

# KATHMANDU UNIVERSITY

OFFICE OF THE CONTROLLER OF EXAMINATIONS

Dhulikhel, P.O. Box 6250, Kathmandu, Nepal

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February 1, 2019

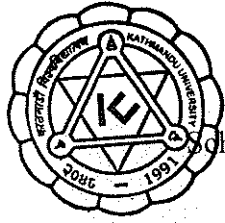
## NOTICE

End Semester Examinations of B.E./B.Sc./B.Pharm./B.Tech./B.Arch. will be held from February 15, 2019 as follow:

1. Examination Schedules : As per attached sheets (4 Pages)
2. Examination Time : 11:00 A.M. to 2:00 P.M.
3. Examination Center : Kathmandu University, Dhulikhel

Professor PANNA THAPA, PhD  
Controller of Examinations

**Note:** *Examinations will be conducted as per this schedule and under no circumstance the dates and times will be changed unless the University published prior notice.*

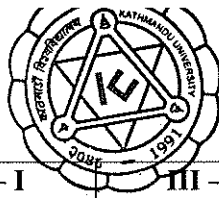


KATHMANDU UNIVERSITY  
School of Science/ School of Engineering  
End-Semester Examinations  
February /March, 2019

**Examination Time : 11:00 A.M. to 2.00 P.M.**

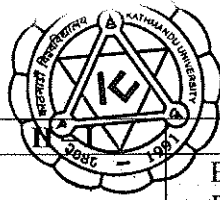
Date/ Day	I-I	II-I	III-I	III-II	IV-I
February 15 Friday					COMP 421
February 17 Sunday	CHEM 101 ARCH 111		EEEG 314 MEEG 315 COMP 301 COMP 317 CIEG 301 GEOM 316 CHEG 301 ENVS 332 ENVE 207 PHAR 303 BIOT 302 PHYS 301		
February 18 Monday		MATH 207 MATH 208 MATH 206 BIOT 203 STAT 201 ARCH 201			ETEG 408 EPEG 413 COMP 401 GEOM 401 CIEG 404 MGTS 402 BIOT 409 PHYS 401
February 19 Tuesday	ENGT 101 ENGT 103				
February 20 Wednesday			COEG 304 EPEG 302 CIEG 303 COMP 342 GEOM 303 CHEG 302 ENVS 345 ENVE 309 PHAR 304 BIOT 303 MATH 301		

*Pannathes*  
Controller of Examinations



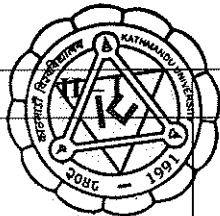
Date/ Day	I-I	II-I	III-I	III-II	IV-I
February 21 Thursday		MEEG 216 MATH 205 ENVS 212 PHAR 201 BIOT 201 MATH 201 ARCH 202			MEPP 408 MGTS 403 CIEG 402 GEOM 415 GEOM 417 ENVS 431 PHAR 404 BIOT 403 PHYS 402
February 22 Friday	ENGG 111 BIOL 101 ARCH 101	EEEG 202	CIEG 302	COMP 302	
February 24 Sunday			EEEG 313 MEEG 301 COMP 315 GEOM 317 CIEG 306 CHEG 303 INAN 301 MATH 302		COMP 482 COMP 407
February 25 Monday		EEEG 207 MEEG 213 COMP 202 GEOM 205 CIEG 204 CHEM 207 MEEG 218 PHAR 203 BIOT 204 PHYS 202 ARCH 203		MATH 322	ETEG 402 COEG 401 MEPP 412 MEPP 428 GEOM 411 CIEG 406 ENVS 404 ENVS 423 ENVS 440 BIOT 401 PHYS 405 CHEG 401 PHAR 401
February 26 Tuesday	PHYS 101 MATH 105				

