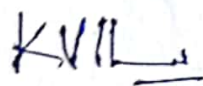


## II Year I Semester

S. No	Category	Course Code	Subject Title	Hours per Week			Credits	Internal	External	Total
				L	T	P				
1	BSC	201HB301	Mathematics-III	3	0	0	3	30	70	100
2	HSMC	201HB305	Managerial Economics and Financial Analysis	3	0	0	3	30	70	100
3	PCC	201HB202	Fluid Mechanics for Petroleum Engineers	3	0	0	3	30	70	100
4	PCC	201HB303	Petroleum Geology	3	0	0	3	30	70	100
5	PCC	201HB304	Process Calculation	3	0	0	3	30	70	100
6	ESC	201PT311	Computational Methods Laboratory	0	0	3	1.5	50	50	100
7	PCC	201PT312	Fluid Mechanics Laboratory	0	0	3	1.5	50	50	100
8	PCC	201PT313	Petroleum Geology Laboratory	0	0	3	1.5	50	50	100
9	SC	201CS381	Programming with Python	0	1	2	2	-	50	50
10	MC	201CS391	Constitution of India	2	0	0	0	30*	70*	100*
Total				17	1	11	21.5	300	550	850
BSC = 3    HSMC = 3    ESC = 1.5    PCC = 12    SC = 2    MC = 0										

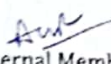
\*Zero credit course marks not counted in total and it is satisfactory course.



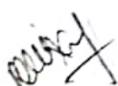
University Nominee  
(Prof. K.V.Rao)



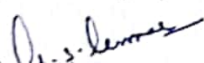
Internal Member  
(Dr. N V R Nagalakshmi)



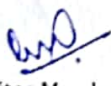
Internal Member  
(Dr. A Venkata Ramana)



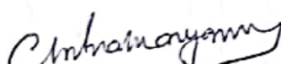
Subject Expert  
(Dr. Ravi Gujjula)



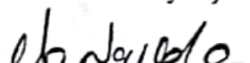
Internal Member  
(Dr. K Siva Kumar)



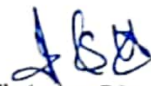
Invitee Member  
(Dr. M V Sekhar Babu)



Subject Expert  
(Dr. C V Subramanyam)



Internal Member  
(Mr. Nagurvali S.K.)



Chairman, BOS  
(Mr Ahammad Sharif)



Industrial Expert  
(Mr. M V S V Prasad)






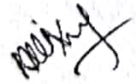
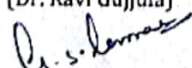

Internal Member  
(Ms K. Balabramini)

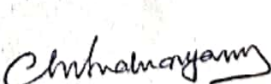
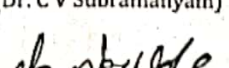

## II Year II Semester

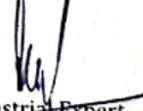

S. No	Category	Course Code	Subject Title	Periods per Week			Credits	Internal	External	Total
				L	T	P				
1	ESC	201PT401	Elements of Mechanical Engineering	3	0	0	3	30	70	100
2	PCC	201PT402	Instrumentation, Process Dynamics & Controls	3	0	0	3	30	70	100
3	PCC	201PT403	Petroleum Exploration	3	0	0	3	30	70	100
4	PCC	201PT404	Process Heat Transfer	3	0	0	3	30	70	100
5	PCC	201PT405	Process Thermodynamics	3	0	0	3	30	70	100
6	PCC	201PT411	Instrumentation, Process Dynamics & Controls Laboratory	0	0	3	1.5	50	50	100
7	PCC	201PT412	Petroleum Analysis Laboratory	0	0	3	1.5	50	50	100
8	PCC	201PT413	Process Heat Transfer Laboratory	0	0	3	1.5	50	50	100
9	SC	201PT414	Engineering Exploration Project	1	0	2	2	-	50	50
Total				16	0	11	21.5	300	550	850
ESC = 3    PCC = 16.5    SC = 2										
Minors course				4	0	0	4	-	-	-

\*At the end of II-Year II semester, students must complete Summer Internship - I.

  
 University Nominee  
 (Prof. K.V.Rao)  
  
 Internal Member  
 (Dr. N V R Nagalakshmi)  
  
 Internal Member  
 (Dr. A Venkata Ramana)

  
 Subject Expert  
 (Dr. Ravi Gujjula)  
  
 Internal Member  
 (Dr. K Siva Kumar)  
  
 Invitee Member  
 (Dr. M V Sekhar Babu)

  
 Subject Expert  
 (Dr. C V Subramanyam)  
  
 Internal Member  
 (Mr. Nagurvali S.K.)  
  
