

The National Engineering University

Alangilan Campus

Golden Country Homes, Alangilan Batangas City, Batangas, Philippines 4200

Tel Nos.: (+63 43) 425-0139 local 2121

E-mail Address: coe.alangilan@g.batstate-u.edu.ph | Website Address: http://www.batstate-u.edu.ph

College of Engineering

CURRICULUM

Bachelor of Science in Petroleum Engineering (BSPetE)

Academic Year 2023-2024 Reference CMOs: CMO No. 39, s. 2021, CMO No. 40, s. 2021, CMO No. 4, s.2018, CMO No. 20 s.2013

Curriculum Description

Petroleum Engineering is a field of engineering concerned with the activities related to the production of hydrocarbons, which can be either crude oil or natural gas. Exploration and production are deemed to fall within the upstream sector of the oil and gas industry.

Program Educational Objectives of Petroleum Engineering

The petroleum engineering alumni three to five years after graduation shall:

- 1. Successfully practice in upstream and downstream petroleum industry and academe.
- 2. Promote professionalism in petroleum engineering practice.

Institutional Graduate Attributes

The student should achieve at least 75% for each IGA upon graduation.

- 1. **Knowledge Competence.** Demonstrate a mastery of the fundamental knowledge and skills required for functioning effectively as a professional in the discipline, and an ability to integrate and apply them effectively to practice in the workplace.
- 2. **Creativity and Innovation.** Experiment with new approaches, challenge existing knowledge boundaries and design novel solutions to solve problems.
- 3. **Critical and Systems Thinking.** Identify, define, and deal with complex problems pertinent to the future professional practice or daily life through logical, analytical and critical thinking.
- 4. **Communication.** Communicate effectively (both orally and in writing) with a wide range of audiences, across a range of professional and personal contexts, in English and Pilipino.
- 5. **Lifelong Learning.** Identify own learning needs for professional or personal development; demonstrate an eagerness to take up opportunities for learning new things as well as the ability to learn effectively on their own.
- 6. **Leadership, teamwork, and Interpersonal Skills**. Function effectively both as a leader and as a member of a team; motivate and lead a team to work towards goal; work collaboratively with other team members; as well as connect and interact socially and effectively with diverse culture.
- 7. **Global Outlook**. Demonstrate an awareness and understanding of global issues and willingness to work, interact effectively and show sensitivity to cultural diversity.

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8. **Social and National Responsibility**. Demonstrate an awareness of their social and national responsibility; engage in activities that contribute to the betterment of the society; and behave ethically and responsibly in social, professional and work environments.

Student Outcomes

The following skills, knowledge and behavior are expected to be attained by students as they progress through the program:

- 1. **Discipline Knowledge**. Ability to apply mathematics, sciences and principles of engineering to solve complex petroleum engineering problems.
- 2. **Investigation**. Ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- 3. **Design/Development of Solutions**. Design solution, system, components, processes, exhibiting improvements/innovations, that meet specified needs with appropriate consideration for public health and safety, cultural, societal, economical, ethical, environmental and sustainability issues.
- 4. **Leadership and Teamwork**. Function effectively as a member of a leader on a diverse team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- 5. **Problem Analysis.** Identify, formulate, and solve complex petroleum engineering problems by applying principles of engineering, science, and mathematics.
- 6. **Ethics and Professionalism.** Apply ethical principles and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, environmental, and societal contexts.
- 7. **Communication.** Communicate effectively on complex engineering activities with the community, and the society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 8. **Environment and Sustainability**. Recognize the impact of professional engineering solutions in societal, global, and environmental contexts and demonstrate knowledge of and need for sustainable development.
- 9. **Lifelong Learning.** Recognize the need for, and ability to engage in independent and life-long learning in the broadest context of technological change.
- 10. **The Engineer and Society**. Apply reasoning based on contextual knowledge to assess societal, health, safety, legal, cultural, contemporary issues, and the consequent responsibilities relevant to professional engineering practices.
- 11. **Modern Tool Usage.** Apply appropriate techniques, skills, and modern engineering and IT tools to complex petroleum engineering activities.
- 12. **Project Management and Finance.** Demonstrate knowledge and understanding of engineering management and financial principles as member or a leader of a team to manage projects in multidisciplinary settings, and identify opportunities of entrepreneurship.
- 13. **Social and National Responsibility.** Apply acquired petroleum engineering knowledge and skills in addressing community problems that contributes to national development.

