DEPARTMENT OF GENERAL ENGINEERING ACTIVITY REPORT 2019 - 2020

PAC MEETING



Pac meeting conducted for firstyear general engineering on 14.6.2019

APEX MEETING:

Apex Committee meeting was held on 19.06.2019. The members of all the departments of PAC and APEX committee have gone through the present C scheme syllabus and approved the same

4 AWARDS RECEIVED BY THE FACULTY / STUDENTS

• FACULTY:

I SEMESTER

➤ **13** Centum results were produced in October 2019 I semester Examinations.

Subject code	subject	Name of the faculty	Section wise
101	Communiction English-I	Ms. R.Ramani Devi	D
		Ms. S.Uma	E,B,F
		Ms. D.Britishiya	A
102	Engg. Mathematics - I	Mr. G. Senthilkumar	С
105	Engg. Chemistry - I	Ms. L. Sasikala	В

		Ms. G. Sengodi	A,E
106	Engg. Graphics - I	Mr. S. Michael Raj	E
		MrA.JahirHussian	D,B
		Mr .A.Freeman	Α

II SEMESTER:

➤ **36**Centum results were produced in April 2020 II semester Examinations.

Subject code	subject	Name of the faculty	Section wise
201	Communiction English-II	Ms. R.Ramani Devi	C,D
		Ms. S.Uma	E,B,F
		Ms. D.Britishiya	Α
202	Engg. Mathematics - III	Ms.P.Santhi	A, F
		Ms. K.Neelavathi	C,E
		Mr. G. Senthilkumar	B,D
203	Engg. Mathematics - IV	Ms.P.Santhi	B, E
		Ms. K.Neelavathi	A,D
		Mr. G. Senthilkumar	С
104	Engg Physics-II	Ms. G. Shanthi	E,F
		Ms. S.Balamurugan	C,D
		Ms. P. Gayathri	A,B
105	Engg. Chemistry - I	Ms. L. Sasikala	В
		Ms. G. Sengodi	A,E
106	Engg. Graphics - I	Mr. S. Michael Raj	Е
		MrA.JahirHussian	B,D,F
		Mr .A.Freeman	A,C

STUDENTS:

SPORTS AWARDS:

> The following first year students got the athletic track and field events .

S.NO	EVENT	NAME OF THE	DEPARTMENT	PRIZE

		STUDENT		
1.	Shot put	K. Sriramar	ECE	I
2.	100 MTS	K. Sriramar	ECE	H
3.	Long jump	K. Sriramar	ECE	I
4.	200 mts	B.Susmanth	ECE	I
5.	400 Mts	M.Dharani	AA	111
6.	4x 100 mts	S.Abirami	AA	I
	relay	S.A.Kaviya		
		K.Sowmiya		
		M.Dharani		
7.	Volley ball	S.Abirami	AA	winner
		S.A.Kaviya		
		K.Sowmiya		
		M.Dharani		
8.	Volley ball	M.Divya	AA	Runner
		P.K. Gopikashri		
9.	Throw ball	S.Abirami	AA	Winner
		S.A.Kaviya		
		K.Sowmiya		
		M.Dharani		

➤ The following first year students participated in the Divisional Tournament at Kongunadu Polytechnic College Thottiyamfrom 28.01.2020 to 30.01.2020.

S.no	EVENT	NAME OF THE STUDENT	DEPARTMENT	PRIZE
1.	Chess	S.Abirami	AA	Runner
		S.A.Kaviya		
		P.K. Gopikashri		
2.	Hand ball	S.Abirami	AA	III
		M.Divya		

		P.K. Gopikashri		
3.	KhoKho	S.Abirami	AA	I II
		M.Divya		
		P.K. Gopikashri		
		S.A.Kaviya		
4.	Volley ball	S.Abirami	AA	IV
		M.Divya		
		P.K. Gopikashri		
8.	Basket ball	D.Viswanathan	EEE	Runner
		KJ. AdvaithViswa	AA	
		K. Dhanush	ECE	
9.	Hockeyl	H.S.Alideen	ECE	Winner
		S. Harish	ECE	
		R. NizarKani	СТ	
		A. Abbas Mandri	СТ	

DEPARTMENT ACTIVITIES RESULTS:

OCTOBER 2019 - I SEMESTER

OVERALL PERCENTAGE: 80 %

S.No.	Department	Numbe	Number of Students		
		Appeared	Passed	failed	
1.	ARCH	27	23	4	85
2	CIVIL	24	22	2	92
3	СТ	44	33	11	75
4	ECE	50	32	18	64
5	EEE	59	47	12	80
6.	MECH	118	99	19	84
	TOTAL	322	256	66	80

APRIL 2020 - II SEMESTER

OVERALL PERCENTAGE: 100 %

S.No.	Department	Number of Students			Percentage
		Appeared	Passed	failed	
1.	ARCH	27	27	-	100
2	CIVIL	24	24	-	100
3	СТ	40	40	-	100
4	ECE	51	51	-	100
5	EEE	58	58	-	100
6.	MECH	113	113	-	100
	TOTAL	313	313	-	100