 Chairman, BOS  
 (Mr Ahammad Sharif)

  
 Industrial Expert  
 (Mr. M V S V Prasad)  
  
 Internal Member  
 (MsK.Balabramini)

## III Year I Semester

S. No	Category	Course Code	Subject Title	Periods per Week			Credits	Internal	External	Total
				L	T	P				
1	PCC	201PT501	Drilling & Well Completions	3	0	0	3	30	70	100
2	PCC	201PT502	Petroleum Reservoir Engineering-I	3	0	0	3	30	70	100
3	PCC	201PT503	Well Logging & Formation Evaluation	3	0	0	3	30	70	100
4	PEC		PE-I	3	0	0	3	30	70	100
5	OEC		OE-I	3	0	0	3	30	70	100
6	PCC	201PT511	Drilling Fluids Laboratory	0	0	3	1.5	50	50	100
7	PCC	201PT512	Petroleum Reservoir Engineering Laboratory	0	0	3	1.5	50	50	100
8	SC	201HB581	English for Career	1	0	2	2	-	50	50
9	MC	201MB591	IPR and Patents	2	0	0	0	30*	70*	100*
10	PROJ	201PT531	Summer Internship-I	0	0	0	1.5	100	-	100
Total				18	0	8	21.5	350	500	850
PEC=3 OEC=3 PCC=12 PROJ=1.5 SC=2 MC=0										
Minors course				4	0	0	4			

\* Internal evolution for internal and external examination, satisfactory course

*KVIL*  
University Nominee

*nn nagalakshmi*  
Internal Member  
(Dr. N V R Nagalakshmi)

*Avr*  
Internal Member  
(Dr. A Venkata Ramana)

*Ravi*  
Subject Expert  
(Dr. Ravi Gujjula)

*K. S. Kumar*  
Internal Member  
(Dr. K Siva Kumar)

*Avr*  
Special Invitee Member  
(Dr. M V Sekhar Babu)

*Subramanyam*  
Subject Expert  
(Dr. C V Subramanyam)

*S.K.*  
Internal Member  
(Mr. Nagurvali S.K)

*Charan*  
Chairman, BOS  
(Dr. Charan Kumar Ala)

*M. V. S. V. Prasad*  
Industrial Expert  
(Mr. M V S V Prasad)

*A. Sharif*  
Internal Member  
(Mr Ahammad Sharif)



## III Year II Semester

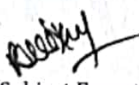
S. No	Category	Course Code	Subject Title	Periods per Week			Credits	Internal	External	Total
				L	T	P				
1	PCC	201PT601	Enhanced Oil Recovery Techniques	3	0	0	3	30	70	100
2	PCC	201PT602	Petroleum Production Engineering	3	0	0	3	30	70	100
3	PCC	201PT603	Petroleum Reservoir Engineering-II	3	0	0	3	30	70	100
4	PEC		PE-II	3	0	0	3	30	70	100
5	OEC		OE-II	3	0	0	3	30	70	100
6	PCC	201PT611	Petroleum Equipment Design Simulation Laboratory	0	0	3	1.5	50	50	100
7	PCC	201PT612	Petroleum Reservoir Simulation Laboratory	0	0	3	1.5	50	50	100
8	PCC	201PT613	Computer Aided Drafting	0	0	3	1.5	50	50	100
9	SC	201PT681	Applications of ML in Petroleum Engineering	1	0	2	2	-	50	50
10	MC	201HB691	Quantitative Aptitude and Reasoning	2	0	0	0	30*	70*	100*
Total				18	0	11	21.5	300	550	850
PEC=3    OEC=3    PCC=13.5    SC=2    MC = 0										
Minors course				4	0	0	4			

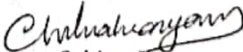
\*Internal evolution for internal and external examination, satisfactory course

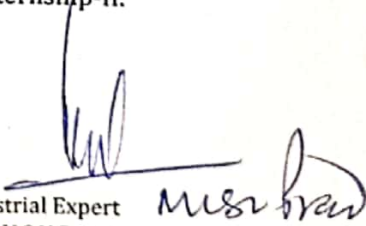
\*At the end of III Year II Semester, students must complete summer internship-II.