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Controller of Examinations



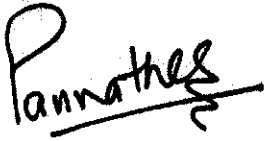
Date/ Day	I-I		III - I	III - II	IV-I
February 27 Wednesday			ETEG 302 EPEG 317 MEEG 325 MEEG 328 COMP 307 GEOM 318 CIEG 305 ENVS 328 CHEG 304 PHAR 301 BIOT 301 PHYS 302		COMP 478
February 28 Thursday		EEEG 211 MEEG 217 GEOM 201 CIEG 201 ENVS 207 CHEM 201 MATH 204 ARCH 205		COMP 314	ETEG 422 EPEG 422 MEPP 430 MEPP 441 GEOM 405 CIEG 403 ENVS 413 ENVE 432 BIOT 410 PHYS 403 CHEG 402 PHAR 406
March 1 Friday	COMP 103 COMP 101		BIOT 304		
March 3 Sunday		ENVS 211 PHAR 204	MGTS 301 ENVS 338 PHYS 303	COMP 341	COMP 484
March 5 Tuesday		EEEG 213 EEEG 204 GEOM 202 MCSC 201 CIEG 203 ENVS 201 ENVE 204 PHAR 216 BIOT 205 PHYS 203 ARCH 204	ENVS 333		ETEG 429 EPEG 410 EPEG 416 MEPP 427 MEEP 429 MEPP 455 MEPP 439 CIEG 401 GEOM 402 ENVS 402 BIOT 416 PHYS 404 CHEG 406 CHEG 411 PHAR 408

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Controller of Examinations

Date/ Day	I-I		III - I	III - II	IV-I
March 6 Wednesday	MATH 101 MATH 111		CIEG 304 CHEG 311 MATH 303 COMP 316		COMP 472
March 7 Thursday		MEEG 219 PHYS 206		COMP 323	
March 8 Friday		CIEG 202 ENVE 209 BIOT 202 PHYS 201 CHEG 201			CIEG 405 ENVS 415 ENVE 433 BIOT 404 PHAR 402
March 10 Sunday				COMP 409	COMP 409 GEOM 406
March 11 Monday					CIEG 408 CIEG 409 ENVS 435

Note: Examinations will be conducted as per this schedule and under no circumstance the dates and times will be changed unless the University publishes prior notice.

March 4 – Maha-Shivaratri

  
 Controller of Examinations

**Department of Electrical & Electronics Engineering**



Ist year Ist Semester			IInd year Ist Semester		
Course No.	Course Title	Credit	Course No.	Course Title	Credit
MATH 101	Calculus and Linear Algebra	3	MATH 207	Differential Equations and Complex Variables	4
PHYS 101	General Physics I	3	EEEG 202	Digital Logic	3
CHEM 101	General Chemistry	3	EEEG 207	Electrical Engineering Materials	3
ENGG 111	Elements of Engineering I	3	EEEG 211	Electronics Engineering I	3
COMP 103	Structured Programming	2	EEEG 213	Network Analysis	3
ENGT 101	Communication Skills I	2	EEEG 217	Digital Electronics Laboratory Work	1
ENGG 101	Engineering Project Preparation	2	EEEG 218	Analog Electronics Laboratory Work	1
EDRG 101	Engineering Drawing I	2	EEEG 205	Engineering Project	1

**IIIrd year Ist Semester**

EE (Communication)			EE (Power & Control)		
Course No.	Course Title	Credit	Course No.	Course Title	Credit
EEEG 313	Signals and Systems	3	EEEG 313	Signals and Systems	3
EEEG 314	Microprocessors	3	EEEG 314	Microprocessors	3
COEG 304	Instrumentation and Control	3	EPEG 302	Advanced Electrical Machinery	3
ETEG 302	Analog Communications	3	EPEG 317	Measurement & Instrumentation	3
MGTS 301	Economics	3	MGTS 301	Economics	3
EEEG 306	Instrumentation and Microprocessor Laboratory	1	EEEG 306	Instrumentation and Microprocessor Laboratory	1
ETEG 307	Analog Communications Laboratory	1	EPEG 307	Advanced Electrical Machinery Laboratory	1
ETEG 313	Engineering Project	1	PCEG 313	Engineering Project	1