TOPPERS IN OCT2019 AUTONOMOUS EXAMINATIONS <u>I SEMESTER</u>

S.NO	NAME OF THE STUDENT	DEPARTMENT	MARK SCORED	RANK
			(900)	
1	ABIRAMI.S	ARCH	894	I
2	DIVYA.M	ARCH	886	[]
3	AHALYA.S	ARCH	871	III
4	GOBIKA SRI.P.K	ARCH	828	IV
5	TAMIL KUMARAN.S	MECH	812	V
6	FIRDHOUS SHAHNAS.R	ARCH	808	VI
7	VISHNUVARMA.S	MECH	799	VII
8	VIJAY.R	MECH	792	VIII
9	KANNA.N	СТ	785	IX
10	ANNAKAMATCHI.R	ECE	769	Х

TOPPERS IN APR 2020 AUTONOMOUS EXAMINATIONS II SEMESTER

S.NO	NAME OF THE STUDENT	DEPARTMENT	MARK SCORED	RANK
			(900)	
1	ABIRAMI.S	ARCH	900	I
2	AHALYA.S	ARCH	890	II
3	DIVYA.M	ARCH	890	II
4	FIRDHOUS SHAHNAS.R	ARCH	872	IV
5	GOBIKA SRI.P.K	ARCH	872	IV
6	KANNA.N	СТ	867	VI
7	TAMIL KUMARAN.S	MECH	858	VII
8	SHEIK ABDULLA.A	MECH	856	VIII
9	ANNAKAMATCHI.R	ECE	850	IX
10	DHARANI.M	ARCH	850	IX

Autono

mous Examination Results October - 2019

➤ The following 22 students Secured Centum Marks in the October-2019 Autonomous Examination.

S.NO	NAME OF THE	BRANCH	SUBJECT	FACULTY HANDLED
3.110	STUDENTS	DIVANCII	JOBSECT	TACOLIT HANDLED
1	ABIRAMI.S	ARCH	ENGINEERING MATHEMATICS -I	Ms.P.SANTHI
			ENGINEERING MATHEMATICS -II	
			ENGINEERING PHYSICS -I	
			ENGINEERING CHEMISTRY -I	Ms.G.SENGODI
2	AHALYA.S	ARCH	ENGINEERING CHEMISTRY -I	Ms.G.SENGODI
3	DEVI.C	ARCH	ENGINEERING CHEMISTRY -I	Ms. G.SENGODI
4.	DHARANI.M	ARCH	ENGINEERING CHEMISTRY -I	Ms. G.SENGODI
5.	FIRDHOUS	ARCH	ENGINEERING CHEMISTRY -I	Ms. G.SENGODI

6.			T. Control of the con	
0.	DIVYA.M	ARCH	ENGINEERING MATHEMATICS -I	Ms.K.NEELAVATHI
			ENGINEERING MATHEMATICS -II	Ms.P.SANTHI
			ENGINEERING CHEMISTRY -I	Ms. G.SENGODI
7.	GOBIKA SRI.P.K	ARCH	ENGINEERING CHEMISTRY -I	Ms. G.SENGODI
8.	AYYAPPAN.R	СТ	ENGINEERING CHEMISTRY -I	Dr. H.PARVEEN
				Ms.L.SASIKALA
9.	KANNA.N	СТ	ENGINEERING CHEMISTRY -I	Dr. H.PARVEEN
				Ms.L.SASIKALA
10.	MADHAVAN.P	СТ	ENGINEERING CHEMISTRY -I	Dr. H.PARVEEN
				Ms.L.SASIKALA
11.	ANNAKAMATCHI.R	ECE	ENGINEERING CHEMISTRY -I	Dr. H.PARVEEN
				Ms. G.SENGODI
12.	DHINAGAR.S	EEE	ENGINEERING CHEMISTRY -I	Ms.L.SASIKALA
13.	DHINESH.R	EEE	ENGINEERING CHEMISTRY -I	Ms.L.SASIKALA
14.	YUGENDIRAN.D	EEE	ENGINEERING CHEMISTRY -I	Ms.L.SASIKALA
15.	AJITH.L	MECH	ENGINEERING CHEMISTRY -I	Ms. G.SENGODI
16	ESWARA MOORTHY.B	MECH	ENGINEERING CHEMISTRY -I	Ms. G.SENGODI
17	NAVEENKUMAR.G	MECH	ENGINEERING CHEMISTRY -I	Ms. G.SENGODI
18	SATHEESH.G	MECH	ENGINEERING PHYSICS -I	Ms.P. GAYATHRI
			ENGINEERING CHEMISTRY -I	Ms. L.SASIKALA
19	TAMIL KUMARAN.S	MECH	ENGINEERING CHEMISTRY -I	Ms.L.SASIKALA
20	VIGNESH.R	MECH	ENGINEERING CHEMISTRY -I	Ms. L.SASIKALA
21	VIJAY.R	MECH	ENGINEERING CHEMISTRY -I	Ms.L.SASIKALA
			ENGINEERING PHYSICS -I	Ms.P. GAYATHRI
22	VISHNUVARMA.S	MECH	ENGINEERING CHEMISTRY -I	Ms.L.SASIKALA
			ENGINEERING GRAPHICS -I	Mr.A. JAHIRUSSAIN