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CURRICULUM COMPONENTS

Classification/ Field / Course	No. of Hou	rs Per Week	Credit Units
Classification/ Field / Course	Lec	Lab	Crean Units
I. TECHNICAL COURSES			
A. Mathematics			
Differential Calculus	3	0	3
Integral Calculus	3	0	3
Differential Equations	3	0	3
Engineering Data Analysis	3	0	3
Numerical Methods and Analysis	2	3	3
Sub-Total	14	3	15
B. Natural/Physical Sciences			
General Chemistry	3	3	4
Physics 1	3	3	4
Modern Biology	2	3	3
Sub-Total	8	9	11
C. Basic Engineering Sciences			
Engineering Drawing	0	3	1
Computer Programming 1	0	3	1
Engineering Mechanics	3	0	3
Fundamentals of Deformable Bodies	3	0	3
Engineering Economics	3	0	3
Technopreneurship	3	0	3
Introduction to Engineering	0	3	1
Environmental Science and Engineering	3	0	3
Sub-Total	15	9	18
D. Allied Courses	13	,	10
Basic Electrical Engineering	2	3	3
Instrumentation and Control Engineering	2	3	3
Basic Organic Chemistry	2	3	3
DC and AC Machinery	2	3	3
Physical Chemistry	2	3	3
Introduction to Unit Operation	3	0	3
Thermodynamics	3	0	3
Fluid Mechanics	3	0	3
Sub-Total	19	15	24
E. Fundamental Petroleum Engineering Courses	19	13	24
Introduction to Oil and Gas Industry and Sustainable Development	3	0	3
Reservoir Geosciences	3	0	3
	2	3	3
Petroleum Geology Reservoir Petrophysics with Hydrocarbon Phase Analysis	3	3	4
Advance Mathematics for PetE	3	0	3
Formation Evaluation	2	3	3
	2	3	3
Reservoir Geomechanics Evels and Combustion	3	_	3
Fuels and Combustion	_	0	
Basic Occupational Safety and Health	3	0	3

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Project Management for PetE	3	0	3
Reservoir Modelling and Simulation	2	3	3
Qualitative and Quantitative Chemistry	2	3	3
Process Plant Engineering	3	0	3
Material Science and Engineering	3	0	3
On the-Job-Training	320	ı -	4
Sub-Total	37	18	47
F. Professional Petroleum Engineering Courses	31	10	4/
Reservoir Engineering 1	2	3	3
Reservoir Engineering 2	2	3	3
Production Engineering 1	2	3	3
	2	3	3
Production Engineering 2 Well Test Analysis	3	0	3
			3
Drilling Engineering	2	3	3
Drilling Technology	2		
PetE Project Study 1	0	3	1
PetE Project Study 2	0	3	1
Plant Design	2	3	3
Petroleum Economics	2	0	2
Research Methods	3	0	3
Sub-Total	22	27	31
TOTAL TECHNICAL COURSES	115	81	146
A. General Education Courses	2	0	2
Purposive Communication	3	0	3
Mathematics in the Modern World	3	0	3
Understanding the Self	3	0	3
Art Appreciation	3	0	3
Ethics	3	0	3
Readings in Philippine History	3	0	3
Contemporary World	3	0	3
Science, Technology and Society	3	0	3
Sub-Total	24	0	24
B. General Education Elective and Mandated Courses			_
Kontekstwalisadong Komunikasyon sa Filipino	3	0	3
Filipino sa Iba't Ibang Disiplina	3	0	3
ASEAN Literature	3	0	3
Life and Works of Rizal	3	0	3
Sub-Total	12	0	12
C. Physical Activity Towards Health and Fitness	2	0	2
PATHFit 1 - Movement Competency Training	2	0	2
PATHFit 2 - Exercise-based Fitness Activities	2	0	2
PATHFit 3 – Menu of Dance, Sports, Martial Arts, Group			
Exercise, Outdoor Adventure Activities	2	0	2
Menu Offering: (Traditional and Recreational Games)		1	1
PATHFit 4 – Menu of Dance, Sports, Martial Arts, Group	2		
Exercise, Outdoor Adventure Activities	2	0	2
Menu Offering: (Team Sports, Basketball and Volleyball)	•		1
Sub-Total	8	0	8