**IVth year Ist Semester**

EE (Communication)			EE (Power & Control)		
Course No.	Course Title	Credit	Course No.	Course Title	Credit
ETEG 402	Antennas and Propagation	3	COEG 401	Control Systems Design	3
ETEG 408	Microwave Devices & Systems	3	EPEG 413	Power Systems II	3
ETEG 422	Optical Fiber Communication	3	EPEG 422	Solid State Drives	3
MGTS 403	Engineering Management	3	MGTS 403	Engineering Management	3
ETEG 419	Engineering Project	2	PCEG 404	Engineering Project	2
ETEG 403	Communications Laboratory Work	1	PCEG 403	Power & Control Laboratory Work	1
<i>Elective (Choose One)</i>					
ETEG 429	Cellular Mobile Communication	3	EPEG 410	Hydropower and Renewable Energy	3
		3	EPEG 416	Industrial Electrification	3

**Department of Mechanical Engineering**

Ist year Ist Semester		IIInd year Ist Semester	
Course No.	Course Title	Course No.	Course Title
MATH 101	Calculus and Linear Algebra	MATH 207	Differential Equations and Complex Variables
PHYS 101	General Physics I	MEEG 213	Material Science and Metallurgy
CHEM 101	General Chemistry	MEEG 216	Engineering Mechanics
ENGG 111	Elements of Engineering I	MEEG 217	Basic Manufacturing Processes
COMP 103	Structured Programming	MEEG 219	Metrology
ENGT 101	Communication Skills I	EEEG 204	Basic Electronics
ENGG 101	Engineering Project Preparation	MEEG 211	Laboratory Work
EDRG 101	Engineering Drawing I	MEEG 214	Engineering Project



IIIrd year Ist Semester			
Automotive And Design & Manufacturing		Energy Technology And Hydropower	
Course No.	Course Title	Course Title	
MEEG 301	Fluid Mechanics	MEEG 301	Fluid Mechanics
MEEG 315	Machine Element Design and Process I	MEEG 315	Machine Element Design and Process I
MEEG 325	Finite Element Method	MEEG 328	Renewable Energy
COEG 304	Instrumentation and Control	COEG 304	Instrumentation and Control
MGTS 301	Economics	MGTS 301	Economics
MEEG 305	Laboratory Work	MEEG 305	Laboratory Work
MEEG 312	Project Work	MEEG 312	Project Work

IVth year Ist Semester			
Automotive		Design and Manufacturing	
Course No.	Course Title	Course Title	
MEPP 408	Maintenance Engineering	MEPP 408	Maintenance Engineering
MEPP 412	Automobile Engineering	MEPP 412	Automobile Engineering
MEPP 427	Mechatronics	MEPP 429	Computer Aided Design
MEPP 430	Finite Element Method	MEPP 430	Finite Element Method
MGTS 402	Engineering Entrepreneurship Development	MGTS 402	Engineering Entrepreneurship Development
MEPP 402	Laboratory Work	MEPP 402	Laboratory Work







**Department of Computer Science & Engineering**

Computer Engineering			IInd year Ist Semester		
Course No.	Course Title	Credit	Course No.	Course Title	Credit
MATH 101	Calculus and Linear Algebra	3	MATH 208	Statistics & Probability	3
PHYS 101	General Physics I	3	MCSC 201	Discrete Structure	3
CHEM 101	General Chemistry	3	EEEG 202	Digital Logic	3
ENGG 111	Elements of Engineering I	3	EEEG 211	Electronics Engineering I	3
COMP 103	Structured Programming	2	COMP 202	Data Structures and Algorithms	3
ENGT 101	Communication Skills I	2	COMP 206	Computer Project	2
ENGG 101	Engineering Project Preparation	2	COMP 208	Laboratory Work	1
EDRG 101	Engineering Drawing I	2			
IIIrd year Ist Semester			IVth year Ist Semester		
Course No.	Course Title	Credit	Course No.	Course Title	Credit
COEG 304	Instrumentation and Control	3	COMP 401	Software Engineering	3
COMP 301	Principles of Programming Languages	3	COMP 407	Digital Signal Processing	3
COMP 307	Operating Systems	3	COMP 409	Compiler Design	3
COMP 315	Computer Architecture & Organization	3	COMP 472	Artificial Intelligence (AI)	3
MGTS 301	Economics	3	MGTS 403	Engineering Management	3
COMP 303	Combined Engineering Project	2	<i>Elective (Choose any One)</i>		
COMP 310	Laboratory Work	1	COMP 421	Software Architecture	3
			COMP 484	Machine Learning	3
			COMP 478	Cloud Computing	3
			COMP 482	Data Mining	3

