

Visvesvaraya National Institute of Technology, Nagpur

Registration Form for B. Tech.

Enrollment for Odd Semester for Session 2017-18 (Winter-2017)

Name :	_____	Name of Department :	_____
ID No. :	_____	Enrolment No. :	_____
Contact No. :	_____	SBI A/c No. :	_____
Current Address:	_____	Name of Faculty Advisor :	_____
E-mail :	_____	Scholarship :	_____
		Category (if any) :	_____

Ist semester B Tech

(Instruction: please Tick \sqrt appropriately and properly.)

Ist Semester

Applicable for sections – L, R, S, T, U					
<i>Physics Stream</i>					
Course Code	Course Title	Credits	Cat.	Slot	Selection
AML 151	Engineering Mechanics	4	ES		Yes / No
AMP 151	Engineering Mechanics	1	ES		Yes / No
HUL 101	Communication Skills	3	HM		Yes / No
MAL 101	Mathematics I	4	BS		Yes / No
MEL 103	Engineering Drawing	3	ES		Yes / No
MEP 103	Engineering Drawing	1	ES		Yes / No
PHL 101	Physics	4	BS		Yes / No
PHP 101	Physics	1	BS		Yes / No
SAP 101	Health Information and Sports-I	0	Audit		Yes / No
	Total	21			

Applicable for sections –N,W, X, Y, Z					
<i>Chemistry Stream</i>					
Course Code	Course Title	Credits	Cat.	Slot	Selection
CHL 101	Chemistry	4	BS		Yes / No
CHP 101	Chemistry	1	BS		Yes / No
CSL 101	Computer Programming	4	ES		Yes / No
EEL 101	Electrical Engineering	4	ES		Yes / No
EEP 101	Electrical Engineering	1	ES		Yes / No
HUL 102	Social Science	2	HM		Yes / No
MAL 101	Mathematics I	4	BS		Yes / No
MEP 101	Workshop	2	ES		Yes / No
SAP 101	Health Information and Sports-I	0	Audit		Yes / No
	Total	22			

Signature of Student

Date:

Signature of Faculty Advisor

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	Category (if any) :

Chemical Engineering

(Instruction: please Tick appropriately and properly.)

IIIrd Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
CML 201	Chemical Process Calculations	4	DC	B	YES/NO
CML 202	Fluid Mechanics	4	DC	H	YES/NO
CML 203	Mechanical Operations	3	DC	A	YES/NO
CML 204	Chemical Engineering Thermodynamics – I	3	DC	F	YES/NO
CHL 263	Organic Chemistry and Synthesis	3	DC	G	YES/NO
CMP 204	Technical Analysis	1	DC	F	YES/NO
CHP 263	Organic Chemistry and Synthesis	1	DC	G	YES/NO
Any One					
CML 231	Material Science and Engineering	3	DE	C	YES/NO
MAL 203	Numerical Methods & Computation	3	DE	D	YES/NO
			OC/HM		YES/NO

Vth Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
CML 301	Mass Transfer II	3	DC	C	YES/NO
CML 302	Chemical Process Modeling and Simulation	3	DC	G	YES/NO
CML 303	Process Control and Instrumentation	3	DC	F	YES/NO
CML 304	Chemical Reaction Engineering II	3	DC	D	YES/NO
CMP 304	Chemical Reaction Engineering II	1	DC	D	YES/NO
CMP 322	Heat Transfer	1	DC	G	YES/NO
Any Two					
CML 383	Advance Heat Transfer	3	DE	E	YES/NO
CML385	New and Renewable Energy Engg.	3	DE	B	YES/NO
CML 389	Chemical Informatics	3	DE	H	YES/NO
			OC/HM		YES/NO

VIIth Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
CMD 401	Project Phase I	4	DC	-	YES/NO
CML 403	Plant Design and Economics	6	DC	G	YES/NO
CMP 401	Mass Transfer II	2	DC	B	YES/NO
CMP 453	Design Lab-I	2	DC	C	YES/NO
CML 425	Membrane Technology	6	DE	H	YES/NO
CML 426	Polymer Processing	6	DE	F	YES/NO
CML 427	Advanced Separation Process	6	DE	E	YES/NO
CML 428	CFD for Chemical Engineers	6	DE	D	YES/NO
CML 435	Computer Aided Design in Chemical Engineering	6	DE	C	YES/NO
CML 529	Optimization Techniques in Process Design	6	DE	A	YES/NO
CML 537	Sustainable Engineering	6	DE	B	YES/NO
CMP 266	Engineering Drawing & Graphics	2	DE	G	YES/NO
CMP 427	Advanced Separation Process	2	DE	F	YES/NO
CMP 433	Environmental Engineering	2	DE	H	YES/NO
CMP 434	Industrial Waste Treatment	2	DE	D	YES/NO
	Total				

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	Category (if any) :

Civil Engineering

(Instruction: please Tick appropriately and properly.)

