

# Visvesvaraya National Institute of Technology, Nagpur

## Registration Form for B. Tech. ¥

### Enrollment for Odd Semester for Session 2018-19 (Winter-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) :	_____

## Ist semester B Tech

((To be filled in Blue Ink in Capital letters only)  
Instruction: Please Tick  $\checkmark$  appropriately and properly

### I<sup>st</sup>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
	<b>Total</b>	<b>21</b>			

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
	<b>Total</b>	<b>22</b>			

Signature of Student

Date:

Signature of Faculty Advisor

Date:

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	<b>Category (if any) :</b> _____

## Chemical Engineering

(To be filled in Blue Ink in Capital letters only)

**Instruction:** Please Tick  $\checkmark$  appropriately and properly

### III<sup>rd</sup> Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
CML 201	Chemical Process Calculations	4	DC	C	YES/NO
CML 202	Fluid Mechanics	4	DC	H	YES/NO
CML 203	Mechanical Operations	3	DC	D	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
CML 231	Material Science and Engineering	3	DE	E	YES/NO
CML392	Corrosion Engineering	3	DE	E	YES/NO
	<b>DC + DE = Credits</b>				

### V<sup>th</sup> 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
<b>Any Two</b>					
CML232	Introduction to Computing Software for Chemical Engineers	3	DE	E	YES/NO
CML 372	Paper and Pulp Technology	3	DE	H	YES/NO
CML 383	Advance Heat Transfer	3	DE	E	YES/NO
CML 389	Chemical Informatics	3	DE	H	YES/NO
	<b>DC5 + DE2 = Credits</b>				

### VII<sup>th</sup> Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
CMD 401	Project Phase I	2	DC	-	YES/NO
CML 403	Plant Design and Economics	3	DC	G	YES/NO
CMP 401	Mass Transfer II	1	DC	C	YES/NO
CMP 453	Design Lab-I	1	DC	C	YES/NO
CML 425	Membrane Technology	3	DE	H	YES/NO
CML 426	Polymer Processing	3	DE	F	YES/NO
CML 427	Advanced Separation Process	3	DE	E	YES/NO
CML 428	CFD for Chemical Engineers	3	DE	D	YES/NO
CML 437	Piping Engineering	3	DE	C	YES/NO
CML481	Instrumental Analytical Techniques	3	DE	F	YES/NO
CML 537	Sustainable Engineering	3	DE	E	YES/NO
CMP 429	Nanotechnology	1	DE	E	YES/NO
		3	OC / HM		YES/NO
	<b>DC + DE = Credits</b>				

Signature of Student

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Signature of Faculty Advisor

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	Category (if any) : _____

## Civil Engineering

(To be filled in Blue Ink in Capital letters only)

Instruction: Please Tick  appropriately and properly

### III<sup>rd</sup> 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	C	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	C	YES/NO
AML 285	Mechanics of Solids	3	DC	E	YES/NO
AMP 285	Mechanics of Solids	1	DC	E	YES/NO
CEL 208	Hydrology	3	DE	H	YES/NO
CEL220	Environmental Studies	3	DE	<b>B</b>	YES/NO
MAL 203	Numerical Methods & Computation	4	DE	D	YES/NO
<b>4DC+2DE</b>					

### V<sup>th</sup> 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
<b>(Any Two)</b>					
CEL 315	Fluid Mechanics	3	DE	<b>B</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>B</b>	YES/NO
<b>4DC+2DE</b>					

### VII<sup>th</sup> Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
CED 401	Project Phase I	2	DC	-	YES/NO
CEL 307	Project Planning & Management	4	DC	D	YES/NO
CEL 408	Construction site Administration and Control	3	DE	E	YES/NO
CEL 423	Introduction to Soil Dynamics	3	DE	F	YES/NO
CEL 436	Computer Aided Design and Analysis	3	DE	G	YES/NO
CEL 442	Geotechnical Investigation of Construction Project	3	DE	<b>A</b>	YES/NO
CEL 552	Construction Contracts and Specification	3	DE	C	YES/NO
CEP 436	Computer Aided Design and Analysis	1	DE	G	YES/NO
AML 424	Structural Dynamics	3	DE	<b>B</b>	YES/NO
AML 461	Advanced Structural Analysis	4	DE	E	YES/NO
		3	OC & HM		YES/NO
<b>2DC+4DE/OC/HM</b>					

Signature of Student

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Signature of Faculty Advisor

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## Computer Science & Engineering

(To be filled in Blue Ink in Capital letters only)

**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>B</b>	YES/NO
CSL226	Digital Circuits and Microprocessor	5	DC	G	YES/NO
CSP 201	Software Lab – I	2	DC	G	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
<b>DC5+DE1= Credits 24</b>		24			

#### V<sup>th</sup> 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	G	YES/NO
CSL 303	Introduction to OO Methodology	4	DE	H	YES/NO
CSL 304	Neurofuzzy Techniques	4	DE	G	YES/NO
CSL 305	Computer Graphics	4	DE	<b>A</b>	YES/NO
<b>DC4+DE2</b>					