## Department of Civil and Geomatics Engineering



### Geomatics Engineering

Ist year Ist Semester			IInd year Ist Semester		
Course No.	Course Title	Credit	Course No.	Course Title	Credit
MATH 101	Calculus and Linear Algebra	3	MATH 207	Differential Equations and Complex Variables	4
PHYS 101	General Physics I	3	MATH 205	Trigonometry & Analytical Geometry	3
CHEM 101	General Chemistry	3	GEOM 201	Introduction to Surveying & Geomatics	2
ENGG 111	Elements of Engineering I	3	GEOM 202	Control Surveying	4
COMP 103	Structured Programming	2	GEOM 205	Topographical Surveying	3
ENGT 101	Communication Skills I	2	GEOM 208	Engineering Project III	2
ENGG 101	Engineering Project Preparation	2			
EDRG 101	Engineering Drawing I	2			
IIIrd year Ist Semester			IVth year Ist Semester		
Course No.	Course Title	Credit	Course No.	Course Title	Credit
GEOM 303	Engineering & Construction Survey	3	GEOM 401	Survey Management	3
GEOM 316	Photogrammetry	4	GEOM 402	Remote Sensing	3
GEOM 317	Physical Geodesy	3	CIEG 405	Entrepreneurship and Ethics	3
GEOM 318	Spatial Database Management	3	GEOM 405	Web GIS	3
MGTS 301	Economics	3	GEOM 406	Spatial Data Infrastructure	2
GEOM 314	Engineering Project IV	2	GEOM 411	Python Programming	3
			<i>Elective (Choose any One)</i>		
			GEOM 415	Land Use Planning & Environmental Management	3
			GEOM 417	Precise Point Positioning	3

**Civil Engineering**

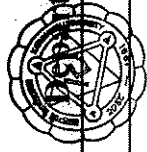
Ist year 1st Semester		IIInd year 1st Semester	
Course No.	Course Title	Credit	Course No.
MATH 101	Calculus and Linear Algebra	3	MATH 207
PHYS 101	General Physics I	3	MATH 205
CHEM 101	General Chemistry	3	CIEG 201
ENGG 111	Elements of Engineering I	3	CIEG 202
COMP 103	Structured Programming	2	CIEG 203
ENGT 101	Communication Skills I	2	CIEG 204
ENGG 101	Engineering Project Preparation	2	CIEG 205
EDRG 101	Engineering Drawing I	2	



IIIrd year 1st Semester		IVth year 1st Semester	
Course No.	Course Title	Credit	Course Title
CIEG 301	Hydraulics and River Engineering	3	CIEG 401
CIEG 302	Remote Sensing and GIS	2	CIEG 402
CIEG 303	Soil and Rock Mechanics	3	CIEG 403
CIEG 304	Hydraulics Structure	3	CIEG 404
CIEG 305	Structural Analysis I	3	CIEG 405
CIEG 306	Estimating and Valuation	2	CIEG 406
MGTS 301	Economics	3	Choose One (Elective)
			CIEG 408
			CIEG 409

**Bachelor of Architecture (B. Arch.)**

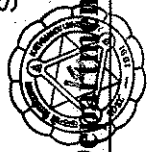
Ist year 1st Semester		IIInd year 1st Semester	
Course No.	Course Title	Credit	Course Title
MATH 105	Engineering Mathematics I	3	ARCH 201
ENGT 103	Communication Skills I	2	ARCH 202
ARCH 111	History of Architecture I	3	ARCH 203
ARCH 101	Building Science I	3	ARCH 204
ARCH 121	Design Studio I	3	ARCH 205
ARCH 151	Art Appreciation and Practice I	2	ARCH 206
ARCH 131	Architectural Drawing and Graphics I	3	ARCH 207



