

# Visvesvaraya National Institute of Technology, Nagpur

## Registration Form for B. Tech.

Enrollment for Even Semester for Session 2016-17 (Spring i.e. Jan-May 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) :	_____

### II<sup>nd</sup> Semester B. Tech (Adm Year 2016-17)

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

Applicable for sections – N, W, X, Y, Z					
<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 102	Mathematics - II	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 102	Health Information and Sports	0	Audit		Yes/No
<b>Total</b>		<b>21</b>			

Applicable for sections – L, R, S, T, U					
<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 102	Mathematics - II	4	BS		Yes/No
MEP 102	Workshop	2	ES		Yes/No
SAP 102	Health Information and Sports	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

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

#### IVth Semester (Adm Year 2015-16)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CML 221	Mass Transfer – I	4	DC	B	Yes/No
CML 222	Heat Transfer	4	DC	G	Yes/No
CML 223	Chemical Reaction Engineering – I	4	DC	F	Yes/No
CML 224	Chemical Engineering Mathematics	3	DC	H	Yes/No
CML 225	Chemical Engineering Thermodynamics – II	3	DC	C	Yes/No
CMP 202	Fluid Mechanics	1	DC	C	Yes/No
CMP 203	Mechanical Operations	1	DC	D	Yes/No
CML 233	Environmental Engineering	3	DE	D	Yes/No
MAL 205	Num Methods & Prob Theory	3	DE	E	
			OC/HM		Yes/No
<b>Total</b>					

#### Vth Semester (Adm Year 2014-15)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CML 351	Chemical Technology	6	DC	E	Yes/No
CML 352	Transport Phenomena	6	DC	A	Yes/No
CML 353	Chemical Process Equipment Design	6	DC	D	Yes/No
CML 354	Energy and Environment	6	DC	G	Yes/No
CMP 302	Chemical Process Modeling and Simulation	2	DC	H	Yes/No
CMP 303	Process Control and Instrumentation	2	DC	B	Yes/No
CMP 321	Mass Transfer – I	2	DC	G	Yes/No
CML 234	Industrial Waste Treatment	6	DE	F	Yes/No
CML 393	Innovative Design	6	DE	H	Yes/No
CML 429	Nanotechnology	6	DE	B	Yes/No
			OC/HM		Yes/No
<b>Total</b>					

#### VIIIth Semester (Adm Year 2013-14)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CMD 402	Project Phase – II	8	DC	-	Yes/No
CMP 403	Design Lab-II	2	DC	A	Yes/No
CML 386	Biotechnology and Biochemical Engineering	6	DE	C	Yes/No
CML 422	Plant Utility	6	DE	G	Yes/No
CML 423	Optimization Techniques	6	DE	F	Yes/No
CML 424	Petroleum Refinery Engg.	6	DE	D	Yes/No
CML 429	Nanotechnology	6	DE	B	Yes/No
CML 433	Project Planning and Management	6	DE	E	Yes/No
CML 525	Catalysis: Theory and Practice	6	DE	H	Yes/No
			OC/HM		
<b>Total</b>					

Signature of Student

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Signature of Faculty Advisor

Date:

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

## Civil Engineering

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

#### IVth Semester (Adm Year-2015-16)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CEL 210	Environmental Engineering – I	3	DC	D	Yes/No
CEL 211	Surveying – II	3	DC	G	Yes/No
CEL 213	Engineering Geology	3	DC	H	Yes/No
CEL 214	Hydraulic Engineering	3	DC	E	Yes/No
CEL 215	Building Design and Drawing	3	DC	B	Yes/No
CEP 210	Environmental Engineering – I	1	DC	D	Yes/No
CEP 211	Surveying – II	1	DC	G	Yes/No
CEP 213	Engineering Geology	1	DC	H	Yes/No
CEP 214	Hydraulic Engineering	1	DC	E	Yes/No
CEL209	Construction Materials	3	DE	A	Yes/No
CEL 212	Rural Water Supply and Sanitation	3	DE	C	Yes/No
<b>Credit Requirement ( 5 DC + 1 DE /OC/HM ) - 22</b>					