AUTONOMOUS EXAMINATION RESULTS APRIL -2020

> The following student Secured Centum Marks in the April -2020Autonomous Examination

SI.No	Name of the Students	Branch	Subject	Faculty Handled
1	S.ABIRAMI	ARCH	COMMUNICATION ENGLISH-II	Ms.S.Uma
			ENGG. MATHEMATICS-III	Ms. K.Neelavathi
			ENGG. MATHEMATICS- IV	MsP.Santhi
			ENGG. PHYSICS -II	Ms. G. SHANTHI
			ENGG. CHEMISTRY -II	Ms. G.Sengodi
			ENGG GRAPHICS -II	Mr. S. Michael raj

> INDUCTION PROGRAMME:

When new students enter an Institution , they come with diverse thoughts , backgrounds and preparation . To help them adjust to the new environment and inculcate in them the ethos of the institution of larger purpose an orientation programme called Induction Programme was conducted for one week from 17.06.2019 to 21.06.2019.

Normal classes started only after the Induction Programme is over . Its purpose is to make the students feel comfortable in the new environment , create bonding in the batch as well as between the faculty and students.



I YEAR INAUGURAL FUNCTION 2019



Principal Addressing the Parents of I Year



Yoga conducted during Induction Programme



Inter departmental Visit arranged during induction programme

ANNAI MANIAMMAIYAR 100 TH BIRTHDAY CELEBRATION :

- First Year students planted saplings in our college campus on theAnnaiManiammaiyar 100 th Birthday celebration :
 Principal addressed the students of I year regarding AnnaiManiammaiyar
- Contribution towards society.



SCIENCE EXIHIBITION:

First Year students participated in the Science Exihibition which is conducted to create a scientific temper and also to gain a thorough knowledge in the basic science subjects..



FOUNDERS DAY CELEBRATION:

> BLOOD DONATION CAMP

The students of First year participated in the Blood Donation camp conducted for the celebration of our Founder Chairperson's birthday.

> TREE PLANTATION:

The students of First year participated in the Tree Plantation conducted for the celebration of our Founder Chairperson's birthday.



> ESSAY COMPETITION:

The students of First year participated in the essay Competition conducted for the celebration of our Founder Chairperson's birthday.

DRAWING COMPETITION:

The students of First year participated in the Drng Competition conducted for the celebration of our Founder Chairperson's birthday.

PARENTS-TEACHERS MEETING:

Parents Teachers meeting was organized on 13.01.2020. Feedback forms were collected and analysed. 200 parents have attended the meeting. They were informed about their wards. Academic Performance, Attendnce Particulars and also about the coaching classes conducted to the failure students.



E-QUIZ:

> E-Quiz Conducted by our staff members at our Polytechnic during the pandemic situation for various subjects.

S.NO	TOPIC	DURATION	NO.OF STUDENTS PARTICIPATED
1.	E-Quiz on Basics of Physics	18.06.20 – 30. 06.20	132
2.	E-Quiz on Basic Chemistry	18.06.20 – 30. 06.20	90
3.	E-Quiz on Basic Mathematics	18.06.20 – 30. 06.20	98

STAFF DEVELOPMENT PROGRAMME:

ONLINE QUIZ:

The following staffmembers of I Year haveattended the Online Quiz conducted by variousPolytechnic and have got Appreciation Certificates during the Corona Virus Pandemic time.

S.No.	Faculty Name	Subject	Topic	Name of the
				Polytechnic

1.	Mc. G. Shanthi	Physics	E-QuiZ on Basic Physics	SSPT Polytechnic College,Puthur
2.	Mr. R.Ayyanathan	English	E- QuiZ on soft skill	AMK Technology Polytechnic College, Chennai
3.	Ms. P.Santhi	Mathematics	Online Quiz on Statics	Sankar Polytechnic College ,Thirunelveli
4.	Ms. K. Neelavathi	Mathematics	Amazing facts about Mathematics	Sankar Polytechnic College ,Thirunelveli
5.	Ms. G. Sengodi	Chemistry	Basics Chemistry	Govt. Polytechnic College , Mellur
6.	Ms. S. Uma	English	E QuiZ on English Grammer	Govt. Polytechnic College , Mellur
7.	Ms. S. Jayasudha	Mathematics	Online Quiz on Mathematics	VDP Polytechnic College, Nagapattinam
8.	Ms. M. Gayathri	Physics	Basics of Physics	ADJD Polytechnic College, Nagapattinam

YOGA CLASS:

All the faculty of I Year attended the Yoga Classes organized by the Staff Development cell at our institution to enrich our health and to be fit and fine..