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D. National Service Training Program							
NSTP 1&2	6	0	6				
Sub-Total	6	0	6				
TOTAL NON-TECHNICAL COURSES		0	50				
GRAND TOTAL	165	81	196				

SUMMARY								
Courses	Number of Units							
I. Technical Courses								
A. Mathematics	15							
B. Natural and Physical Sciences	11							
C. Basic Engineering Sciences	18							
D. Allied Courses	24							
E. Fundamental Courses	47							
F. Professional Petroleum Engineering Courses	31							
II. Non-Technical Courses								
A. General Education Courses	24							
B. General Education Elective/Mandated Courses	12							
C. PATHFit 1-4	8							
D. NSTP	6							
GRAND TOTAL	196							



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PROGRAM OF STUDY

	FIRST YEAR								
First Semester									
Course	Course Title	No. of	Hour/s	Unit/s	Pre-	Co-			
Code	Course Title	Lec	Lab	UIIIUS	requisite/s	requisite/s			
GEd 102	Mathematics in the Modern World	3	0	3					
GEd 105	Readings in Philippine History	3	0	3					
GEd 101	Understanding the Self	3	0	3					
GEd 106	Purposive Communication	3	0	3					
MATH 401	Differential Calculus	3	0	3					
ENGG 401	Introduction to Engineering	0	3	1					
SCI 401	General Chemistry	3	3	4					
PATHFit 1	Movement Competency Training	2	0	2					
NSTP 111	National Service Training Program 1	3	0	3					
	Total	23	6	25					

	FIRST YEAR									
	Second Semester									
Course	Course Title	No. of	Hour/s	Unit/s	Pre-	Co-				
Code	Course Title	Lec	Lab	Omus	requisite/s	requisite/s				
MATH 402	Integral Calculus	3	0	3	MATH 401					
SCI 403	Physics 1	3	3	4	MATH 401	MATH 402				
GEd 104	The Contemporary World	3	0	3						
GEd 109	Science, Technology and Society	3	0	3						
GEd 108	Art Appreciation	3	0	3						
CpE 401	Computer Programming 1	0	3	1						
PATHFit 2	Exercise-based Fitness Activities	2	0	2	PATHFit 1					
NSTP 121	National Service Training Program 2	3	0	3	NSTP 1					
ENGG 402	Engineering Drawing	0	3	1						
	Total	20	9	23						

	FIRST YEAR								
	Midter	rm							
Course	Canna Title	No. of Hour/s Pre-				Co-			
Code	Course Title	Lec	Lab	Unit/s	requisite/s	requisite/s			
GEd 107	Ethics	3	0	3					
GEd 103	Life and Works of Rizal	3	0	3					
SCI 402	Modern Biology	2	3	3					
	Total	8	3	9					