IIIrd Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
CEL 201	Soil Mechanics	3	DC	G	YES/NO
CEL 204	Building Materials & Technology	3	DC	F	YES/NO
CEL 207	Surveying I	3	DC	E	YES/NO
CEP 201	Soil Mechanics	1	DC	G	YES/NO
CEP 204	Building Materials & Technology	1	DC	F	YES/NO
CEP 207	Surveying I	1	DC	E	YES/NO
AML 262	Strength of Materials	3	DC	A	YES/NO
AMP 262	Strength of Materials	1	DC	B	YES/NO
CEL 208	Hydrology	3	DE	H	YES/NO
CEL220	Environmental Studies	3	DE	B	YES/NO
MAL 203	Numerical Methods & Computation	4	DE	D	YES/NO
	4DC+1DE+1OC				

Vth Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
CEL 303	Environmental Engineering II	4	DC	D	YES/NO
CEL 312	Transportation Engineering	3	DC	E	YES/NO
CEL 313	Concrete Engineering	3	DC	G	YES/NO
CEP 312	Transportation Engineering	1	DC	E	YES/NO
CEP 313	Concrete Engineering	1	DC	G	YES/NO
AML 361	Structural Analysis	3	DC	C	YES/NO
AMP 361	Structural Analysis	1	DC	C	YES/NO
	(Any Two)				
CEL 315	Fluid Mechanics	3	DE	B	YES/NO
CEL 423	Introduction to soil Dynamics	3	DE	F	YES/NO
CEL404	Railway, Airports, Ports and Harbour Engineering	3	DE	H	YES/NO
CEP 315	Fluid Mechanics	1	DE	B	YES/NO
			OC & HM		YES/NO

VIIth Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
CED 401	Project Phase I	4	DC	-	YES/NO
CEL 307	Project Planning & Management	6	DC	D	YES/NO
CEL408	Construction site Administration and Control	6	DE	C	YES/NO
CEL 409	Quality and Safety in Construction	6	DE	H	YES/NO
CEL423	Introduction to soil Dynamics	6	DE	F	YES/NO
CEL436	Computer Aided Design and Analysis	6	DE	G	YES/NO
CEL 442	Geotechnical Investigation of Construction Project	6	DE	A	YES/NO
CEL 552	Construction Contracts and Specification	6	DE	C	YES/NO
CEP436	Computer Aided Design and Analysis	2	DE	G	YES/NO
AML 461	Advanced Structural Analysis	8	DE	E	YES/NO
AML 462	Elements of Structural Dynamics and Earthquake Engg.	6	DE	G	YES/NO
		6	OC & HM		YES/NO
	2DC+5DE/OC/HM				

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Computer Science & Engineering

(Instruction: please Tick appropriately and properly.)

IIIrd Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
CSL 202	Discrete Mathematics and Graph Theory	4	DC	H	YES/NO
CSL 213	Data Structures and Program Design I	5	DC	B	YES/NO
CSL 226	Digital Circuits and Microprocessor	5	DC	G	YES/NO
CSP 201	Software Lab – I	2	DC	-	YES/NO
MAL 208	Probability Theory and Statistical Methods	4	DC	E	YES/NO
CSL 224	Introduction to Web Programming	4	DE	D	YES/NO
DC5+DE1= Credits 24		24			

Vth Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
CSL 307	Theory of Computation	3	DC	C	YES/NO
CSL 309	Operating Systems	4	DC	D	YES/NO
CSL 321	Design & Analysis of Algorithms	4	DC	F	YES/NO
CSP 300	Software Lab – III	2	DC	-	YES/NO
CSL 303	Introduction to OO Methodology	4	DE	A	YES/NO
CSL 304	Neuro fuzzy Techniques	4	DE	G	YES/NO
DC-4;DE-2					
Total					