HEALTH AWARENESS PROGRAMME:

All the faculty of I Year attended the Corona Virus Awareness Programme Organizedbythe Staff Development cell at our institution which highlighted the preventive measures that are to be followed during this Pandemic situation.

EXTRA CURRICULAR ACTIVITIES:

NCC:

- ➤ 12 Girl cadeSt are enrolled for the academic year 2019 2020
- ➤ 21BoyscadetS are enrolled for the academic year 2019 2020

NSS:

- ➤ 100 students of I Year have attended the NSS rally to create Awareness on Road Safety.
- > 100 students of I Year have attended the NSS rally on Water Conservation was conducted on 22. 07.2019
- ➤ I year students participated in the Awareness on Usage of Fire Extinguisher was conducted on 19.08.2019 .
- > 50 students have attended the NSS Special Camp held at Kuruvadipatti From 24.02.2020 to01.03. 2020.



PERSONALITY DEVELOPMENT PROGRAMME

➤ MrPeriyarselvam gave a speech to the I year students on OrganisationBehaviour and Periyar thoughts.



➤ Mr Richard Raj delivered a lecture on communication English to the I year students to develop their spoken English.



MrR.Ayyanathan gave a speech to the First students during the Induction Programme on "Personality Development" and "Adolescent Difficulties".



COMMUNICATION ENGLISH -I

Changes incorporated from 'DOTE' 'N' scheme to 'D' scheme

S.NO	SUBJECT	UNIT	ADDITION	DELETION	REMARKS
1.			Singular and Plural numbers in English	-	Added to apply functional grammar to pristine presentations in English.
			Note-making and Summarizing.	_	Added to enrich note taking skill.
		UNIT - 3 Situational English	Rearranging Jumbled Words	-	Added to enhance the vocabulary enrichment to cater to the need of changing linguistic environment.
		UNIT – 4 Creative English	Describe your travel experience/ Hobbies / Excursion.	-	Added to understand and acquire new creative ideas to frame new sentences.
		UNIT – 5 English for Scholarly Presentations	Poem Mending wall- by Robert Frost	-	Added to acquire and employ new structures in scholarly presentations.

COMMUNICATION ENGLISH -I

S.NO	SUBJECT	ADDITION	DELETION	REMARKS
	COMMUNICATION ENGLISH -I D101	UNIT –IParts of speech,Functional Units		*As per Dote 'N' Scheme syllabus.
		Framing yes/ no question,Active& passive voice		* Shifted from II sem to I sem as per Dote 'N' Scheme Syllabus.
		Framing wh- questionPreposition.		* Shifted from II unit to I unit as per Dote 'N' scheme Syllabus.
		• Singular & Plural		Added to apply functional grammar to pristine presentations in English.
		UNIT II Vocabulary Enrichment		*As per dote 'N' scheme syllabus
		 Homophones 		* Shifted from I Unit to II Unit as per Dote 'N' Scheme Syllabus.
		 Note-making and Summarizing 		*Added to enrich the note taking skill to store the main points.
			Odd wordsOdd wordsbased on verbform	Removed as per Dote 'N' scheme syllabus
		UNIT III Situational English		*As per dote 'N' scheme Syllabus
		 Short message for e-communication Writing the essentials 		*Shifted from IV Unit to III unit as per Dote 'N' Scheme Syllabus.

		1
 Letter writing for academic purpose. 		*Shifted from V Unit to III unit as per Dote 'N' Scheme Syllabus.
 Comprehension 		*Shifted from I unit to III Unit as per Dote 'N' Scheme Syllabus.
 Re-arranging jumbled words 		Added to enhance the skill of framing sentences.
	Conversion of sentenceClauseArticles	Removed as per Dote 'N' scheme syllabus
 NIT IV Review writing (Book/movie/Tv programme Visual description Advertisement writing Word could Transforming verbal passage into graphics 		*As per Dote 'N' scheme syllabus
 Describe your travel experience / Hobbies/ Excursion. 		*Added to develop the creative skill of the students.
	Instruction for directionLinkers	Removed as per Dote 'N' scheme syllabus
UNIT V English for scholarly presentation/ Fluency • "A Snake in the Grass" by R.K. Narayan • "Of Parents andChildren" by Francis Bacon • "On His Blindness" by John Milton • "When I Have Fears" by John Keats • Mending Wall by		* As per Dote 'N' scheme syllabus.
Robert frost		*Added to improve the

			scholarly presentation and fluency of the students.
	•	Prose Of trains and travelers Global warming Poetry	Removed as per Dote 'N' scheme syllabus
	•	Норе	