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ENGG 409 Engineering Mechanics ME 431 Thermodynamics 3 0 3 SCI 403 MATH 402 EE 419 Basic Electrical Engineering ChE 420 Qualitative and Quantitative Chemistry Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor Adventure PATHFit 3 Activities Menu Offering: (Traditional and Recreational Games) Fili 101 Kontekstwalisadong Komunikasyon sa Filipino MATH 404 Differential Equations 3 0 3 SCI 403 MATH 402 2 3 3 SCI 403, MATH 402 PATHFit 1 and 2 PATHFit 1 and 2		SECOND YEAR							
CodeLecLabUnit/s requisite/s requis	First Semester								
PetE 401 Introduction to Oil and Gas Industry and Sustainable Development 3 0 3 ENGG 401 PetE 402 Reservoir Geosciences 3 0 3 PetE 401 ENGG 409 Engineering Mechanics 3 0 3 SCI 403 ME 431 Thermodynamics 3 0 3 SCI 403, MATH 402 EE 419 Basic Electrical Engineering 2 3 3 SCI 403, MATH 402 ChE 420 Qualitative and Quantitative Chemistry 2 3 SCI 401 PATHFit 3 Group Exercise, Outdoor Adventure Activities Menu Offering: (Traditional and Recreational Games) Fili 101 Kontekstwalisadong Komunikasyon a Filipino 3 0 3 MATH 402 MATH 404 Differential Equations 3 0 3 MATH 402	Course	Course Title	No. of	Hour/s	Unit/a	Pre-	Co-		
PetE 401 and Sustainable Development 3 0 3 401 PetE 402 Reservoir Geosciences 3 0 3 SCI 403 ENGG 409 Engineering Mechanics 3 0 3 SCI 403 ME 431 Thermodynamics 3 0 3 SCI 403, MATH 402 EE 419 Basic Electrical Engineering 2 3 3 SCI 403, MATH 402 ChE 420 Qualitative and Quantitative Chemistry 2 3 SCI 401 Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor Adventure Activities Menu Offering: 2 0 2 PATHFit 1 and 2 Fili 101 Kontekstwalisadong Komunikasyon sa Filipino 3 0 3 MATH 402 MATH 404 Differential Equations 3 0 3 MATH 402	Code	Course Title	Lec	Lab	Ullius	requisite/s	requisite/s		
PetE 402 Reservoir Geosciences 3 0 3 PetE 401 ENGG 409 Engineering Mechanics 3 0 3 SCI 403 ME 431 Thermodynamics 3 0 3 SCI 403, MATH 402 EE 419 Basic Electrical Engineering 2 3 3 SCI 403, MATH 402 ChE 420 Qualitative and Quantitative Chemistry 2 3 SCI 401 Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor Adventure Activities Menu Offering: 2 0 2 PATHFit 1 and 2 Fili 101 Kontekstwalisadong Komunikasyon sa Filipino 3 0 3 MATH 402 MATH 404 Differential Equations 3 0 3 MATH 402	PetF 401	Introduction to Oil and Gas Industry	3	0	3	ENGG			
ENGG 409 Engineering Mechanics ME 431 Thermodynamics 3 0 3 SCI 403 MATH 402 EE 419 Basic Electrical Engineering ChE 420 Qualitative and Quantitative Chemistry Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor Adventure Activities Menu Offering: (Traditional and Recreational Games) Fili 101 Kontekstwalisadong Komunikasyon sa Filipino MATH 404 Differential Equations 3 0 3 SCI 403 MATH 402 2 3 3 SCI 403, MATH 402 PATHFit 1 and 2 PATHFit 1 and 2	1012 401	•	3	U	3	401			
ME 431 Thermodynamics 3 0 3 SCI 403, MATH 402 EE 419 Basic Electrical Engineering 2 3 3 SCI 403, MATH 402 ChE 420 Qualitative and Quantitative Chemistry 2 3 SCI 401 Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor Adventure Activities Menu Offering: (Traditional and Recreational Games) Fili 101 Kontekstwalisadong Komunikasyon sa Filipino 3 0 3 MATH 402 MATH 404 Differential Equations 3 0 3 MATH 402	PetE 402	Reservoir Geosciences	3	0	3		PetE 401		