**Department of Chemical Engineering**

<b>Ist year 1st Semester</b>		<b>IIInd year 1st Semester</b>		<b>Credit</b>	<b>Course Title</b>	<b>Credit</b>
<b>Course No.</b>	<b>Course Title</b>	<b>Course No.</b>	<b>Course Title</b>			
MATH 101	Calculus and Linear Algebra	MATH 207	Differential Equations and Complex Variables	3		4
PHYS 101	General Physics I	MEEG 213	Material Science and Metallurgy	3		3
CHEM 101	General Chemistry	MEEG 216	Engineering Mechanics	3		3
ENGG 111	Elements of Engineering I	EEEE 204	Basic Electronics	3		2
COMP 103	Structured Programming	CHEM 201	Reaction Mechanism & Stereochemistry	2		3
ENGT 101	Communication Skills I	CHEG 201	Chemical Process Calculation	2		3
ENGG 101	Engineering Project Preparation	CHEG 202	Engineering Project III	2		2
EDRG 101	Engineering Drawing I			2		

<b>IIIrd year 1st Semester</b>		<b>IVth year 1st Semester</b>		<b>Credit</b>	<b>Course Title</b>	<b>Credit</b>
CHEG 301	Chemical Reaction Engineering I	CHEG 401	Transport Phenomena	3		3
CHEG 302	Process Control and Instrumentation	CHEG 402	Nano & Composite Materials	3		3
CHEG 303	Heat Transfer	MGTS 402	Entrepreneurship Development	3		3
CHEG 304	Biochemical Engineering	MGTS 403	Engineering Management	3		3
CHEG 311	Chemical Process Technology II	CHEG 403	Plant Design	3		3
MGTS 301	Economics	CHEG 404	Design Laboratory	3		2
CHEG 306	Project Work		<i>Choose One (Elective)</i>	2		
		CHEG 406	Chemical Process Safety			3
		CHEG 411	Polymer Science and Technology			3



**Department Environmental Science & Engineering**

**Environmental Science**

Ist year Ist Semester			IInd year Ist Semester		
Course No.	Course Title	Credit	Course No.	Course Title	Credit
MATH 111	Calculus and Algebra	3	MATH 206	Statistical Analysis	3
PHYS 101	General Physics I	3	CHEM 207	Organic Chemistry	2
CHEM 101	General Chemistry	3	ENVS 201	Environmental Chemistry	2
BIOL 101	General Biology	2	PHYS 206	Environmental Physics	2
COMP 101	Information Systems Technology	2	ENVS 207	Natural Resource Management	3
ENGT 101	Communication Skills I	2	ENVS 211	Principles of Ecology	2
ENGG 101	Engineering Project Preparation	2	ENVS 212	Biodiversity & Taxonomy	3
EDRG 101	Engineering Drawing I	2	ENVS 221	Ecological Practical	1
			ENVS 218	Environmental Chemistry Laboratory	1

IIIrd year Ist Semester			IVth year Ist Semester		
Course No.	Course Title	Credit	Course No.	Course Title	Credit
INAN 301	Instrumental Analysis	3	ENVS 402	Environmental Impact Assessment	3
ENVS 328	Conservation Biology	3	ENVS 413	Urbanization and Sustainable Development	3
ENVS 332	Geology and Geomorphology	3	ENVS 415	Fundamentals of Aquatic Ecology	3
ENVS 333	Meteorology & Climatology	2	ENVS 431	Municipal and Hazardous Waste	3
ENVS 338	Bioengineering	3	ENVS 435	Integrated Watershed Management	3
ENVS 345	Environmental Sociology and Human Ecology	3	MGTS 402	Entrepreneurship Development	3
INAN 302	Instrumental Analysis Laboratory	2	<i>Elective (Choose ONE)</i>		
ENVS 340	Geology Practical	1	ENVS 404	Environmental Modeling	3
ENVS 341	Meteorology & Climatology Practical	1	ENVS 423	Glacier Environments	3
			ENVS 440	Agriculture and Environment	3



### Environmental Engineering

Ist year Ist Semester		IInd year Ist Semester	
Course No.	Course Title	Credit	Course No.
MATH 101	Calculus and Linear Algebra	3	MATH 207
PHYS 101	General Physics I	3	ENVS 211
CHEM 101	General Chemistry	3	ENVE 204
ENGG 111	Elements of Engineering I	3	ENVE 209
COMP 103	Structured Programming	2	MEEG 218
ENGT 101	Communication Skills I	2	MEEG 216
ENGG 101	Engineering Project Preparation	2	CIEG 201
EDRG 101	Engineering Drawing I	2	ENVS 221
			Course Title
			Differential Equations and Complex Variable
			Principles of Ecology
			Chemical Process Calculation
			Engineering and Environmental Survey
			Fluid Mechanics
			Engineering Mechanics
			Construction Materials and Concrete Technology
			Ecological Practical
			Credit
			4
			2
			2
			3
			3
			3
			1