COMMUNICATION SKILL PRACTICAL (Included in I sem, as per DOTE 'N' scheme) Changes incorporated from 'DOTE' 'N' scheme to 'D' scheme

COURSE & Course	UNIT	ADDITION	DELETION	REMARKS
Code				
COMMUNICATION	UNIT – 1			As per Dote 'N'
SKILL	Listening			scheme syllabus.
PRACTICAL	Skill			
&		Introduction to		To improve their
D108		Phonetic		pronunciation skill.
	UNIT – 2			
	Reading			As per Dote 'N'
	Skill	-	_	scheme syllabus.
	UNIT - 3			As per Dote 'N'
	Speaking			scheme syllabus.
	Skill			-
		Role play		To enhance the
				conversational skill
	UNIT – 4			
	Writing	-	-	As per Dote 'N'
	Skill			scheme syllabus.

PERIYAR CENTENARY POLYTECHNIC COLLEGE VALLAM – THANJAVUR- 613 403 FIRST YEAR GENERAL ENGINEERING

ENGINEERING MATHEMATICS - I

Changes incorporated from N scheme of DOTE to D scheme

Semester : I

Subject Code: D 102

ENGINEERING MATHEMATICS – I

S.No	SUBJECT	ADDITION	DELETION	REMARKS
1		Unit -1	-	Able to enhance
		Types of Eigen values		the knowledge of
				Eigen vectors.
2		Unit -II	-	To acquire the
		Argand diagram- 3 points		knowledge of
		Form a triangle (Equilateral,		triangle
		isosceles, right angle		
	ENCINEEDING	triangle)		
	ENGINEERING MATHEMATICS –I	-		
3	D102	Unit -III	-	More knowledge
	2102	Laws of secant and Laws of		about inverse
		cosecant		trigonometric
				functions
4		Unit -IV	-	As per DOTE
				N - scheme
				syllabus
5		Unit -V	-	As per DOTE
				N - scheme
				syllabus

ENGINEERING MATHEMATICS- I

S.No	Subject	Addition	Deletion	Remarks
1.				In D Scheme EM-I and EM-II are merged into EM-I
		UNIT I		
	ENGG MATHS-I	Applications of Matrices and determinants: Reducing a matrix into triangular and echelon form Properties of determinants, product of determinants Matrix inversion method Guassian Elimination method-simple problems Characteristic equation-Eigen values, & Eigen vectors of real matrix-Consistency & inconsistency of system		As per DOTE N-Scheme
	D102	of linear equations.		To acquire deep knowledge about Eigen values
		Types of Eigen values		Shifted from unit II to unit I
		Binomial Theorem		To gain knowledge about applications of Binomial Theorem
		Applications of Binomial		

theorem-Finding the reminder - digit of a number and greatest term- simple problems	
UNIT II Complex Number	Shifted from EM- II to EM-I
Demoivre's Theorem and its Applications	Shifted from EM- IV to EM-I
Argand diagram- Three points form a triangles(Equilateral, isosceles & right angle triangle)	To understand the applications of complex numbers
Applications of complex numbers: Ac circuits definitions-impedance and admittance – simple problems.	As per DOTE N-Scheme.

	LIMI	T III		
		T III		Chifted from Unit IV/ to Unit III
	Ing	onometry-l		Shifted from Unit IV to Unit III
3.	Tria	onometry-II		Shifted from Unit V to Unit III
J.	1119	onometry-n		
		 Trigonometric functions- 		
		properties of		
		Trigonometric functions -		
		Relation between degree		As per DOTE N-Scheme
		&Radian measure-simple		•
		problems.		
		 Applications of radian 		
		measure- Length of an		
		arc of a sector-Linear and		
		angular velocity		
		Properities of triangle-		
		Law of sines, Law of		
		cosines, principal value -		
		properties of inverse trigonometric functions-		
		simple problems.		
		simple problems.		
				To acquire more knowledge
	Law	of secant, Law of cosecant		about inverse trigonometric
		•		functions.
			A 1 (* 1	OLIG LA ENATI
			Analytical	Shifted to EM-II
4	LIAU	T 1\/	geometry	
4.	UNI	T IV	Circles and	Shifted to EM-II
			family of circles	Silited to EW-II
			Olloica	
	Diffe	erential calculus –l		Shifted from EM-II to EM-I
		its-Differentiation,		
		erentiation methods		
			Applications of	Shifted to EM-II
			differentiation	
	.			
		onometrical limits -other		
		ts-Applications of limits -		
		ple problems. erentiation:		
	וווטן	oronialion.		