EE 419 Basic Electrical Engineering 2 3 3 SCI 403, MATH 402 ChE 420 Qualitative and Quantitative Chemistry 2 3 SCI 401 Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor Adventure Activities Menu Offering: (Traditional and Recreational Games) Fili 101 Kontekstwalisadong Komunikasyon a Filipino 3 0 3 MATH 402 MATH 404 Differential Equations 3 0 3 MATH 402	ENGG 409	Engineering Mechanics	3	0	3	SCI 403			
EE 419 Basic Electrical Engineering 2 3 3 SCI 403, MATH 402 ChE 420 Qualitative and Quantitative Chemistry 2 3 SCI 401 PATHFit 3 Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor Adventure Activities Menu Offering: 2 0 PATHFit 1 and 2 Fili 101 Kontekstwalisadong Komunikasyon as Filipino 3 0 3 MATH 402 MATH 404 Differential Equations 3 0 3 MATH 402	MF 431	Thermodynamics	3	0	3	/			
ChE 420 Qualitative and Quantitative Chemistry 2 3 3 SCI 401 Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor Adventure Activities Menu Offering: 2 0 2 PATHFit 1 and 2 Fili 101 Kontekstwalisadong Komunikasyon as Filipino 3 0 3 MATH 402 MATH 404 Differential Equations 3 0 3 MATH 402	WIL 431	Thermodynamics	<u> </u>	· ·	3	-			
ChE 420 Qualitative and Quantitative Chemistry 2 3 3 SCI 401 Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor Adventure Activities Menu Offering: 2 0 2 PATHFit 1 and 2 Fili 101 Kontekstwalisadong Komunikasyon sa Filipino 3 0 3 MATH 402 MATH 404 Differential Equations 3 0 3 MATH 402	EE 419	Basic Electrical Engineering	2.	3	3				
Chemistry Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor Adventure Activities Menu Offering: (Traditional and Recreational Games) Kontekstwalisadong Komunikasyon sa Filipino MATH 404 Differential Equations 2 3 3 SCI 401 PATHFit 1 and 2 PATHFit 1 and 2	22 119	0 0				MATH 402			
PATHFit 3 Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor Adventure Activities Menu Offering: (Traditional and Recreational Games) Kontekstwalisadong Komunikasyon sa Filipino MATH 404 Differential Equations 3 0 3 MATH 402	ChE 420	*	2	3	3	SCI 401			
PATHFit 3 Group Exercise, Outdoor Adventure Activities Menu Offering: 2 0 2 PATHFit 1 and 2 Fili 101 Kontekstwalisadong Komunikasyon sa Filipino 3 0 3 MATH 404 Differential Equations 3 0 3 MATH 402		J				201.01			
PATHFit 3 Activities Menu Offering: (Traditional and Recreational Games) Fili 101 Kontekstwalisadong Komunikasyon sa Filipino MATH 404 Differential Equations 2 0 2 PATHFit 1 and 2 1 and 2 3 0 3 MATH 402									
(Traditional and Recreational Games) Fili 101 Kontekstwalisadong Komunikasyon sa Filipino MATH 404 Differential Equations 3 0 3 MATH 402	DATHE: 4 2	-	2	0	2	PATHFit			
Games) Fili 101 Kontekstwalisadong Komunikasyon sa Filipino MATH 404 Differential Equations 3 0 3 MATH 402	РАТПГІІ 3		2	U	2	1 and 2			
Fili 101 Kontekstwalisadong Komunikasyon 3 0 3 MATH 404 Differential Equations 3 0 3 MATH 402		`							
Sa Filipino MATH 404 Differential Equations 3 0 3 MATH 402		,							
MATH 404 Differential Equations 3 0 3 MATH 402	Fili 101		3	0	3				
	MATH 404	1	3	0	3	MATH 402			
Total 24 6 26	1411 111 1101	Total	24	6	26	141111111111111111111111111111111111111			

