreneurship Development for the Space Sector	Open		Dr Saunabh Gupta	NIL	25	Top 25
Humanities and Social Sciences									
1	HSS	5th	Inclusive Leadership and E ffective Communication	Open Elective	HS105301HS	Dr. Anoop Kumar Tiwari, Associate Professor	NIL	50	NIL
2		5th	Introduction to Linguistics	Open Elective	HS105202HS	Dr. Shashikanta Bera, Associate Professor	NIL	50	NIL
3		5th	Introduction to Sociology	Open Elective	HS105304HS	Dr. Mohita Singh, Assistant Professor	NIL	80	NIL
4		5th	An Introduction to Business Management	Open Elective	HS105304HS	Dr. Chetna Sharma Rajput, Assistant Professor	NIL	60	NIL
5		5th	Basic Entrepreneurship for Engineers	Open Elective	HS106303HS	Dr. Saurabh Gupta, Asst. Prof., and Dr Arindam Bit , Associate Professor, Bio-Med Deptt.	NIL	60	NIL
6		7th	Human Rights & Human Values	Open Elective	HS107114HS	Dr. Mohita Singh, Assistant Professor	NIL	50	NIL
Electrical Engineering									
1	Electrical Engineering	5th	Digital Electronics & Embedded Systems	Program Elective -I	EL105202EL	Dr. Varsha Singh, Assistant Professor	NIL	60	CPI
2		5th	Introduction to AI and ML	Program Elective -I	EL105203EL	Dr. Narendra D. Londhe, Professor	NIL	60	CPI
3		5th	Digital System Design	Open Elective -I	EL105303EL	Dr. Sachin Jain, Professor	NIL	120	CPI
4		7th	Smart Grid Technology	Program Elective-I	EL107203EL	Dr. Varsha Singh, Assistant Professor	Power System Analysis, Power System Protection & Switchgear	60	CPI
5		7th	Power Apparatus Systems	Program Elective-I	EL107203EL	Dr. Sauvik Koj, Assistant Professor	Power System Analysis (EL105103EL)	60	CPI
6		7th	Policy and Planning of Power System	Program Elective-II	EL107208EL	Dr. Baidyanath Bag, Assistant Professor	Generation of Electrical Energy, Electrical Power System	60	CPI
7		7th	Switched Mode Power Converter	Program Elective-II	EL107207EL	Dr. V. Haripriya, Associate Professor	Power Electronics (EL104103EL), Control System Engineering(EL100101EL)	60	CPI
8		7th	Renewable and Distributed Energy Systems	Open Elective	EL107303EL	Dr. Elsha Koley, Associate Professor	Basic Electrical Engineering	120	CPI
Electronics and Communication Engineering									
1	ECE	5th	Optoelectronics Components and Devices (OCD)	OE-1	EC105206EC	Dr. Debpraj Murchharya, Assistant Professor	Microelectronics Devices and Circuits, Electromagnetic field theory	110	CGPA
2		5th	Operating Systems	PE-1	EC105201EC	Prof. Shriya Verma, Professor (IAG)	Data Structures	110	CGPA
3		5th	Data Analytics with Python	PE-1	EC105202EC	Dr. Rupa Chakrabarty, Assistant Professor	None	110	CGPA
4		7th	Real-time embedded systems (RTES)	OE-3	EC107202EC	Dr. B. Acharya, Associate Professor	Microprocessors & Microcontrollers	110	CGPA
5		7th	Digital Image Processing (DIP)	PE-4	EC107203EC	Dr. Tushan Menpal, Associate Professor	Digital Signal Processing	110	CGPA
6		7th	Analog IC Design	PE-5	EC107206EC	Dr. Ansh Naugamshi, Associate Professor	Microelectronic Devices and Circuits, Integrated Circuits and Applications	110	CGPA
7		7th	Router Engineering	PE-5	EC107206EC	Dr. Mayur Kumar, Assistant Professor	Microewave Engineering, Analog & Digital Communication	110	CGPA
Information Technology									
1	Information Technology	5th	Information Theory and Coding	Program Elective	IT105201IT	Faculty (Detail To Be Communicated Later)	Computational Mathematics, Communication Systems	114	NA
2		5th	Digital Image Processing	Open Elective	IT105301IT	Dr. Rishi Ram Janghel, Associate Professor	Computational Mathematics, Digital and Logic Design	114	CPI+8.5 for Other Branches
3		7th	Text Mining	Program Elective	IT107201IT	Dr. Trirath Prasad Sahu, Assistant Professor	Data Mining & Analysis	114	NA
4		7th	Quantum Machine Learning	Program Elective	IT107205IT	Dr. Kapil Kumar Soni, Assistant Professor	Probability & Linear Algebra Quantum Computing Machine Learning	114	NA
5		7th	Neural Networks and Fuzzy Logic	Open Elective	IT107301IT	Dr. Satya Prakash Sahu, Associate Professor	Mathematics, Discrete Structures, Fundamental of Computing	114	CPI+8.5 for Other Branches
