

Visvesvaraya National Institute of Technology, Nagpur

Registration Form for M. Tech.

Enrollment for Even Semester for Session 2017-18 (Spring i.e. Jan-May 2018)

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) : _____

Structural Engineering

(Instruction: To be filled in **Blue Ink** & Capital letters only, please Tick \checkmark appropriately and properly.)

IIIrd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
AML 524	Design of Advanced Reinforced Concrete Structures	3	DC	H	Yes/No
AMP 524	Design of Advanced Reinforced Concrete Structures	1	DC	H	Yes/No
AML 525	Design of Advanced Steel Structures	3	DC	C	Yes/No
AMP 525	Design of Advanced Steel Structures	1	DC	C	Yes/No
AMP 530	Technical writing and presentation	1	DC	E	Yes/No
	<u>Any Three courses</u>				
AML 549	Finite Element Method	3	DE	B	Yes/No
AML 555	Analysis and Design of Machine Foundation	3	DE	F	Yes/No
AML 556	Analysis and Design of Multistoried Buildings	3	DE	A	Yes/No
AML 543	Earthquake Dynamics	3	DE	G	Yes/No
AML 551	Analysis and Design of Foundations	3	DE	D	Yes/No
Minimum credits to be acquire 18					

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
AMD 502	Project Phase – II	9	DC	-	Yes/No
Total		9			

Signature of Student

Date:

Signature of Faculty Advisor

Date:

A student must **register the backlog courses first** and then register for the current semester courses. A student can register for maximum **SIX THEORY** and **FOUR PRACTICAL** (including project) as credit courses, and maximum one audit course **including all backlog course(s), if any.**

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Structural Dynamics & Earthquake Engineering

(Instruction: To be filled in **Blue Ink** & Capital letters only, please Tick \surd appropriately and properly.)

IIInd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
AML 527	Earthquake Resistant Design of RC Buildings	3	DC	H	Yes/No
AMP 527	Earthquake Resistant Design of RC Buildings	1	DC	H	Yes/No
AML 528	Earthquake Resistant Design of Steel Buildings	3	DC	C	Yes/No
AMP 528	Earthquake Resistant Design of Steel Buildings	1	DC	C	Yes/No
AMP 530	Technical writing and presentation	1	DC	E	Yes/No
Any Three Courses					
AML 549	Finite Element Method	3	DE	B	Yes/No
AML 555	Analysis and Design of Machine Foundation	3	DE	F	Yes/No
AML 556	Analysis and Design of Multistoried Buildings	3	DE	A	Yes/No
AML 543	Earthquake Dynamics	3	DE	G	Yes/No
AML 551	Analysis and Design of Foundations	3	DE	D	Yes/No
Minimum credits to be acquire 18					

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
AMD 502	Project Phase – II	9	DC	-	Yes/No
Total		9			

Signature of Student

Date:

Signature of Faculty Advisor

Date:

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		Category (if any) :	_____

Chemical Engineering

(Instruction: To be filled in **Blue Ink** & Capital letters only, please Tick \sqrt appropriately and properly.)

IIInd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CML 505	Industrial Process Control	3	DC	C	Yes/No
CML 506	Process Analysis, Simulation and Design	3	DC	D	Yes/No
CML 507	Novel Separation Processes	3	DC	E	Yes/No
CMP 510	Advance Separation	1	DC	E	Yes/No
	Any Two Theory & One Lab				
CML 524	Polymer Science and Engineering	3	DE	B	Yes/No
CML 525	Catalysis: Theory and Practice	3	DE	H	Yes/No
CML 535	Advanced Nanotechnology	3	DE	F	Yes/No
CMP 542	Advance Process Simulation	1	DE	F	Yes/No
Minimum credits to be acquire 17					

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CMD 502	Project Phase – II	9	DC	C	Yes/No
Credit Requirement – 9 (1 DC)					

Signature of Student

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Signature of Faculty Advisor

Date:

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E-mail :	_____	Scholarship :	_____
		Category (if any) :	_____

Environmental Engineering

(Instruction: To be filled in **Blue Ink** & Capital letters only, please Tick $\sqrt{\quad}$ appropriately and properly.)