#### Vth Semester(Adm Year-2014-15)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CEL 301	Foundation Engineering	6	DC	G	Yes/No
CEL 305	Design of RCC Structures	6	DC	H	Yes/No
CEL 314	Estimating and Costing	6	DC	E	Yes/No
CEP 314	Estimating and Costing	2	DC	E	Yes/No
AML 363	Design of Steel Structures	6	DC	F	Yes/No
CEL 311	Pavement Design	8	DE	C	Yes/No
CEL 368	Advanced Hydraulics	8	DE	B	Yes/No
CEL 435	Remote Sensing and Geographical Information System	8	DE	D	Yes/No
<b>Credit Requirement – ( 4 DC +2 DE/OC/HM ) – 40 +</b>					

#### VIIIth Semester (Adm Year-2013-14)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CED 402	Project Phase – II	8	DC	-	Yes/No
CEL 401	Irrigation Engineering	8	DC	D	Yes/No
CEL 414	Water Distribution Systems	8	DE	C	Yes/No
CEL 415	Advanced Structural Design	8	DE	H	Yes/No
CEL 425	Financial and Business Management	6	DE	B	Yes/No
CEL 441	Geotechnical Aspect of M/C Foundation	6	DE	E	Yes/No
AML 467	Advance RCC	8	DE	G	Yes/No
AML 525	Design of Advanced Steel Structure	8	DE	A	Yes/No
<b>Credit Requirement – (1 Project + IDC + 3 DE/OC/HM) – 32 +</b>					

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### Computer Science & Engineering

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

#### IVth Semester (Adm Year2015-16)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CSL 204	Concepts in Programming Languages	4	DC	A	Yes/No
CSL 214	Data Structures and Program Design – II	5	DC	B	Yes/No
CSL 222	Computer Organization	4	DC	D	Yes/No
MAL 206	Linear Algebra and Applications	4	DC	E	Yes/No
CSP 202	Software Lab II	2	DC	-	Yes/No
CSL 225	Advance Web Programming	3	DE	H	Yes/No
<b>DC=36, DE=6 (1 of 3)</b>		<b>42</b>			

#### VIth Semester (Adm Year2014-15)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CSL 308	Software Engineering	6	DC	A	Yes/No
CSL 315	Database Management Systems	8	DC	C	Yes/No
CSL 316	Language Processors	8	DC	G	Yes/No
CSL 317	Computer Networks	8	DC	F	Yes/No
CSL 318	Business Information Systems	6	DE	B	Yes/No
HUL 301	Technical Communication	6	DE	D	Yes/No
<b>DC=30, DE=12(2 DE's)</b>		<b>42</b>			

#### VIIIth Semester (Adm Year2013-14)

Course Code	Course Title	Credits	Cat.	Slot	Selection
CSD 402	Project Phase – II	8	DC	-	Yes/No
CSL 406	Network Security (Compulsory)	8	DE	E	Yes/No
CSL 407	Data Mining & Data Warehousing	8	DE	F	Yes/No
CSL 436	Information Retrieval	6	DE	H	Yes/No
CSL 442	Image & Video Processing	8	DE	B	Yes/No
CSL 447	Introduction to Parallel Computing	8	DE	A	Yes/No
CSL 519	Distributed System	8	DE	D	Yes/No
CSL 521	Software Architecture	6	DE	G	Yes/No
		6	OC/HM		
<b>DC=8, DE=24-30 (3 DE + 1 OC/HM or 4 DE's)</b>		<b>32-38</b>			

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E-mail : \_\_\_\_\_ Scholarship : \_\_\_\_\_  
Category (if any) : \_\_\_\_\_

### Electronics & Communication Engineering

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

#### IVth Semester (Adm Year 2015-16)

Course Code	Course Title	Credits	Cat.	Slot	Selection
ECL211	Signals and Systems Analysis	4	DC	D	Yes/No
ECL 305	Electromagnetic Fields	4	DC	B	Yes/No
ECL 306	Microprocessors & Interfacing	3	DC	F	Yes/No
ECL 308	Analog Circuit Design	3	DC	C	Yes/No
ECP 211	Signals and Systems Analysis	1	DC	D	Yes/No
ECP 306	Microprocessors & Interfacing	1	DC	F	Yes/No
ECP 307	Electronic Product Engineering Workshop	1	DC	H	Yes/No
ECP 308	Analog Circuit Design	1	DC	C	Yes/No
MAL 205	Numerical Methods and Probability Theory	4	DC	E	Yes/No
			OC/HM		
<b>Total</b>					