VIIth Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
CSD 401	Project Phase I	4	DC	D	YES/NO
CSP 438	Software Lab – III	2	DC	A	YES/NO
CSL 408	Topics in Embedded Systems	6	DE	C	YES/NO
CSL 412	Artificial Intelligence	8	DE	E	YES/NO
CSL 431	Introduction to Cloud Computing	6	DE	H	YES/NO
CSL 442	Image & Video Processing	8	DE	B	YES/NO
CSL 523	Advanced Computer Architecture	6	DE	G	YES/NO
CSL 530	Topics in Bioinformatics	6	DE	F	YES/NO
		6	OC/HM		YES/NO
DC:2; DE +OC/HM: (6 DE or 1 OC+5 DE)					

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Electrical & Electronics Engineering

(Instruction: please Tick \sqrt appropriately and properly.)

IIIrd Semester

Course Code	Course	Credits	Cat.	Slot	Selection
EEL 201	Network Theory	4	DC	B	YES/NO
EEL 202	Signals and Systems	4	DC	F	YES/NO
EEL 204	Measurement and Instrumentation	3	DC	D	YES/NO
EEP 201	Network Theory	1	DC	B	YES/NO
EEP 204	Measurement and Instrumentation	1	DC	F	YES/NO
ECL 206	Electronics Devices and Circuits	3	DC	G	YES/NO
ECP 206	Electronics Devices and Circuits	1	DC	G	YES/NO
MAL 201	Integral Transform and PDE	3	DC	C	YES/NO
Any One					
EEL206	Electromagnetics	3	DE	E	YES/NO
PHL202	Introduction to Material Science	3	DE	H	YES/NO
DC5 + DE1 = 23					

Vth Semester

Course Code	Course Title	Credits	Cat	Slot	Selection
EEL 302	Electrical Machine-II	3	DC	H	YES/NO
EEL 305	Control System -I	4	DC	C	YES/NO
EEL 307	Electrical Machine Design	3	DC	G	YES/NO
EEL 325	Electrical Power System-II	4	DC	D	YES/NO
EEL 326	Industrial Automation	3	DC	B	YES/NO
EEP 302	Electrical Machine-II	1	DC	H	YES/NO
EEP 305	Control System -I	1	DC	C	YES/NO
EEP 326	Industrial Automation	1	DC	B	YES/NO
EEL 327	Electrical Power Distribution System	3	DE	F	YES/NO
DC5+DE1					

VIIth Semester

Course Code	Course Title	Credits	Cat	Slot	Selection
EED 401	Project Phase I	4	DC	-	YES/NO
EEL 402	High Voltage Engineering	6	DC	C	YES/NO
EEL 403	Switchgear & Protection	6	DC	H	YES/NO
EEP 402	High Voltage Engineering	2	DC	C	YES/NO
EEP 403	Switchgear & Protection	2	DC	H	YES/NO
EEL 407	Electrical Power Distribution System	6	DE	F	YES/NO
EEL 409	HVDC	6	DE	D	YES/NO
EEL 417	Energy Conservation & Audit	6	DE	E	YES/NO
EEL 421	Power Quality	6	DE	G	YES/NO
EEL 410	Advanced Control Theory	6	DE	B	YES/NO
DC3+DE					

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Electronics & Communication Engineering

(Instruction: please Tick appropriately and properly.)

IIIrd Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
ECL 201	Electronic Devices	4	DC	E	YES/NO
ECL 202	Digital Logic Design	3	DC	B	YES/NO
ECP 201	Electronic Devices	1	DC	E	YES/NO
ECP 202	Digital Logic Design	1	DC	B	YES/NO
EEL 209	Linear Network Theory	3	DC	G	YES/NO
MAL 201	Integral Transforms & PDE	4	DC	C	YES/NO
PHL 203	Electronic Materials	3	DC	H	YES/NO
DC5 = Credits 19					

Vth Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
ECL 204	Measurement and Instrumentation	3	DC	D	YES/NO
ECL 301	Analog Communication	4	DC	B	YES/NO
ECL 401	Hardware Description Languages	3	DC	C	YES/NO
ECL 405	Wave Guide and Antenna	3	DC	H	YES/NO
ECP 204	Measurement and Instrumentation	1	DC	D	YES/NO
ECP 301	Analog Communication	1	DC	B	YES/NO
ECP 401	Hardware Description Languages	1	DC	C	YES/NO
EEL 310	Control Systems	3	DC	G	YES/NO
EEP 310	Control Systems	1	DC	G	YES/NO
ECL 415	Electronics System Design	3	DE	A	YES/NO
ECL 426	Advanced Microprocessor and Interfacing	3	DE	F	YES/NO
CSL 311	Computer Architecture & Organization	3	DE	E	YES/NO