IIInd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CEL 505	Municipal Solid Waste Management	3	DC	G	Yes/No
CEL 540	Industrial Waste Water Treatment, Recycle & Reuse	3	DC	E	Yes/No
MAL 407	Statistics and Optimization Techniques	3	DC	A	Yes/No
	Any Three courses				
CEL 510	Environmental Management	3	DE	B	Yes/No
CEL 511	Environmental Engineering Systems Optimization	3	DE	F	Yes/No
CEL 512	Environmental Biotechnology	3	DE	H	Yes/No
CEL 542	Introduction to Climate Change	3	DE	D	Yes/No
Credit Requirement – 18 (3 DC + 3 DE)					

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CED 502	Project Phase – II	9	DC	-	Yes/No
Credit Requirement – 9 (1 DC)		9			

Signature of Student

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Category (if any) : _____

Construction Technology & Management

(Instruction: To be filled in Blue Ink & Capital letters only, please Tick \sqrt appropriately and properly.)

IIInd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CEL 553	Construction Equipments & Methods	3	DC	E	Yes/No
CEL 554	Project Appraisal & Construction Finance	4	DC	F	Yes/No
	Any Three courses				
CEL 425	Financial and Business Management	3	DE	B	Yes/No
CEL 551	Advanced Construction Materials	3	DE	G	Yes/No
CEL 561	Risk Analysis & Decision Making	3	DE	H	Yes/No
CEL 562	Sustainable Construction Engineering	3	DE	D	Yes/No
CEL 510	Environmental Management	3	DE	B	Yes/No
CEL 542	Introduction to Climate Change	3	DE	D	Yes/No
Credit Requirement – 16 (3 DC + 3 DE)					

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CED 502	Project Phase – II	9	DC	-	Yes/No
Credit Requirement – 9 (1 DC)		9			

Signature of Student

Date:

Signature of Faculty Advisor

Date:

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E-mail : _____	Scholarship : _____
	Category (if any) : _____

Transportation Engineering

(Instruction: To be filled in **Blue Ink** & Capital letters only, please Tick \surd appropriately and properly.)

IIInd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CEL 572	Urban Transport Planning	3	DC	G	Yes/No
CEL 573	Designing of Highway Structures	3	DC	F	Yes/No
CEL 585	Pavement Analysis and Design	3	DC	E	Yes/No
CEP 585	Pavement Analysis and Design	1	DC	E	Yes/No
Any Three courses					
CEL 425	Financial and Business Management	3	DE	B	Yes/No
CEL 510	Environmental Management	3	DE	B	Yes/No
CEL 542	Introduction to Climate Change	3	DE	D	Yes/No
CEL 562	Sustainable Construction Engineering	3	DE	D	Yes/No
CEL 581	Design of Under Ground Structures	3	DE	C	Yes/No
AML 549	Finite Element Method	4	DE	B	Yes/No
MAL 407	Statistics and Optimization Techniques	3	DE	A	Yes/No
Credit Requirement – (3 DC + 3 DE) = 19 / 20					

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CED 502	Project Phase – II	9	DC	-	Yes/No
Credit Requirement – 9 (1 DC)		9			

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Signature of Faculty Advisor

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		Category (if any) :	_____

Water Resources Engineering

(Instruction: To be filled in Blue Ink & Capital letters only, please Tick \sqrt appropriately and properly.)

IIInd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CEL 414	Water Distribution Systems	4	DC	C	Yes/No
CEL 514	Applied Surface Hydrology	3	DC	G	Yes/No
CEL 528	Water Resources Systems	3	DC	E	Yes/No
CEL 510	Environmental Management	3	DE	B	Yes/No
CEL 525	Earthen Dams	4	DE	F	Yes/No
CEL 530	Water Power Engineering	3	DE	B	Yes/No
CEL 542	Introduction to Climate Change	3	DE	D	Yes/No
CEL 561	Risk Analysis and Decision Making	3	DE	H	Yes/No
Credit Requirement – 19/20 (3 DC + 3 DE)					

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CED 502	Project Phase – II	9	DC	-	Yes/No
Credit Requirement – 9 (1 DC)		9			

Signature of Student

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E-mail :	_____	Scholarship :	_____
		Category (if any) :	_____

Computer Science & Engineering

(Instruction: To be filled in Blue Ink & Capital letters only, please Tick \sqrt appropriately and properly.)