	Chainrule-simple problems Derivatives of parametric functions. Differentiation of one function with respect to another function -simple problems.	As per DOTE N-Scheme
5.	UNIT V Successive differentiation	Shifted from EM-II to EM-I
	Differential calculus –II Geometrical Applications	As per DOTE N-Scheme
	Partial differentiation:	Shifted from EM-IV to EM-I

PERIYAR CENTENARY POLYTECHNIC COLLEGE VALLAM – THANJAVUR- 613 403 FIRST YEAR GENERAL ENGINEERING

ENGINEERING PHYSICS-I

changes incorporated from N scheme of DOTE to D scheme

S.NO	SUBJECT	ADDITION	DELETION	REMARKS
1.	ENGINEERING PHYSICS –I	UNIT –I SI units and Statics		
	& D103	Experiment to verify the principle of moments. UNIT-II	-	To acquire knowledge in principle of moments.
		Properties of matter Derivation of stoke's formula by the methods of dimension for highly viscous liquid.	-	Able to derive the stoke's formula.
		UNIT-IV Dynamics –II Kepler's law of planetary motion.	-	For understanding planetary motion.
		UNIT-V Sound and Magnetism Basic properties of magnetism - Properties of magnetic materials dia, para, ferro magnetic materials.	-	Gain knowledge about magnetic materials &its different properties.

ENGINEERING PHYSICS –I Changes incorporated from C scheme to D scheme

S.NO	SUBJECT	ADDITION	DELETION	REMARKS
1	ENCINEEDING	UNIT –I	-	As non DOTE N
1.	ENGINEERING PHYSICS –I	SI units and Statics		As per DOTE N Scheme
	& &	Conversion of horse power to watt and Calorie to joule .		Scheme
	D103	watt and Caloffe to Joule .		
	2100	Experiment to verify the		For understanding
		principle of moments		the principle of
				moments
		UNIT-II		
		Properties of matter		Shifted from II sem
				to I sem
		Derivation of stoke's formula		Able to derive the
		by the methods of dimension		Stoke's formula
		for highly viscous liquid.		
			Thermodynamics,	Shifted from I sem
			Liquefaction of	to II sem
			gases, Non conventional energy	
		UNIT –III	-	
		Dynamics –I		No change.
		UNIT-IV		
		Dynamics –II		Shifted from II sem
				to I sem
		Kepler's law of planetary		For understanding
		motion.		planetary motion.
		motion.		praneury motion.
			Electricity	Shifted to II sem
		I DITE V		from I sem
		UNIT-V		
		Sound and Magnetism:		To gain knowledge
		Basic properties of magnetism		about magnetic
		-Properties of magnetic		materials and its
		materials Para,dia, ferro		different properties
		magnetic materials.		

ENGINEERING PHYSICS PRACTICAL-I

changes incorporated from N scheme of DOTE to D scheme

S.NO	SUBJECT	ADDITION	DELETION	REMARKS
1.	ENGINEERING PHYSICS PRACTICAL-I D107			• In DOTE physics practical semester exam conducted in II semester only.
				• Instead of this it is proposed to conduct Physics practical exam in both I sem and II sem.
				• All the First 8 experiments of N scheme are to conducted in I semester.
		9. To verify the Principle of moments .		To understand the concept of principle of moments.
		10. Mini project – any one of the application.		Mini projects may be given to group of students to create scientific temper and for hands –on experience.

ENGINEERING PHYSICS PRACTICAL-I

S.NO	SUBJECT	ADDITION	DELETION	REMARKS
1.	ENGINEERING PHYSICS PRACTICAL-I & D106	 Stokes Experiment Comparison of Viscosities Parallelogram law Lami's theorem To verify the Principle of moments Mini project – any one of the application. 		In DOTE Physics practical semester exam conducted in II semester only. Instead of this it is proposed to conduct Physics practical exam in both I sem and II sem All the First 8 experiments of DOTE N scheme are conducted in I semester. Shifted from II semester Concurrent Forces Experiment is divided into two experiments. To understand the concept of principle of moments Mini projects may be given to group of students to create scientific temper and for hands —on experience
			1.Laws of Resistances 2. Joule's calorimeter 3. Copper Voltameter	Shifted to II semester.
			1.Potentiometer 2.Meter bridge	Removed in DOTE N scheme syllabus.

ENGINEERING PHYSICS PRACTICAL-II

changes incorporated from N scheme of DOTE to D scheme

S.NO	SUBJECT	ADDITION	DELETION	REMARKS
1.	ENGINEERING PHYSICS PRACTICAL-II D207		-	• In DOTE physics practical semester exam conducted in II semester only.
				 Instead of this it is proposed to conduct Physics practical exam in both I sem and II sem. All the remaining 8 experiments of DOTE N scheme are to be conducted in II semester.
		9. To verify the Ohm's Law 10. Mini project – any one of the application.	-	To understand the concept of Ohm's Law Mini projects may be given to group of students to create scientific temper and for hands –on experience
			Young's modulus- uniform bending	Removed in DOTE N scheme syllabus