#### VIth Semester (Adm Year 2014-15)

Course Code	Course Title	Credits	Cat.	Slot	Selection
ECL 303	Digital Communication	6	DC	F	Yes/No
ECL 304	Digital Signal Processing	6	DC	E	Yes/No
ECP 303	Digital Communication	2	DC	F	Yes/No
ECP 304	Digital Signal Processing	2	DC	E	Yes/No
ENL 302	Device Modeling	6	DC	C	Yes/No
ENP 302	Device Modeling	2	DC	C	Yes/No
ECL 310	CMOS Design	6	DE	H	Yes/No
ECL 403	Embedded Systems	6	DE	B	Yes/No
ECL 408	Biomedical Engg	6	DE	G	Yes/No
CSL 312	Concepts in Operating Systems	6	DE	D	Yes/No
ECP 403	Embedded Systems	2	DE	B	Yes/No
		6	OC/HM		
<b>Total</b>					

#### VIIIth Semester (Adm Year 2013-14)

Course Code	Course Title	Credits	Cat.	Slot	Selection
ECD 402	Project Phase – II	8	DC	B	Yes/No
ECL 406	Mobile Communication Systems	6	DE	A	Yes/No
ECL 409	Radio Frequency Circuit Design	6	DE	G	Yes/No
ECL 411	Digital Image Processing	6	DE	D	Yes/No
ECL 419	Wireless Sensor Network	6	DE	B	Yes/No
ECL 420	Smart Antennas	6	DE	F	Yes/No
ECL 424	Optical Communication	6	DE	C	Yes/No
ECL 427	Broadband Communication	6	DE	E	Yes/No
ECP 409	Radio Frequency Circuit Design	2	DE	G	Yes/No
ECP 424	Optical Communication	2	DE	C	Yes/No
<b>Total</b>					

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## Electrical & Electronics Engineering

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

### Ivth Semester (Adm Year 2015-16)

Course Code	Course Title	Credits	Cat.	Slot	Selection
EEL 203	Electrical Machines – I	3	DC	G	Yes/No
EEL 225	Electrical Power System -I	3	DC	B	Yes/No
EEL 226	Power Electronics	4	DC	D	Yes/No
ECL 207	Digital Circuits	3	DC	C	Yes/No
EEP 203	Electrical Machines – I	1	DC	G	Yes/No
ECP 207	Digital Circuits	1	DC	C	Yes/No
EEL 215	Electrical Power Utilization	3	DE	F	Yes/No
EEL 227	Power Station Practice	3	DE	H	Yes/No
MAL 205	Numerical Methods and Probability Theory	3	DE	E	Yes/No
EEP 223	Programming Tech. & Simulation	1	DE	B	Yes/No
EEP 226	Power Electronics	1	DC	D	Yes/No
EEP 230	Electrical Engineering Workshop	1	DE	F	Yes/No
<b>Total</b>					

### With Semester (Adm Year 2014-15)

Course Code	Course Title	Credits	Cat.	Slot	Selection
EEL 303	Power Electronics	6	DC	H	Yes/No
EEL 304	Electric Drives & Their Control	6	DC	F	Yes/No
EEL 401	Electrical Power System – II	6	DC	G	Yes/No
ECL 320	Linear Electronic Circuit	6	DC	D	Yes/No
EEP 303	Power Electronics	2	DC	H	Yes/No
ECP 320	Linear Electronic Circuit	2	DC	D	Yes/No
ECP 321	Microprocessor Lab	2	DC	F	Yes/No
EEL 406	Electrical Installation Design	6	DE	B	Yes/No
EEL 418	Control Systems – II	6	DE	E	Yes/No
MEL 424	Industrial Engg. and Management	6	DE	C	Yes/No
<b>Total</b>					