#### VII<sup>th</sup> Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
CSD 401	Project Phase I	2	DC	-	YES/NO
CSL 443	System & Network Security	4	DC	E	YES/NO
CSL 451	Introduction to Embedded Systems	4	DE	<b>B</b>	YES/NO
CSL 412	Artificial Intelligence	4	DE	D	YES/NO
CSL 430	Business Intelligence	3	DE	<b>A</b>	YES/NO
CSL 436	Information Retrieval	4	DE	C	YES/NO
CSL 442	Image & Video Processing	4	DE	H	YES/NO
CSL 523	Advanced Computer Architecture	3	DE	G	YES/NO
CSL 530	Topics in Bioinformatics	3	DE	F	YES/NO
		3	OC/HM		YES/NO
<b>DC2; DE +OC/HM:(6 DE or 1 OC+5 DE)</b>					

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<b>E-mail :</b> _____	<b>Scholarship :</b> _____
	<b>Category (if any) :</b> _____

## Electrical & Electronics Engineering

(To be filled in Blue Ink in Capital letters only)

**Instruction:** Please Tick  appropriately and properly

### IIIrd Semester

Course Code	Course	Credits	Cat.	Slot	Selection
EEL 201	Network Theory	4	DC	H	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	H	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
<b>Any One</b>					
EEL206	Electromagnetics	3	DE	E	YES/NO
PHL202	Introduction to Material Science	3	DE	E	YES/NO
<b>DC5 + DE1 = 23</b>					

### V<sup>th</sup> 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	E	YES/NO
EEL 326	Industrial Automation	3	DC	D	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	D	YES/NO
EEL 327	Electrical Power Distribution System	3	DE	F	YES/NO
<b>DC5+DE1</b>					

### VII<sup>th</sup> Semester

Course Code	Course Title	Credits	Cat	Slot	Selection
EED 401	Project Phase I	2	DC	-	YES/NO
EEL 402	High Voltage Engineering	3	DC	C	YES/NO
EEP 402	High Voltage Engineering	1	DC	C	YES/NO
EEL 408	Advanced Power Electronics	3	DE	G	YES/NO
EEL 409	HVDC	3	DE	F	YES/NO
EEL 412	DSP Application to Power Systems	3	DE	D	YES/NO
EEL 421	Power Quality	3	DE	H	YES/NO
EEL 428	Introduction to Electric Vehicles	3	DE	E	YES/NO
<b>DC3+DE</b>					

Signature of Student

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Contact No. : \_\_\_\_\_ SBI A/c No. : \_\_\_\_\_  
Current Address: \_\_\_\_\_ Name of Faculty Advisor : \_\_\_\_\_  
E-mail : \_\_\_\_\_ Scholarship : \_\_\_\_\_  
Category (if any) : \_\_\_\_\_

## Electronics & Communication Engineering

(To be filled in Blue Ink in Capital letters only)

Instruction: Please Tick  $\surd$  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	A	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
<b>DC5 = Credits 19</b>					

### V<sup>th</sup> 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	F	YES/NO
ECL401	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	F	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 310	CMOS Design	3	DE	B	YES/NO
CSL 311	Computer Architecture & Organization	3	DE	E	YES/NO

### VII<sup>th</sup> Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
ECD 401	Project Phase I	2	DC	-	YES/NO
ECL 402	Communication Net and Net Applications	3	DE	G	YES/NO
ECL 404	RF & Microwave Engineering	3	DE	E	YES/NO
ECL 407	Radar Engineering	3	DE	C	YES/NO
ECL 410	Satellite Communication	3	DE	D	YES/NO
ECL 411	Digital Image Processing	3	DE	F	YES/NO
ECL 434	Wireless Digital Communication	3	DE	H	YES/NO
ECP 402	Communication Net and Net Applications	1	DE	G	YES/NO

Signature of Student

Date:

Signature of Faculty Advisor

Date:

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	<b>Category (if any) :</b> _____

## Mechanical Engineering

(To be filled in Blue Ink in Capital letters only)

**Instruction:** Please Tick  appropriately and properly

#### III<sup>rd</sup> Semester

Course Code	Course Title	Cr	Cat.	Slot	Selection
MEL 201	Theory of Machines -I	4	DC	D	YES/NO
MEL 203	Engineering Thermodynamics	4	DC	G	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
<b>DC 5 = Credits 20</b>					

#### V<sup>th</sup> 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 Machines	3	DC	E	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 Machines	1	DC	E	YES/NO
MEP 313	Machine Drawing	1	DC	C	YES/NO
<b>Any One (including OC)</b>					
MEL 416	Industrial Robotics	3	DE	D	YES/NO
MEL 421	Computational Methods in Engg.	3	DE	D	YES/NO
		3	OC/HM		
<b>DC5+DE/OC1</b>					