IIIrd year Ist Semester		IVth year Ist Semester	
Course No.	Course Title	Credit	Course No.
ENVE 207	Engineering Geology	3	ENVS 402
INAN 301	Instrumental Analysis	3	ENVS 404
ENVS 333	Meteorology & Climatology	2	ENVS 431
ENVE 309	Water Supply and Sanitary Engineering	3	ENVE 432
CIEG 305	Structural Analysis I	3	ENVE 433
MGTS 301	Economics	3	MGTS 402
ENVS 341	Meteorology & Climatology Practical	1	ENVE 434
INAN 302	Instrumental Analysis Laboratory	2	ENVE 435
			Course Title
			Environmental Impact Assessment
			Environmental Modelling
			Municipal & Hazardous Waste
			Water and Wastewater Technology
			Air and Noise Pollution Control
			Entrepreneurship Development
			Air and Noise Pollution Practical
			Wastewater Practical
			Credit
			3
			3
			3
			3
			3
			3
			1
			1



**Department of Pharmacy**

Ist year Ist Semester			IInd year Ist Semester		
Course No.	Course Title	Credit	Course No.	Course Title	Credit
MATH 111	Calculus and Linear Algebra	3	MATH 206	Statistical Analysis	3
PHYS 101	General Physics I	3	CHEM 201	Reaction Mechanism & Stereochemistry	3
CHEM 101	General Chemistry	3	PHAR 201	Pharmaceutical Microbiology	3
BIOL 101	General Biology	2	PHAR 203	Human Physiology & Pathophysiology I	3
COMP 101	Information Systems Technology	2	PHAR 204	Pharmacognosy I	2
ENGT 101	Communication Skills I	2	PHAR 216	Inorganic Pharmaceutical Chemistry	2
ENGG 101	Engineering Project Preparation	2	PHAR 202	Pharmaceutical Microbiology Laboratory	1
EDRG 101	Engineering Drawing I	2	PHAR 205	Pharmacognosy Laboratory	1
			PHAR 217	Inorganic Pharmaceutical Chemistry Laboratory	1
IIIrd year Ist Semester			IVth year Ist Semester		
Course No.	Course Title	Credit	Course No.	Course Title	Credit
INAN 301	Instrumental Analysis	3	PHAR 401	Pharmacy Practice I	2
PHAR 301	Physical Pharmacy	3	PHAR 402	Hospital Pharmacy	2
PHAR 303	Pharmacology & Toxicology I	3	PHAR 404	Industrial Pharmacy I	3
PHAR 304	Pharmaceutical Chemistry of Natural Products	3	PHAR 406	Quality Assurance & GMP	2
MGTS 301	Economics	3	PHAR 408	Pharmacotheapeutics	3
PHAR 302	Physical Pharmacy Laboratory	1	MGTS 402	Entrepreneurship Development	3
PHAR 305	Pharmaceutical Chemistry Laboratory	1	PHAR 403	Pharmacy Practice & Hospital Pharmacy Laboratory	1
INAN 302	Instrumental Analysis Laboratory	2	PHAR 405	Industrial Pharmacy Laboratory	1
			PHAR 407	Quality Assurance Laboratory	2