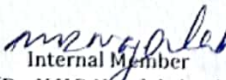
\*In case of exigency, students should take Community Service Project in place of summer internship-II.

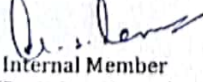
  
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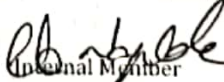
  
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(Dr. Ravi Gujjula)

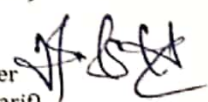
  
Subject Expert  
(Dr. C V Subramanyam)

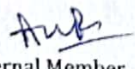
  
Industrial Expert  
(Mr. M V S V Prasad)

  
Internal Member  
(Dr. N V R Nagalakshmi)

  
Internal Member  
(Dr. K Siva Kumar)

  
Internal Member  
(Mr. Nagurvali S.K)

  
Internal Member  
(Mr. Ahammad Sharif)

  
Internal Member  
(Dr. A Venkata Ramana)

  
Special Invitee Member  
(Dr. M V Sekhar Babu)

  
Chairman, BOS  
(Dr. Charan Kumar Ala)

## IV Year I Semester

S. No	Category	Course Code	Subject Title	Periods per Week			Credits	Internal	External	Total
				L	T	P				
1	PEC		PE-III	3	0	0	3	30	70	100
2	PEC		PE-IV	3	0	0	3	30	70	100
3	PEC		PE-V	3	0	0	3	30	70	100
4	OEC		OE-III	3	0	0	3	30	70	100
5	OEC		OE-IV	3	0	0	3	30	70	100
6	HSMC	201HB781	*UHV-II	3	0	0	3	50	50	100
7	PROJ	201PT731	Summer Internship-II	0	0	0	3	100	-	100
8	SC	201PT781	Computer Aided Pipe Line Design	1	0	2	2	-	50	50
Total				19	0	2	23	300	450	750
PEC=9 OEC=6 HSMC =3 PROJ=3 SC=2										
Minors course				4	0	0	4			

\*UHV syllabus will be the AICTE approved syllabus as given in Vol. II AICTE UG Curriculum as in Annexure I

*KVIL*  
University Nominee

*Ravi Gujjula*  
Subject Expert  
(Dr. Ravi Gujjula)

*Chirahanyam*  
Subject Expert  
(Dr. C V Subramanyam)

*MVSVP*  
Industrial Expert  
(Mr. M V S V Prasad)

*NVR Nagalakshmi*  
Internal Member  
(Dr. N V R Nagalakshmi)

*K Siva Kumar*  
Internal Member  
(Dr. K Siva Kumar)

*Nagurvali S.K*  
Internal Member  
(Mr. Nagurvali S.K)

*Ahammad Sharif*  
Internal Member  
(Mr Ahammad Sharif)


*A Venkata Ramana*  
Internal Member  
(Dr. A Venkata Ramana)


*M V Sekhar Babu*  
Special Invitee Member  
(Dr. M V Sekhar Babu)


*Charan Kumar Ala*  
Chairman, BOS  
(Dr. Charan Kumar Ala)


## IV Year II Semester

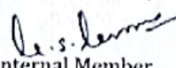
S. No	Category	Course Code	Subject Title	Periods per Week			Credits	Internal	External	Total
				L	T	P				
1	PROJ	201PT841	Project (Project work, Seminar and Internship in industry)	0	0	0	12	60	140	200
Total				0	0	0	12	60	140	200
PROJ=12										


  
University Nominee  
(Prof. K.V.Rao)

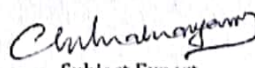
  
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(Dr. N V R Nagalakshmi)

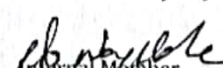
  
Internal Member  
(Dr. A Venkata Ramana)


  
Subject Expert  
(Dr. Ravi Gujjula)


  
Internal Member  
(Dr. K Siva Kumar)


  
Invitee Member  
(Dr. M V Sekhar Babu)

  
Subject Expert  
(Dr. C V Subramanyam)

  
Internal Member  
(Mr. Nagurvali S.K.)