	SECOND YEAR									
	Second Semester									
Course	Course Title	No. of	Hour/s	Unit/s	Pre-	Co-				
Code	Course Title	Lec	Lab	UIIII/S	requisite/s	requisite/s				
PetE 403	Petroleum Geology	2	3	3	PetE 402					
PetE 404	Reservoir Petrophysics with Hydrocarbon Phase Analysis	3	3	4		PetE 403				
PetE 405	Advanced Mathematics for PetE	3	0	3	MATH 404					
EE 422	DC and AC Machinery	2	3	3	EE 419					
ChE 432	Basic Organic Chemistry	2	3	3	SCI 401					
Fili 102	Filipino sa Iba't Ibang Disiplina	3	0	3						
PATHFit 4	Menu of Dance, Sports, Martial Arts, Group Exercise, Outdoor Adventure Activities Menu Offering: (Team Sports, Basketball and Volleyball)	2	0	2	PATHFit 1 and 2					
MATH 403	Engineering Data Analysis	3	0	3	MATH 401					
	Total	20	12	24						

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	THIRD YEAR									
	First Semester									
Course	Common Title	No. of	Hour/s	Unit/s	Pre-	Co-				
Code	Course Title	Lec	Lab	Unit/s	requisite/s	requisite/s				
ENGG 410	Fundamentals of Deformable Bodies	3	0	3	ENGG 409					
ENGG 416	Research Methods	3	0	3	MATH 403					
ENGG 412	Material Science and Engineering	3	0	3	SCI 401					
ME 406	Fluid Mechanics	3	0	3	ME 431					
Litr 102	ASEAN Literature	3	0	3						
ChE 431	Physical Chemistry	2	3	3	ChE 420					
PetE 406	Reservoir Engineering 1	2	3	3	PetE 404					
PetE 407	Formation Evaluation	2	3	3	PetE 404	PetE 408				
PetE 408	Drilling Technology	2	3	3	PetE 403	ENGG 410				
	Total	23	12	27						

	THIRD YEAR									
	Second Semester									
Course	Course Title	No. of	Hour/s	Unit/s	Pre-	Co-				
Code	Course Title	Lec	Lab	UIIIUS	requisite/s	requisite/s				
PetE 409	Reservoir Geomechanics	2	3	3	PetE 403					
PetE 410	Dagamyoir Enginaaring 2	2	3	3	PetE 406,					
Pete 410	Reservoir Engineering 2	2	3	3	PetE 407					
PetE 411	Production Engineering 1	2	3	3	PetE 404					
PetE 412	Fuels and Combustion	3	0	3	ME 431					
PetE 413	PetE Project Study 1	0	3	1	ENGG 416					
ENCC 415	Ni	2	2 2 2	2	3	MATH 404,				
ENGG 415	Numerical Method and Analysis	2	3	3	CpE 401					
ICE 420	Instrumentation and Control	2	2	2	EE 410					
ICE 420	Engineering	2	3	3	EE 419					
ChE 436	Introduction to Unit Operation	3	0	3	ChE 431					
	Total	16	18	22						

	THIRD YEAR									
	Midter	·m								
Course	Commo Tido	No. of	Hour/s	TI:4/a	Pre-	Co-				
Code	Course Title	Lec	Lab	Unit/s	requisite/s	requisite/s				
ENGG 411	Basic Occupational Safety and Health	3	0	3						
ENGG 413	Environmental Science and Engineering	3	0	3	SCI 401					
ENGG 404	Engineering Economics	3	0	3	MATH 402					
	Total	9	0	9						



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FOURTH YEAR										
First Semester										
Course Code	Course Title	No. of Hour/s		Unit/s	Pre-	Co-				
		Lec	Lab	UIIIUS	requisite/s	requisite/s				
PetE 421	Well Test Analysis	3	0	3	4th year Standing					
PetE 415	Project Management for PetE	3	0	3	4th year Standing					
PetE 416	Reservoir Modelling and Simulation	2	3	3	PetE 410, ENGG 415, CpE 401					
PetE 417	Process Plant Engineering	3	0	3	ICE 420, ChE 436					
PetE 418	Production Engineering 2	2	3	3	PetE 411					
PetE 419	Drilling Engineering	2	3	3	PetE 407, PetE 408					
PetE 422	Petroleum Economics	2	0	2	4 th year Standing					
	Total	17	9	20		_				

FOURTH YEAR										
Second Semester										
Course	Course Title	No. of Hour/s		Unit/s	Pre-	Co-				
Code		Lec	Lab	Unit/S	requisite/s	requisite/s				
PetE 420	Plant Design	2	3	3	PetE 415,					
					PetE 417,					
					PetE 418,					
					PetE 419					
ENGG 405	Technopreneurship	3	0	3	4th year					
					Standing					
ENGG 417	On-the-Job Training	320		4	4th year					
					Standing					
PetE 414	PetE Project Study 2	0	3	1	Graduating					
	Total	5	6	11						
GRAND TOTAL UNITS			81	196						