IIInd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CSL 519	Distributed Systems	4	DC	G	Yes/No
CSL 520	Advanced DBMS	4	DC	E	Yes/No
CSL 528	Cryptography and Information Security	3	DC	F	Yes/No
CSP 504	Software Lab II	2	DC	-	Yes/No
	Any One course				
CSL 508	Machine Learning	3	DE	C	Yes/No
CSL 516	Soft Computing Techniques	3	DE	A	Yes/No
Credits DC= 13, DE= 3		16/17			

IV th Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CSD 502	Project Phase – II	9	DC	-	Yes/No
Total		9			

Signature of Student

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	Category (if any) : _____

V L S I Design

(Instruction: To be filled in **Blue Ink** & Capital letters only, please Tick \surd appropriately and properly.)

IIIrd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
ENL 518	Analog IC Design	4	DC	E	Yes/ No
ENL 520	Nano Electronics	4	DC	D	Yes/ No
Any Three Theory & Two Labs					
ENL 504	VLSI System Design	3	DE	C	Yes/ No
ENL 522	MEMS AND NEMS	3	DE	A	Yes/No
ENL 542	CMOS RF Design	3	DE	B	Yes/No
ENL 546	Embedded Systems	3	DE	B	Yes/ No
ENP 522	MEMS AND NEMS	1	DE	A	Yes/ No
ENP 542	CMOS RF Design	1	DE	B	Yes/No
ENP 546	Embedded Systems	1	DE	B	Yes/No
Total DC- 11 + DE- 6/7 = 17/18					

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
END 502	Project Phase – II	9	DC	A	Yes/ No
Total		9			

Signature of Student

Date:

Signature of Faculty Advisor

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	Category (if any) : _____

Communication Systems Engineering

(Instruction: To be filled in **Blue Ink** & Capital letters only, please Tick \checkmark appropriately and properly.)

IIInd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
ECL 409	Radio Frequency Circuit Design	3	DC	G	Yes/ No
ECL 516	Converged Communication Networks	3	DC	A	Yes/ No
ECL 528	Detection and Estimation in Wireless System	3	DC	D	Yes/ No
ECP 519	Communication System Lab – II	1	DC	C	Yes/ No
	Any Three Theory				
ECL 406	Mobile Communication Systems	3	DE	H	Yes/ No
ECL 419	Wireless Sensor Networks	3	DE	C	Yes/ No
ECL 427	Broadband Communication	3	DE	E	Yes/ No
ECL 511	Non Linear System Modelling	3	DE	B	Yes/ No
ECL 526	Computer Vision	3	DE	F	Yes/ No
ECP 409	Radio Frequency Circuit Design (Optional)	1	DE	G	Yes/ No
	Total				

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
ECD 502	Project Phase – II	9	DC	A	Yes/ No
	Total	9			

Signature of Student

Date:

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		Category (if any) :	_____

Integrated Power Systems

(Instruction: To be filled in Blue Ink & Capital letters only, please Tick \sqrt appropriately and properly.)

IIInd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
EEL 507	Power System Dynamics – II	3	DC	H	Yes/No
EEL 512	Distributed Generation	3	DC	D	Yes/No
EEL 526	Analysis of FACTS Devices	3	DC	G	Yes/No
EEP 507	Power System Dynamics	1	DC	H	Yes/No
EEP 512	Distributed Generation	1	DC	D	Yes/No
EEP 526	Analysis of FACTS Devices	1	DC	G	Yes/No
EEL 531	Microcontrollers Digital Signal Processors	3	DE	F	Yes/No
Credits DC-12 + DE-3=Total 15					

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
EED 502	Project Phase – II	9	DC	-	Yes/No
Total		9			

Signature of Student

Date:

Signature of Faculty Advisor

Date:

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Current Address: _____ Name of Faculty Advisor : _____
E-mail : _____ Scholarship : _____
Category (if any) : _____

Power Electronics & Drives

(Instruction: To be filled in Blue Ink & Capital letters only, please Tick \sqrt appropriately and properly.)