VIIth Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
ECD 401	Project Phase I	4	DC	-	YES/NO
ECL 402	Communication Net and Net Applications	6	DE	G	YES/NO
ECL 404	RF & Microwave Engineering	6	DE	E	YES/NO
ECL 407	Radar Engineering	6	DE	B	YES/NO
ECL 410	Satellite Communication	6	DE	D	YES/NO
ECL 411	Digital Image Processing	6	DE	F	YES/NO
ECL 412	Advanced Digital Signal Processing	6	DE	C	YES/NO
ECL 434	Wireless Digital Communication	6	DE	H	YES/NO
ECP 402	Communication Net and Net Applications	2	DE	G	YES/NO
ECP 412	Advanced Digital Signal Processing	2	DE	C	YES/NO
		6	OC/HM		YES/NO

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	Category (if any) :

Mechanical Engineering

(Instruction: please Tick appropriately and properly.)

IIIrd Semester

Course Code	Course Title	Cr	Cat.	Slot	Selection
MEL 201	Theory of Machines -I	4	DC	A	YES/NO
MEL 203	Engineering Thermodynamics	4	DC	B	YES/NO
MEL 204	Engineering Metallurgy	3	DC	E	YES/NO
MEL 206	Solid Mechanics	4	DC	F	YES/NO
MEP 204	Engineering Metallurgy	1	DC	E	YES/NO
MAL 201	Integral Transform & PDE	4	DC	C	YES/NO
DC 5 = Credits 20					

Vth Semester

Course Code	Course Title	Cr	Cat.	Slot	Selection
MEL 302	Heat Transfer	4	DC	G	YES/NO
MEL 305	Manufacturing Process II	3	DC	F	YES/NO
MEL 307	Fluid Mechanics	3	DC	A	YES/NO
MEL 308	Energy Conversion II	3	DC	H	YES/NO
MEL 313	Machine Drawing	2	DC	C	YES/NO
MEP 302	Thermal Lab	1	DC	G	YES/NO
MEP 305	Manufacturing Process II	1	DC	F	YES/NO
MEP 307	Fluid Mechanics	1	DC	A	YES/NO
MEP 313	Machine Drawing	1	DC	H	YES/NO
MEL 416	Industrial Robotics	3	DE	D	YES/NO
MEL 421	Computational Methods in Engg.	3	DE	D	YES/NO
DC5+DE					

VIIth Semester

Course Code	Course Title	Cr	Cat.	Slot	Selection
MED 401	Project Phase I	4	DC	-	YES/NO
MEL 311	Metrology & Quality Assurance	6	DC	E	YES/NO
MEL 410/ 430/ 432	CAD/ Adv. I.C. Engine / Computer Graphics and Solid Modelling	6	DE	F	YES/NO
MEL 439/ 435 /425 /412/ 437	Product Design and Development /CFD / Reliability & Maintenance Engg / Air Conditioning / Composite Materials	6	DE	C/ G	YES/NO
MEL 418 /428 /419/ 440	Adv. Stress Analysis / Machine Tool Design / Energy Management / Machine Vision & its Application	6	DE	H	YES/NO
MEL 401 /403	Control Systems / Operations Research	6	DE	B	YES/NO
MEP 311	Metrology & Quality Assurance	2	DC	E	YES/NO
MEP 410/ 430/ 432	CAD/ Adv. I.C. Engine / Computer Graphics and Solid Modelling	2	DE	F	YES/NO
		6	OC/HM		YES/NO
DC2+DE					

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Metallurgical & Materials Engineering

(Instruction: please Tick appropriately and properly.)