#### VII<sup>th</sup> Semester

Course Code	Course Title	Cr	Cat.	Slot	Selection
MED 401	Project Phase I	2	DC	-	YES/NO
<b>Any One (Th+Pr) combination</b>					
MEL420	Finite Element Method	3	DE	C	YES/NO
MEL 435	Computational Fluid Dynamics	3	DE	C	YES/NO
MEP420	Finite Element Method	1	DE	C	YES/NO
MEP 435	Computational Fluid Dynamics	1	DE	C	YES/NO
<b>Any Four (including OC)</b>					
MEL 402	Surface Engineering	3	DE	D	YES/NO
MEL 407	Bio Mechanics	1	DE	H	YES/NO
MEL 408	Supply Chain Management	3	DE	F	YES/NO
MEL 412	Air Conditioning	3	DE	E	YES/NO
MEL 414	Tribology	3	DE	F	YES/NO
MEL 417	Power Plant Engineering	3	DE	F	YES/NO
MEL 425	Reliability and Maintenance Engineering	3	DE	G	YES/NO
MEL 431	Advanced Mechanism	3	DE	D	YES/NO
MEL 433	Design of Manufacturing and Assembly	3	DE	E	YES/NO
MEL 437	Composite Material	3	DE	G	YES/NO
MEL 440	Machine Vision & its Application	3	DE	H	YES/NO
MEL 452	Advanced Machining Processes	3	DE	G	YES/NO
		3	OC/HM		YES/NO

Signature of Student

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	<b>Category (if any) :</b> _____

## Metallurgical & Materials Engineering

(To be filled in Blue Ink in Capital letters only)

**Instruction:** Please Tick  appropriately and properly

### IIIrd Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
MML203	Engineering Physical Metallurgy	3	DC	E	YES/NO
MML 211	Introduction to Material Science and Engineering	4	DC	C	YES/NO
MML 224	Testing of Materials	3	DC	H	YES/NO
MML 225	Mineral Processing Technology	3	DC	G	YES/NO
MMP203	Engineering Physical Metallurgy	1	DC	E	YES/NO
MMP 224	Testing of Materials	1	DC	H	YES/NO
MMP 225	Mineral Processing Technology	1	DC	G	YES/NO
MAL 203	Numerical Methods & Computation	4	DC	D	YES/NO
<b>Total</b>		<b>20</b>			

### V<sup>th</sup> Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
MML 371	Metal Working Process	4	DC	G	YES/NO
MML 372	Principle of Non Ferrous Extraction Metallurgy	3	DC	F	YES/NO
MML 373	Ferrous Extraction Metallurgy	3	DC	E	YES/NO
MMP 372	Principle of Non Ferrous Extractive Metallurgy	1	DC	F	YES/NO
<b>Group –I (Any one)</b>					
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
<b>Group –II (Any Two)</b>					
MML 351	Process Optimization	3	DE	<b>A</b>	YES/NO
MML 368	Industrial Metallurgy	3	DE	C	YES/NO
MML 390	Bio Materials	3	DE	E	YES/NO

### VII<sup>th</sup> Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
MMD 401	Project Phase I	2	DC	-	YES/NO
MML 471	Structural Metallurgy	3	DC	D	YES/NO
MML 472	Environmental Degradation	3	DC	G	YES/NO
MMP 471	Structural Metallurgy	1	DC	D	YES/NO
MMP 472	Environmental Degradation	1	DC	G	YES/NO
MML 379	Non Destructive Testing	3	DE	F	YES/NO
MML 477	Secondary & Special Steel Making	3	DE	H	YES/NO
MML 479	Selection of Materials	3	DE	E	YES/NO
MML 480	Fracture Mechanics	3	DE	C	YES/NO
MML 474	XRD and SEM	3	DE	C	YES/NO

Signature of Student

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## Registration Form for B. Tech. ₹

### Enrollment for Odd Semester for Session 2018-19 (Winter-2018)

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

(To be filled in Blue Ink in Capital letters only)  
**Instruction:** Please Tick  appropriately and properly

#### III<sup>rd</sup> 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
	<b>DC5+OC/H M 1 = 23</b>				

#### V<sup>th</sup> 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
MNL301	Mining Machinery II	3	DC	C	YES/NO
MNP 205	Mine Ventilation & Climate Engineering	1	DC	E	YES/NO
MNP 206	Rock Engineering	1	DC	D	YES/NO
MNL 471	Underground Space Technology	3	DE	F	YES/NO
MNL 425	Mass Production Technology for Underground Coal	3	DE	G	YES/NO
MML 291	Mineral Processing / Dressing	3	DE	H	YES/NO
		3	OC/HM		YES/NO
	<b>Total</b>				

#### VII<sup>th</sup> Semester

Course Code	Course Title	Credits	Cat.	Slot	Selection
MND 401	Project Phase I	2	DC	-	YES/NO
MNL 480	Surface Mine Environment	3	DC	H	YES/NO
MNL 483	Mining Economics	3	DC	C	YES/NO
MNL 484	Computer Applications in Mining	3	DC	E	YES/NO
MNP 373	Mine Visits	1	DC	D	YES/NO
MNP 480	Surface Mine Environment	1	DC	H	YES/NO
MNP 484	Computer Applications in Mining	1	DC	E	YES/NO
MNL 476	Rock Slope Engineering	3	DE	F	YES/NO
MNL 481	Mine System Engineering	3	DE	G	YES/NO
		3	OC/HM		YES/NO
	<b>Total</b>				

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.**