IIInd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
EEL 510	Electrical Drives – II	3	DC	H	Yes/No
EEL 523	Analysis & Design of PE Converters	3	DC	E	Yes/No
EEL 526	Analysis of FACTS Devices	3	DC	G	Yes/No
EEP 524	Simulation / Implementation of PE Circuits	1	DC	E	Yes/No
EEP 526	Analysis of FACTS Devices	1	DC	G	Yes/No
	Any One Theory course				
EEL 512	Distributed Generation	3	DE	D	Yes/No
MAL 504	Applied Linear Algebra	3	DE	C	Yes/No
	DC- 11 + DE- 3 = Total Credits -14				

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
EED 502	Project Phase – II	9	DC	-	Yes/No
	Total	9			

Signature of Student

Date:

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E-mail :	_____	Scholarship :	_____
		Category (if any) :	_____

Industrial Engineering

(Instruction: To be filled in **Blue Ink** & Capital letters only, please Tick \sqrt appropriately and properly.)

IIInd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MEL 445	Automation in Production	3	DC	C	Yes/No
MEL 501	Statistics Quality Assurance	3	DC	G	Yes/No
MEL506	Marketing Management	3	DC	E	Yes/No
MEP 445	Automation in Production	1	DC	C	Yes/No
	Group-I (Any One Course)				
MEL 510	Manufacturing System Simulation & Design	3	DE	D	Yes/No
MEL 530	Machine Condition Monitoring	3	DE	B	Yes/No
	Group-II (Any One along with Practical)				
MEL 442	Computer & Database Management	3	DE	H	Yes/No
MEL 532	Layered Manufacturing	3	DE	A	Yes/No
MEP 442	Computer & Database Management	1	DE	H	Yes/No
MEP 532	Layered Manufacturing	1	DE	A	Yes/No
Credits DC- 10+ DE – 7=Total 17					

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MED 502	Project Phase – II	9	DC	-	Yes/No
Total		9			

Signature of Student

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Signature of Faculty Advisor

Date:

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Category (if any) : _____

Heat Power Engineering

(Instruction: To be filled in **Blue Ink** & Capital letters only, please Tick \surd appropriately and properly.)

IIInd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MEL 430	Advanced IC Engines	3	DC	F	Yes/No
MEL 444	Solar Energy Utilization	3	DC	A	Yes/No
MEL 508	Energy Management	3	DC	C	Yes/No
MEL 513	Advanced Heat Transfer	3	DC	E	Yes/No
MEP 430	Advanced IC Engines	1	DC	F	Yes/No
MEP 513	Advanced Heat Transfer	1	DC	E	Yes/No
	(Any One Course)				
MEL 443	Air Pollution and Control	3	DE	G	Yes/No
MEL 449	Advanced Turbo Machinery	3	DE	B	Yes/No
MEL 525	Multi Phase Flow	3	DE	B	Yes/No
Total Credits =17					

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MED 502	Project Phase – II	9	DC	-	Yes/No
Total		9			

Signature of Student

Date:

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Computer Aided Design & Computer Aided Manufacturing

(Instruction: To be filled in **Blue Ink** & Capital letters only, please Tick \surd appropriately and properly.)

IIIrd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MEL 418	Advanced Stress Analysis	3	DC	C	Yes/No
MEL 520	Non- Linear Optimization	3	DC	F	Yes/No
MEL 523	Computer Integrated Manufacturing	3	DC	E	Yes/No
	Group-I(Any one)				
MEL 415	Mechanical Vibration	3	DE	H	Yes/No
MEL 510	Manufacturing System Simulation & Design	3	DE	D	Yes/No
MEL 530	Machine Condition Monitoring	3	DE	B	Yes/No
	Group-II (Any one along with Practical)				
MEL 518	Fracture Mechanics and Non Destructive Testing	3	DE	A	Yes/No
MEL 526	Adhesion, Friction and Contact Mechanics	3	DE	G	Yes/No
MEL 532	Layered Manufacturing	3	DE	A	Yes/No
MEP 518	Fracture Mechanics and Non Destructive Testing	1	DE	A	Yes/No
MEP 526	Adhesion, Friction and Contact Mechanics	1	DE	G	Yes/No
MEP 532	Layered Manufacturing	1	DE	A	Yes/No
Total Credits 16					

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MED 502	Project Phase – II	9	DC	-	Yes/No
Total		9			

Signature of Student

Date:

Signature of Faculty Advisor

Date:

A student must **register the backlog courses first** and then register for the current semester courses. A student can register for maximum **SIX THEORY** and **FOUR PRACTICAL** (including project) as credit courses, and maximum one audit course **including all backlog course(s), if any.**

Visvesvaraya National Institute of Technology, Nagpur

Registration Form for M. Tech.