### VIIIth Semester (Adm Year 2013-14)

Course Code	Course Title	Credits	Cat.	Slot	Selection
EED 402	Project Phase – II	8	DC	-	Yes/No
EEL 404	Sampled Data & Digital Control	6	DC	E	Yes/No
EEL 408	Advanced Power Electronics	6	DE	D	Yes/No
EEL 411	Application of Power Electronics to Power Systems	6	DE	F	Yes/No
EEL 412	DSP Application to Power System	6	DE	H	Yes/No
EEL 414	Microprocessor Applications in Power Electronics / Power Systems	6	DE	G	Yes/No
EEL 416	Renewable Energy Systems	6	DE	C	Yes/No
EEP 415	Computer Application in Electrical Engg.	2	DE	C	Yes/No
<b>Total</b>			OC/HM		Yes/No

Signature of Student

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## Mechanical Engineering

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

### IVth Semester (Adm Year 2015-16)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MEL 202	Fluid Mechanics	4	DC	C	Yes/No
MEL 207	Manufacturing Process – I	3	DC	G	Yes/No
MEL 301	Theory of Machine – II	3	DC	E	Yes/No
MEL 303	Energy Conversion – I	4	DC	A	Yes/No
MEL 304	Machine Design – I	3	DC	H	Yes/No
MEP 202	Fluid Mechanics	1	DC	C	Yes/No
MEP 207	Manufacturing Process – I	1	DC	G	Yes/No
MEP 301	Theory of Machine – II	1	DC	E	Yes/No
MEP 208	Design Lab	1	DC	H	Yes/No
<b>Total</b>					

### Vth Semester (Adm Year 2014-15)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MEL 307	Fluid Machines	6	DC	E	Yes/No
MEL 309	Machine Design – II	6	DC	G	Yes/No
MEL 310	Manufacturing Processes Automation	6	DC	F	Yes/No
MEL 407/424	Bio-Mechanics / Industrial Engg. And Management	6	DE	D	Yes/No
MEL 415/429	Mechanical Vibration / Renewable Energy Systems	6	DE	H	Yes/No
MEL 423/ 445	Measurement & Signal Processing /Automation in Production	6	DE	C	Yes/No
MEP 307	Fluid Machines	2	DC	E	Yes/No
MEP 309	Machine Design – II	2	DC	G	Yes/No
MEP 310	Manufacturing Processes Automation	2	DC	F	Yes/No
MEP 423/ MEP 445	Measurement & Signal Processing / Automation in Production	2	DE	C	Yes/No
<b>Total</b>					

### VIIIth Semester (Adm Year 2013-14)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MED 402	Project Phase – II	8	DC	-	Yes/No
MEL 420	Finite Element Method	6	DE	F	Yes/No
MEL 422/426	Automobile Engg / Refrigeration & Cryogenics	6	DE	D	Yes/No
MEL 443/405	Air Pollution Control / Optimisation	6	DE	G	Yes/No
MEL 413/444	Fracture Mechanics / Solar Energy Utilization	6	DE	A	Yes/No
MEL 442	Computer & Database Management	6	DE	H	Yes/No
MEL 448	Artificial Intelligence in Manufacturing	6	DE	C	Yes/No
MEL 449	Advanced Turbo Machinery	6	DE	B	Yes/No
MEL 452	Machine System Design	6	DE	C	Yes/No
MEP 420	Finite Element Method	2	DE	F	Yes/No
MEP 422/426	Automobile Engg / Refrigeration & Cryogenics	2	DE	D	Yes/No
MEP 442	Computer & Database Management	2	DE	H	Yes/No
			OC/HM		Yes/No
<b>Total</b>					

Signature of Student

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---------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------