	method	

ENGINEERING PHYSICS PRACTICAL-II

S.NO	SUBJECT	ADDITION	DELETION	REMARKS
1.				All the remaining
	ENGINEERING			8 experiments of
	PHYSICS			N scheme are to
	PRACTICAL-II			be conducted in
	&			II semester.
	D206	 Laws of Resistances 		Shifted from
		 Joule's calorimeter 		I sem to II sem
		 Copper voltameter 		
		 To verify the Ohm's 		To understand the
		Law		concept of Ohm's
				Law
		 .Mini project – 		Mini projects may be
		any one of the		given to group of
		application.		students to create
				scientific temper and
				for hands _on
				experience
			1.Comparison	Shifted to I sem from
			of viscosities	II sem
			2. Stoke's	
			method	
			1.Young's	
			modulus	
			2.Spectrometer-	Removed in DOTE
			Angle of	N scheme syllabus.
			minimum	
			Deviation	
			3.Surface	
			tension	

PERIYAR CENTENARY POLYTECHNIC COLLEGE VALLAM – THANJAVUR- 613 403 FIRST YEAR GENERAL ENGINEERING

ENGINEERING CHEMISTRY-I

Changes incorporated to N scheme of DOTE to D scheme

S.NO	SUBJECT	ADDITION	DELETION	REMARKS
1.	ENGINEERING CHEMISTRY –I & D104	UNIT –I Bohr's Atomic Model	-	To Acquire Knowledge and understanding of Basic Atomic Theory
		UNIT-II Emulsion definition, types and properties	-	To get knowledge about types of Emulsions and its properties.
		UNIT-III Extraction of Aluminium	-	To gain knowledge about Extraction of Aluminium from its ores.
		UNIT-IV	-	No Change. Followed same as DOTE N Scheme
		UNIT-V	-	No Change. Followed same as DOTE N Scheme

ENGINEERING CHEMISTRY-I

S.	SUBJECT	ADDITION ADDITION	DELETION	REMARKS
NO				
1.	ENGINEERING CHEMISTRY –I & D104	UNIT –I 1.1 Atomic Structure Extra nuclear part-filling up of electrons - aufbau principle – s-p-d-f orbitals- electronic configuration –definition of atomic mass, equivalent mass, valency (Definition only)		As per the DOTE N Scheme syllabus.
		Bohr's Atomic Model		To understand the Basic atomic theory.
		1.2 Periodic Table Modern Periodic law-periodic classification of elements — features of modern periodic table - properties of s-p-d-f block elements. 1.3 Acids and Bases Properties of acids and bases		As per the DOTE N Scheme syllabus. As per the DOTE N Scheme syllabus.
		Troperties of acids and ouses	Avogadro's Hypothesis and Avogadro's number	Removed in DOTE N Scheme Syllabus
		UNIT-II Surface Chemistry 2.1.Colloids Application — Artificial rain Emulsion — definition — Types and properties.		As per the DOTE N Scheme syllabus. To gain knowledge about types of Emulsion and its properties.
		2.2.Nanotechnology properties-Application of nanotechnology-Engineering		As per the DOTE N Scheme syllabus.
		2.3 Catalysis		Shifted from III unit to II unit
		Active centre		As per the DOTE N Scheme syllabus.

	2.1.Solution	Removed in DOTE N Scheme Syllabus
UNIT –III Minerals and metallurgy 3.1. Mineral -Minerals of Tamilnadu -sources and uses (Basics concepts only) - Extraction of Iron- Blast furnace, cast iron- steel manufacture-Bessemer converter- heat treatment of steel - hardening-annealing-tempering		As per the DOTE N Scheme syllabus.
3.2Extraction of Tungsten and Titanium		Shifted from II Semester to I Semester
Extraction and uses of Aluminium.		To understand the Extraction of Aluminium from its ore.
3.3 Powder metallurgy		Shifted from II Semester to I Semester
powder metallurgical process - Blending, Compacting, Sintering-Finishing		As per the DOTE N Scheme syllabus.
	3.1.Technology of water	Removed in DOTE N Scheme Syllabus
UNIT-IV Industrial Chemistry Nuclear Chemistry 4.1. Nuclear reaction-differences between nuclear reaction and ordinary chemical reaction Radioactive decay-alpha emission-beta emission-gamma emission-half-life period-simple problems Nuclear fission —nuclear fusion-chain reaction Components nuclear reactor, reactor core, nuclear reactor coolant, control rods, neutron moderator steam turbine Application of radioactive isotopes.		As per the DOTE N Scheme syllabus.