Enrollment for Even Semester for Session 2017-18 (Spring i.e. Jan-May 2018)

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) : _____

Excavation Engineering

(Instruction: To be filled in **Blue Ink** & Capital letters only, please Tick \sqrt appropriately and properly.)

IIInd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MNL 525	Blasting Technology in Excavation	3	DC	D	Yes/No
MNL 526	Tunnel and Cavern Engineering	3	DC	B	Yes/No
MNL 527	Geo-Environmental Engineering	3	DC	C	Yes/No
MNP 525	Blasting Technology in Excavation	1	DC	D	Yes/No
MNP 527	Geo-Environmental Engineering	1	DC	C	Yes/No
MND 525	Field Visit and Demonstrations	1	DC	-	Yes/No
	(Any Two Course)				
MNL 528	Modeling Techniques and Computer Applications	3	DE	H	Yes/No
MNL 531	Slope Engineering	4	DE	G	Yes/No
MNP 528	Modeling Techniques and Computer Applications	1	DE	H	Yes/No
(DC-12+DE-8)Total Credits =20					

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MND 502	Project Phase - II	9	DC	-	Yes/No
	Total	9			

Signature of Student

Date:

Signature of Faculty Advisor

Date:

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Visvesvaraya National Institute of Technology, Nagpur

Registration Form for M. Tech.

Enrollment for Even Semester for Session 2017-18 (Spring i.e. Jan-May 2018)

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) : _____

Materials Engineering

(Instruction: To be filled in **Blue Ink** & Capital letters only, please Tick \surd appropriately and properly.)

IIInd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MML 502	Design & Selection of Materials	3	DC	H	Yes/No
MML 504	Advanced Composite Materials	3	DC	E	Yes/No
MML 529	Phase Transformations	3	DC	F	Yes/No
MML 510	Welding Technology	3	DE	C	Yes/No
MML 512	Deformation Behavior of Materials	3	DE	G	Yes/No
MML 518	Corrosion Process & Control	3	DE	D	Yes/No
	Total Credits (DC=9 + DE=9)=18				

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MMD 502	Project Phase - II	9	DC	-	Yes/No
	Total	9			

Signature of Student

Date:

Signature of Faculty Advisor

Date:

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Visvesvaraya National Institute of Technology, Nagpur

Registration Form for M. Tech.

Enrollment for Even Semester for Session 2017-18 (Spring i.e. Jan-May 2018)

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) : _____

Urban Planning

(Instruction: To be filled in **Blue Ink** & Capital letters only, please Tick \sqrt appropriately and properly.)

IIInd Semester (Adm Year 2017-18)

Course Code	Course Title	Credits	Cat.	Slot	Selection
ARL 509	Transportation Planning	3	DC	H	Yes/No
ARL 510	Infrastructure Planning	3	DC	G	Yes/No
ARP 502	Planning Studio – II	3	DC	B1C1B4	Yes/No
Group – I (Any One Course)					
ARL 513	Disaster Management	3	DE	E	Yes/No
ARL520	RS & GIS Applications	3	DE	E	Yes/No
Group – II (Any One Course)					
ARL 515	Planning Legislation and Urban Management	3	DE	D	Yes/No
ARL 517	Planning for Informal Sector	3	DE	D	Yes/No
Group – III (Any One Course)					
ARL 511	Ecology & Environmental Planning	3	DE	C	Yes/No
ARL 516	Sustainable Development	3	DE	F	Yes/No
Total					

IVth Semester (Adm Year 2016-17)

Course Code	Course Title	Credits	Cat.	Slot	Selection
ARD 502	Project Phase – II	9	DC	-	Yes/No
Total		9			

Signature of Student

Date:

Signature of Faculty Advisor

Date:

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