**Department of Bio-technology**

Ist year Ist Semester		IInd year Ist Semester	
Course No.	Course Title	Course No.	Course Title
MATH 111	Calculus and Linear Algebra	BIOT 201	Microbiology
PHYS 101	General Physics I	BIOT 202	Genetics
CHEM 101	General Chemistry	BIOT 203	Biochemistry
BIOL 101	General Biology	BIOT 204	Principle of Biochemical Engineering
COMP 101	Information Systems Technology	BIOT 205	Cell Biology
ENGT 101	Communication Skills I	CHEM 201	Reaction Mechanism & Stereochemistry
ENGG 101	Engineering Project Preparation	BIOT 251	Microbiology Laboratory
EDRG 101	Engineering Drawing I	BIOT 252	Biochemistry Laboratory
		BIOT 253	Cell Biology Laboratory
IIIrd year Ist Semester		IVth year Ist Semester	
Course No.	Course Title	Course No.	Course Title
INAN 301	Instrumental Analysis	BIOT 401	Industrial Biotechnology
INAN 351	Instrumental Analysis Laboratory	BIOT 403	Total Quality Management
BIOT 301	Downstream Processing	BIOT 451	Industrial Biotechnology Laboratory
BIOT 302	Molecular Biology-II	BIOT 452	Seminar in Biotechnology
BIOT 303	Plant Biotechnology	BIOT 453	Industrial Training
BIOT 304	Animal Cell Culture Technology	<i>Choose any three (Elective)</i>	
BIOT 351	Downstream Processing Laboratory	BIOT 404	Plant Molecular Biology
BIOT 352	Molecular Biology Laboratory	BIOT 409	Immunotechnology
BIOT 353	Plant Biotechnology Laboratory	BIOT 410	Cancer Biology
BIOT 354	Animal Cell Culture Laboratory	BIOT 416	Food Processing and Preservation

Course No.	Credit	Course Title	Credit
BIOT 201	3	Microbiology	3
BIOT 202	3	Genetics	3
BIOT 203	3	Biochemistry	3
BIOT 204	2	Principle of Biochemical Engineering	3
BIOT 205	2	Cell Biology	3
CHEM 201	2	Reaction Mechanism & Stereochemistry	3
BIOT 251	2	Microbiology Laboratory	1
BIOT 252	2	Biochemistry Laboratory	1
BIOT 253	1	Cell Biology Laboratory	1
BIOT 401	3	Industrial Biotechnology	3
BIOT 403	1	Total Quality Management	3
BIOT 451	3	Industrial Biotechnology Laboratory	1
BIOT 452	3	Seminar in Biotechnology	1
BIOT 453	3	Industrial Training	2
2		<i>Choose any three (Elective)</i>	
BIOT 404	1	Plant Molecular Biology	3
BIOT 409	1	Immunotechnology	3
BIOT 410	1	Cancer Biology	3
BIOT 416	1	Food Processing and Preservation	3





**Department of Natural Sciences**

**Applied Physics**

IInd year 1st Semester			IIIrd year 1st Semester		
Course No.	Course Title	Credit	Course No.	Course Title	Credit
PHYS 201	General Electronics	3	PHYS 301	Physics & Environment	3
PHYS 202	Fluid Dynamics	3	PHYS 302	Mathematical Physics	3
PHYS 203	Modern Physics	3	PHYS 303	Solid State Physics	3
MATH 201	Advanced Calculus	3	MATH 301	Discrete Mathematics	3
MATH 204	Analytical Geometry	3	MATH 302	Matrix Theory	3
STAT 201	Probability Theory	3	MATH 303	Linear Programming	3
PHYS 204	General Electronics Laboratory	1	PHYS 304	Waves & Optics Laboratory	1
PHYS 205	Project	1	PHYS 305	Project	1

IVrd year 1st Semester		
Course No.	Course Title	Credit
PHYS 401	Engineering Physics	3
PHYS 402	Introduction to Plasma Physics	3
PHYS 403	Physics of Nano-materials	3
PHYS 404	Photonics and Applications	3
PHYS 405	Computational Physics	3
PHYS 406	Project	1

**Computational Mathematics**

1st year 1st Semester			2nd year 1st Semester		
Course No.	Course Title	Credit	Course No.	Course Title	Credit
MATH 101	Calculus and Linear Algebra	3	MATH 201	Advanced Calculus	3
PHYS 101	General Physics I	3	COMP 202	Data Structure & Algorithms	3
CHEM 101	General Chemistry	3	MATH 208	Statistics & Probability	3
ENGG 111	Elements of Engineering I	3	MATH 204	Analytic Geometry	3
COMP 103	Structured Programming	2	MCSC 201	Discrete Mathematics	3
ENGT 101	Communication Skills I	2	COMP 206	Computer Project	2
ENGG 101	Engineering Project Preparation	2			
EDRG 101	Engineering Drawing I	2			