		_
4.2 Cement and Ceramics, 4.3.Refractories,		Shifted from II semester to I semester
Glass		Shifted from III Unit to IV Unit
Composition glass.		As per the DOTE N Scheme syllabus
	4.1 Electrochemistry,	Removed in DOTE
	4.2 Electrochemical cell,	N Scheme Syllabus
	4.3Energy Sources	·
UNIT-V		
Engineering Materials		Shifted from II
5.1. polymers		Semester to I Semester
5.2. Abrasives		
5.3. composite materials:		
Classification of composites		As per the DOTE N Scheme Syllabus

ENGINEERING CHEMISTRY PRACTICAL-I

changes incorporated from N scheme of DOTE to D scheme

S.NO	SUBJECT	ADDITION	DELETION	REMARKS
1.	ENGINEERING CHEMISTRY PRACTICAL-I D108			• In DOTE chemistry practical semester exam conducted in II semester only.
				Instead of this it is proposed to conduct Chemistry practical exam in both I sem and II sem.
				All the First 10 experiments of N scheme are to conducted in I semester.
		Mini project –		Mini projects may be given
		any one of the		to group of students to
		Application.		create a scientific temper
				and for hands –on
				experience.

ENGINEERING CHEMISTRY PRACTICAL-I

S.NO	SUBJECT	ADDITION	DELETION	REMARKS
1.	ENGINEERING CHEMISTRY PRACTICAL-I & D107	ADDITION	DELETION	 In DOTE chemistry practical semester exam conducted in II semester only. Instead of this it is proposed to conduct Chemistry practical exam in both I sem and II sem. ❖ All the First 10 experiments of N scheme are to conducted in I semester.
		i)Estimation of strong Acid ii)Estimation of sodium hydroxide-standard solution- KOH iii)Comparison of strengths of two potassium permanganate standard solution-FAS		As per the DOTE N Scheme syllabus.
			Estimation of sodium carbonate	Removed in N scheme syllabus
		 Water Analysis for residual chlorine Water quality testing pH Water quality testing TDS 		As per the DOTE N Scheme syllabus.

	comparison of strength of two Alkaline	Removed in N scheme syllabus
Mini project – any one of the Application.		Mini projects may be given to group of students to create a scientific temper and for hands—on experience

ENGINEERING CHEMISTRY PRACTICAL-II

changes incorporated from N scheme of DOTE to D scheme

S.NO	SUBJECT	ADDITION	DELETION	REMARKS
1.	ENGINEERING CHEMISTRY PRACTICAL-II D 208			In DOTE chemistry practical semester exam conducted in II semester only.
				Instead of this it is proposed to conduct chemistry practical exam in both I sem and II sem.
				 All the remaining 10 experiments of N scheme are to be conducted in II semester.
		Mini project – any one of the application.		Mini projects may be given to group of students to create a scientific temper and for hands –on experience

ENGINEERING CHEMISTRY PRACTICAL-II

S.NO	SUBJECT	ADDITION	DELETION	REMARKS
1.	ENGINEERING CHEMISTRY PRACTICAL-II & D207	• Salt analysis- Basics radicals- ferrous iron		All the remaining 10 experiments of N scheme are conducted in II semester. To understand the characteristics of substances.
			Effluent Analysis - cadmium	Removed in DOTE N Scheme Syllabus
		Mini project – Any one of the Application.		Mini projects may be given to group of students to create a scientific temper and for hands—on experience

PERIYAR CENTENARY POLYTECHNIC COLLEGE

PERIYAR NAGAR –VALLAM –613 403 –THANJAVUR

First Year General Engineering

Engineering graphics-I

Changes incorporated from DOTE N scheme to D scheme

Course and	Unit	Addition	Deletion	Remarks
course code				
	UNIT-I	Special		To familiar with
	DRAWING OFFICE	Instrument		multipurpose
	PRACTICE AND	and	-	instrument
	DIMENSIONING	Templates		
	UNIT-II	Application		To enhance the
	GEOMETRIC	of		skill in using and
	CONSTRUCTIONS	Geometric	-	applying
Engineering	AND CONSTRUCTION	construction		geometric
graphics-I	OF CONICS			construction
and	UNIT-III	Three View		To understand
D 105	PROJECTION OF	Projection		and develop
	POINTS & STRAIGHT	of Point,line		three view
	LINES AND		_	projection of an
	CONSTRUCTION OF			object
	SPECIAL CURVES			
	UNIT-IV	Relative		To understand
	ORTHOGRAPHIC	Position Of		the advanced
	PROJECTIONS	all six	-	method of
		Views		viewing all six
				relative positions

ENGINEERING GRAPHICS-I

Course and	Unit	Addition	Deletion	Remarks
course code				
	UNIT-I	Special		To familiar with
	Drawing office practice and	Instrument and	-	multipurpose
	dimensioning	Templates		instrument
	UNIT-II	Application of		To enhance the skill
	Geometric Constructions and	Geometric		in using and
	construction	construction	_	applying geometric
	of conics			construction
Engineering	UNIT-III	Three View		To understand and
graphics-I	Projection of points & straight	Projection of	_	develop three view

and	lines and construction of special	Point		projection of an
D105	curves			object
	UNIT-IV	Relative		To understand the
	Orthographic Projections	Position Of all		advanced method
		six Views	_	of viewing all six
				relative positions
	UNIT-V	-		Difficult to learn in
	Autocad		Autocad	first sem