  
Chairman, BOS  
(Mr Ahammad Sharif)

  
Industrial Expert  
(Mr. M V S V Prasad)

  
Internal Member  
(MsK.Balabramini)




## PROFESSIONAL ELECTIVE COURSES

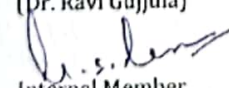
S No	Semester	Course Code	Courses	L	T	P	C
PE-I	V	201PT564A	Fundamentals of Liquefied Natural Gas	3	0	0	3
		201PT564B	Flow through Porous Medium				
		201PT564C	Pipeline Engineering				
		201PT564D	Petroleum Refining and Petrochemical Engineering				
PE-II	VI	201PT664A	Surface Production Operations	3	0	0	3
		201PT664B	Carbon Dioxide Sequestration				
		201PT664C	Reservoir modeling and Simulation				
		201PT664D	Transport Phenomena				
PE-III	VII	201PT761A	Subsea Engineering	3	0	0	3
		201PT761B	Advances in Well Control				
		201PT761C	HSE in Petroleum Industry				
		201PT761D	Coal Bed Methane Engineering				
PE-IV	VII	201PT762A	Advanced Well Completion Engineering	3	0	0	3
		201PT762B	Oil and Gas Processing Plant Design				
		201PT762C	Natural Gas Engineering				
		201PT762D	Geothermal Reservoir Engineering				
PE-V	VII	201PT763A	Horizontal Well Technology	3	0	0	3
		201PT763B	Offshore Engineering				
		201PT763C	Shale Gas Reservoir Engineering				
		201PT763D	Advanced Drilling Operations				

  
University Nominee

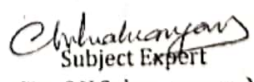
  
Internal Member  
(Dr. N V R Nagalakshmi)

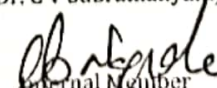
  
Internal Member  
(Dr. A Venkata Ramana)

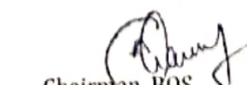
  
Subject Expert  
(Dr. Ravi Gujjula)


  
Internal Member  
(Dr. K Siva Kumar)

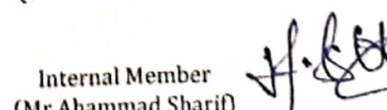
  
Special Invitee Member  
(Dr. M V Sekhar Babu)

  
Subject Expert  
(Dr. C V Subramanyam)

  
Internal Member  
(Mr. Nagurvali S.K)

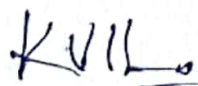
  
Chairman, BOS  
(Dr. Charan Kumar Ala)


  
Industrial Expert  
(Mr. M V S V Prasad)

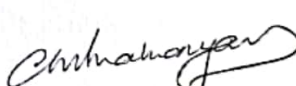
  
Internal Member  
(Mr Ahammad Sharif)

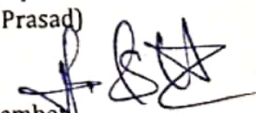
### OPEN ELECTIVE COURSES


S. No.	Semester	Course Code	Courses	L	T	P	C
OE-I	V	201PT565a	Fundamentals of Petroleum Engineering	3	0	0	3
OE-II	VI	201PT665a	Basic Concepts in Petroleum Drilling Engineering	3	0	0	3
OE-III	VII	201PT763a	Introduction to Petroleum Production Engineering	3	0	0	3
OE-IV	VII	201PT764a	Basic concepts in Petroleum Reservoir Engineering	3	0	0	3

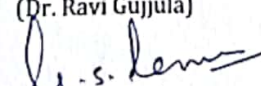
  
University Nominee

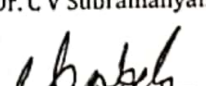
  
Subject Expert  
(Dr. Ravi Gujjula)

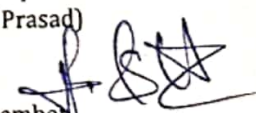
  
Subject Expert  
(Dr. C V Subramanyam)

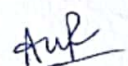
  
Industrial Expert  
(Mr. M V S V Prasad)

  
Internal Member  
(Dr. N V R Nagalakshmi)

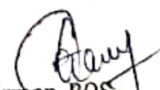
  
Internal Member  
(Dr. K Siva Kumar)

  
Internal Member  
(Mr. Nagurvali S.K)

  
Internal Member  
(Mr Ahammad Sharif)

  
Internal Member  
(Dr. A Venkata Ramana)

  
Special Invitee Member  
(Dr. M V Sekhar Babu)

  
Chairman, BOS  
(Dr. Charan Kumar Ala)