IIIrd Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
MML 201	Introduction to Material Science and Engineering	4	DC	C	YES/NO
MML 203	Engineering Physical Metallurgy	3	DC	E	YES/NO
MML 224	Testing of Materials	3	DC	H	YES/NO
MML 212	Mineral Dressing	3	DC	G	YES/NO
MMP 203	Engineering Physical Metallurgy	1	DC	F	YES/NO
MMP 224	Testing of Materials	1	DC	H	YES/NO
MMP 212	Mineral Dressing	1	DC	G	YES/NO
MAL 203	Numerical Methods & Computation	4	DC	D	YES/NO
	Total	20			

Vth Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
MML 371	Metal Working Process	4	DC	F	YES/NO
MML 372	Principle of Non Ferrous Extraction Metallurgy	3	DC	G	YES/NO
MML 373	Ferrous Extraction Metallurgy	3	DC	D	YES/NO
MMP 372	Principle of Non Ferrous Extractive Metallurgy	1	DC	G	YES/NO
Group –II (Any one)					
MML 378	Wear of Engineering Materials	3	DE	H	YES/NO
MMP 378	Wear of Engineering Materials	1	DE	H	YES/NO
PHL 305	Electrical & Magnetic Materials	3	DE	H	YES/NO
PHP 306	Electrical and Electronic Materials	1	DE	H	YES/NO
Group –II (Any Two)					
MML 351	Process Optimization	3	DE	A	YES/NO
MML 368	Industrial Metallurgy	3	DE	C	YES/NO
MML 388	Chemical Characterization of Materials	3	DE	B	YES/NO
MML 390	Bio Materials	3	DE	E	YES/NO

VIIth Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
MMD 401	Project Phase I	4	DC	--	YES/NO
MML 471	Structural Metallurgy	6	DC	D	YES/NO
MML 472	Environmental Degradation	6	DC	G	YES/NO
MMP 471	Structural Metallurgy	2	DC	D	YES/NO
MMP 472	Environmental Degradation	2	DC	G	YES/NO
MML 379	Non Destructive Testing	6	DE	F	YES/NO
MML 443	Metallurgy of Nuclear Materials	6	DE	A	YES/NO
MML 477	Secondary & Special Steel Making	6	DE	H	YES/NO
MML 479	Selection of Materials	6	DE	B	YES/NO
MML 480	Fracture Mechanics	6	DE	E	YES/NO
MML 474	X-Ray Diffraction & Electron Microscopy	8	DE	C	YES/NO

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Mining Engineering (Admission Year 2015 onwards)

(Instruction: Please Tick appropriately and properly)

IIIrd Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
MNL 201	Introduction to Mining Technology	3	DC	G	YES/NO
MNL 291	Mechanical Engineering	3	DC	E	YES/NO
MNL 202	Mine Surveying	4	DC	F	YES/NO
MNL 204	Mining Machinery- I	4	DC	D	YES/NO
MNP 202	Mine Surveying	1	DC	F	YES/NO
MNP 204	Mining Machinery-I	1	DC	D	YES/NO
CEL 284	Mining Geology	3	DC	H	YES/NO
CEP 284	Mining Geology	1	DC	H	YES/NO
		3	OC/ HM		YES/NO
	DC5+OC/H M 1 = 23				

Vth Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
MNL 205	Mine Ventilation & Climate Engineering	4	DC	E	YES/NO
MNL 206	Rock Engineering	4	DC	D	YES/NO
MNL 301	Mining Machinery II	3	DC	B	YES/NO
MNP 205	Mine Ventilation & Climate Engineering	1	DC	E	YES/NO
MNP 206	Rock Engineering	1	DC	D	YES/NO
MNL 424	Advanced Mine Surveying	3	DE	G	YES/NO
MNL 425	Mass Production Technology for Underground Coal	3	DE	F	YES/NO
MML 291	Mineral Processing / Dressing	3	DE	H	YES/NO
		6	OC/HM		YES/NO
	Total				

VIIth Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
MND 401	Project Phase I	4	DC	-	YES/NO
MNL 480	Surface Mine Environment	6	DC	H	YES/NO
MNL 483	Mining Economics	6	DC	C	YES/NO
MNL 484	Computer Applications in Mining	6	DC	E	YES/NO
MNP 373	Mine Visits	2	DC	D	YES/NO
MNP 480	Surface Mine Environment	2	DC	H	YES/NO
MNP 484	Computer Applications in Mining	2	DC	E	YES/NO
MNL 476	Rock Slope Engineering	6	DE	F	YES/NO
MNL 481	Mine System Engineering	6	DE	G	YES/NO
		6	OC/HM		YES/NO
	Total				

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