### Metallurgical & Materials Engineering

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

#### IVth Semester (Adm Year 2015-16)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MML 213	Polymeric Materials	3	DC	G	Yes/No
MML 214	Theory and Technology of Heat Treatment	3	DC	C	Yes/No
MML 215	Transport Phenomena	3	DC	E	Yes/No
MML 216	Metallurgical Thermodynamics & Kinetics	4	DC	D	Yes/No
MML 218	Ceramic Materials	4	DC	F	Yes/No
MMP 213	Polymeric Materials	1	DC	G	Yes/No
MMP 215	Transport Phenomena	1	DC	E	Yes/No
MMP 219	Theory and Technology of Heat Treatment	1	DC	C	Yes/No
MML 220	Fundamentals of Defects in Materials	3	DE	H	Yes/No
MML 222	Cast Iron Metallurgy	3	DE	H	Yes/No
MML 223	Structure of Materials	3	DE	H	Yes/No
		3	HM		Yes/No
<b>Total Credits (DC=20+DE 3 + HM 3= 26)</b>					

#### Vth Semester (Adm Year 2014-15)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MML 374	Characterization of Materials	6	DC	F	Yes/No
MML 375	Steel Making Technology	6	DC	G	Yes/No
MML 382	Solidification Processing & AFT	6	DC	E	Yes/No
MMP 374	Characterization of Materials	2	DC	F	Yes/No
MMP 382	Solidification Processing & AFT	2	DC	E	Yes/No
MML 355	Particulate Technology	6	DE	D	Yes/No
MML 383	Light Metal Alloys	6	DE	C	Yes/No
MML 384	Alloy Steels & High Temp. Alloys	6	DE	H	Yes/No
MML 385	Hydro & Electro Metallurgy	6	DE	A	Yes/No
MML 475	Joining of Materials	6	DE	C	Yes/No
MMP 383	Light Metal Alloys	2	DE	C	Yes/No
MMP 475	Joining of Materials	2	DE	C	Yes/No
<b>Total Credits (DC=22 + DE=20)</b>					

#### VIIIth Semester (Adm Year 2013-14)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MMD 402	Project Phase – II	8	DC	-	Yes/No
MML 473	Composite Materials	8	DC	G	Yes/No
MML 481	Deformation Behaviour	6	DE	C	Yes/No
MML 486	Failure Analysis	6	DE	E	Yes/No
MML 487	Continuous Casting of Steels	6	DE	F	Yes/No
MML 488	Nanomaterials	6	DE	A	Yes/No
MML 489	Surface Engineering	6	DE	D	Yes/No
			OC		
<b>Total Credits ( DC= 16 + DE = 12 + OC/DE = 6)</b>					

Signature of Student

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

### Mining Engineering

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

#### IVth Semester (Adm Year2015-16)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MNL 203	Underground Metalliferous Mining	3	DC	F	Yes/No
MNL 207	Underground Coal Mining	3	DC	G	Yes/No
MNL 208	Surface Mining	3	DC	E	Yes/No
MAL 208	Probability Theory and Statistical Methods	3	DC	H	Yes/No
CEL 384	Advanced Mining Geology	3	DE	D	Yes/No
EEL 285	Industrial Electrical Engineering	3	DE	C	Yes/No
<b>Total</b>		18			

#### Vth Semester (Adm Year2014-15)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MNL 267	Underground Coal Mining	6	DC	C	Yes/No
MNL 268	Surface Mining	6	DC	E	Yes/No
MNL 380	Mine Hazards and Rescue	6	DC	G	Yes/No
MNL 381	Ground Control in Mines	6	DC	D	Yes/No
MNP366	Survey Camp	2	DC	-	Yes/No
MNL 465	Blasting Technology for Mining and Construction	6	DE	F	Yes/No
MNL 467	Geostatistics	6	DE	A	Yes/No
MNP 465	Blasting Technology for Mining and Construction	2	DE	F	Yes/No
MNP 380	Mine Hazards and Rescue	2	DE	H	Yes/No
MNP 381	Ground Control in Mines	2	DE	D	Yes/No
<b>Total</b>					

#### VIIIth Semester (Adm Year2013-14)

Course Code	Course Title	Credits	Cat.	Slot	Selection
MND 402	Project Phase – II	8	DC	A	Yes/No
MNL 462	Mine Legislation and Safety	6	DC	G	Yes/No
MNL 463	Mine Management	6	DE	C	Yes/No
MNL 470	Mine Planning	6	DC	E	Yes/No
MNL 472	Mine Safety Engineering	6	DE	F	Yes/No
MNP 462	Training Seminar	4	DC	-	Yes/No
			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.**