6		7th	Computer Vision	Open Elective	IT107303IT	Dr. Suvenidh Rup, Associate Professor	Mathematics, Data Mining, Digital Image Processing	114	CPI+8.5 for Other Branches
Mechanical Engineering									
1	Mechanical Engineering	5th	Fluid Mechanics II-Fluid Machinery	PE-I	ME105204ME	Prof. G. K Sahu (Associate Prof.)	NIL	60	CPI
2		5th	Industrial Engineering & Management	PE-I	ME105204ME	Dr. Mihul Singh Rajput (Associate Prof.)	NIL	60	CPI
3		5th	Introduction to Aerospace Engineering	PE-I	ME105205ME	Dr. N.V Sweeny Nadia Professor	NIL	60	CPI
4		5th	Dynamics and Vibration	PE-II	ME105212ME	Dr. Rajana Suresh Kumar (Associate Prof.)	Physics, Engineering Mechanics and Kinematics of Machines	60	CPI
5		5th	Measurement and Control	PE-II	ME105212ME	Dr. Raj Kumar Sahu (Associate Prof.)	Basic Electrical and Mechanical Engineering/Mechanics, Engineering Drawing	60	CPI
6		5th	Composite Materials and Mechanics	OE-I	ME105302ME	Dr. S Srinivasu (Associate Prof.)	NIL	80	CPI
7		5th	Smart Manufacturing	OE-I	ME105304ME	Dr. Mohan Kumar Prabhat (Associate Prof.)	NIL	80	CPI
8		7th	Finite Element Method	PE-V	ME107204ME	Dr. S. Bhowmik (Professor)	NIL	80	CPI
9		7th	Computational Fluid Dynamics	PE-V	ME107204ME	Dr. Shashi Kant Verma (Assistant Prof.)	NIL	80	CPI
10		7th	Air Pollution Control	OE-III	ME107301ME	Dr. S. S. Sonu (Professor)	Fluid Mechanics	80	CPI
11		7th	Industry 5.0 for Engineers	OE-III	ME107304ME	Dr. Sanjeev Kumar (Assistant Prof.)	NIL	80	CPI
12		7th	Power Plant Engineering	PE-VI	ME107212ME	Dr. R.K Yadav (Professor)	Thermodynamics, IC Engines, Fluid Mechanics	80	CPI
13		7th	Energy Conversion System	PE-VI	ME107211ME	Dr. Nisha Nataran (Associate Prof.)	Applied Thermodynamics, Fluid Mechanics	80	CPI
14		7th	Alternative Fuels and emission control in internal combustion engines	PE-VI	ME107214ME	Dr. S. S. Sonu (Professor)	IC Engines	80	CPI
Mining Engineering									
1	Mining Engineering	5th	Mine Hazards and Rescue	Program	ME105201ME	Dr. M. D. Patel, Associate Professor			
2		5th	Newel Methods of Mining	Program	ME105202ME	Dr. Prudhvi Raju Gadepati, Assistant Professor			
3		5th	Remote Sensing & Geographic Information Systems	Open	ME105301ME	Dr. R. K. Jade, Associate Professor	NIL	117	The course is offered only to Mining & Civil
4		7th	Mine Legislation & Safety-II	Program	ME107201ME	Dr. A. V. Dash, Assistant Professor			

5	Mining Engg	7th	Mine Closure Planning	Program	M10720296	Dr. Vineeth Balakrishnan, Assistant Professor			
6		7th	Mine Economics	Program	M10720296	Dr. R. K. Jade, Associate Professor			
7		7th	Mine Systems Engineering	Program	M10720296	Dr. P. Y. Dhokane, Professor			
8		7th	Bulk Material Handling	Open	M10730246	Dr. R. K. Jade, Associate Professor	Nil	117	The course is offered only to Mining, Mechanical & Chemical
9		7th	Climate Change & Carbon Management	Open	M10730296	Dr. Vineeth Balakrishnan, Assistant Professor	Nil	117	The course is offered only to Mining, Chemical, Metallurgy & Civil
Metallurgical & Material Engineering									
1	Metallurgical and Material Engg	5th	Special Steels and Alloys	Program Elective-1	M41050201M4	Dr. Deependra Singh, Asst Prof			
2		5th	Light Metals and Alloys		M41050201M4	Dr. Bhargavi Arora, Asst Prof			
3		5th	Non-Destructive Testing	Open Elective	M41050301M4	Dr. R. Bhaskar Naik, Asst Asst Prof			
4		5th	Powder Metallurgy		M41050302M4	Dr. Abhishek Sharma			
5		7th	Introduction to Electrical, Magnetic and Optical Materials	Program Elective-1	M41072019M4	Dr. Abhishek Sharma			
6		7th	Additive Manufacturing of Materials	Program Elective-2	M41072029M4	Dr. Neha Gupta, Asst Prof			
7		7th	X-ray Diffraction and Electron Microscopy	Open Elective	M41073019M4	Dr. Deependra Singh, Asst Prof			
Physics									
1	Physics	5th	Physics of Robotics	Open	PH021102PH	Dr. K. S. Dija (Assistant Professor)	Mechanics and Mathematics	50	CGPA >7.5
2		5th	Laser Science and Technology	Open	PH021103PH	Dr. Ayush Khare (Professor)	Introduction to Laser	50	CGPA >7.5
Chemistry									
1	Chemistry	VIII	Industrial Materials	Open		Dr. S. P. Mahapatra, Professor	NA	60	GP: 7.5
2		VIII	Sustainable Solid State Materials	Open		Dr. K. A. Siddiqui, Associate Professor	NA	60	GP: 7.5