Internal Academic Audit



P.S.R. ENGINEERING COLLEGE SIVAKASI-626 140 (An Autonomous Institution, Affiliated to Anna University, Chennai) Sevalpatti (P.O), Sivakasi - 626140 Tamilnadu State



Name of the Department Audited

: MECHANICAL ENGINEERING DEPARTMENT

Name of the Auditor(s) & Designation: 1. Dr.S.Ramesh, Prof & Head / EEE.

2. Mr,S.Dharmar, AP/ Civil.

Date(s) of Auditing: 28.11.2014 (Friday)

Report of Internal Academic Auditing

Files Documents	Name of the Staff / In charge	Auditi ng Done [Yes or No]	Comments / Suggestion of the Auditors [attach separate sheets if necessary	Remarks
Staff Log- Books	All Faculty Members	Yes	In few log books record of class work is not filled properly. In some log books are Students attendance is not Entry.	Complete and Get verification from HOD
Course Files	All Faculty Members	Yes	Some faculty is not updated Question Moderation and Mapping	Complete and Get verification from HOD
Course Materials & Lab Manuals	All Faculty Members	Yes	Improve Course materials to Delivered Applications oriented	-
Slow Learners and Remedial Measures	All Faculty Members	Yes	proof for the remedial measures was witnessed in some courses for assignment given	(%)
Tutorial Conduction	Faculty Members handling four credit courses	Yes		Available & updated
CO-PO Mapping and Evaluation	All Faculty Members	Yes	Improvements have to be done in CO-PO mapping.	Updated
Course End Survey	All Faculty Members	Yes		Available & updated
Result Analysis	Mr. K. Ganesan	Yes	Verified	-
Student Records	Departments Advisors	Yes	Update End Semester Marks	

Student	Mr.P.Raja	Yes	Verified	
Participation – Inter / Intra Events	Inter events: 0 Intra events: 0			
workshops, Paper presentation	Mr.P.Ebenezer Sathish Paul	Yes		Available & updated
Sports, and Games, YRC, RRC & NSS, etc.		Yes	Encourage the students to participate in all Extra -curricular Activities	ev. Samuel
Dept Association	Mr.P.Ebenezer Sathish Paul	Yes		Available & updated
Professional / Chapters / Forums	Dr. P. Pitchipoo			Available & updated
Staff Personal Files	All Faculty Members	Yes	All personal files need to be updated	Updated
Dept Budjet Files	Mr. K. Rajkumar	Yes		Available and Updated
Dept Purchasing Files	Mr.S.Veera Saravanakumar	Yes		Available and Updated
Student Feedback & Analysis	Mr. M. Ramesh	Yes	II Year student feedback form is not collected	Updated
Dept Training and Placement Files	Mr. D. Sudarsan	Yes		Available and Updated
Value Added Courses, Guest Lectures, Seminars	Mr. P. Ebenezer Sathish Paul	Yes		Available and Updated
Dept Annual Report	Dr. P. Pitchipoo	Yes		Available and Updated
Dept AQAR Report	Mr. V.M. Saravanan	Yes		Available and Updated
Research and Development – Funded Projects, Public ations, MOUs, etc.	Mr. K. Ganesan	Yes		Available and Updated
Students Projects-UG & PG	Mr.K.Ganesan Mr. M. Suresh	Yes		Available and Updated

Subject		Yes		Available and
Allocation and Time Table	Mr. V.Ayyar			Updated
Internal Exam & Class Test Conduction	Mr. K. Ganesan	Yes		Available and Updated
Minutes of Dept Meeting	Dr. P. Pitchipoo	Yes		Available and Updated
Dept Recruitment	A.Muthiah	Yes		Available and Updated
Board of Studies file- curriculum syllabus, Minutes, etc.	Dr.P.Pitchipoo	Yes		Available and Updated
Feedbacks from Stakeholders- Alumni, Employer, Parents etc.	Mr.M.Ramar	Yes		Available and Updated
Lab Maintanance / Service Log- book	Mr. J. Jerold John Britto	Yes		Available and Updated
No.of programme organized	Mr. P. Ebenezer Sathish Paul	Yes	No:04	
Department Achievements	Faculty participate	ed FDP in Var		
Any other Remarks by Auditors	Can perceive and students	continuous i	mprovement in academic	performance of faculties

Head of the Department

Verified by







Name of the Department Audited

: MECHANICAL ENGINEERING DEPARTMENT

Name of the Auditor(s) & Designation: 1.Mr.M.Ramar, Asso.prof & Head/ ECE.

2. Mrs.R.Meenaprakash, AP/ECE.

Date(s) of Auditing: 08.05.2015 (Friday)

Report of Internal Academic Auditing

Files / Documents	Name of the Staff / Incharge	Auditi ng Done [Yes or No]	Comments / Suggestion of the Auditors [attach separate sheets if necessary	Remarks
Staff Log- Books	All Faculty Members	Yes	 In few log books record of class work is not filled properly. 	Complete and Get verification from HOD
Course Files	All Faculty Members	Yes	Some faculty is not updated Summary attainment of CO, PO, PSO	Complete and Get verification from HOD
Course Materials & Lab Manuals	All Faculty Members	Yes	Some faculty is not updated from Update syllabus	
Slow Learners and Remedial Measures	All Faculty Members	Yes	proof for the remedial measures was witnessed in some courses Assignment given	
Tutorial Conduction	Faculty Members handling four credit courses	Yes	No key was prepared for tutorial questions in some courses	
CO-PO Mapping and Evaluation	All Faculty Members	Yes	Improvements have to be done in CO-PO mapping.	updated
Course End Survey	All Faculty Members	Yes	Most of the course files not having course end survey	
Result Analysis	Mr. K. Ganesan	Yes	Verified	-
Student Records	Department Advisors	Yes		Available & updated
Student Participation - Inter / Intra Events	Mr.P.Raja Inter events: 11 Intra events: 2	Yes	Verified	

workshops, Paper presentation	Mr.K.Rajkumar	Yes		Available & updated
Sports, and Games, YRC, RRC & NSS, etc.		Yes		Available & updated
Dept Association	Mr.P.Ebenezer Sathish Paul	Yes	Verified	NO SECTION AND PROPERTY.
Professional / Chapters / Forums	Dr. P. Pitchipoo	Yes	, consumption of the	Available & updated
Staff Personal Files	All Faculty Members	Yes	All personal files need to be updated	Updated
Dept Budjet Files	Mr. K. Rajkumar	Yes		Available & updated
Dept Purchasing Files	Mr.S.Veera Saravanakumar	Yes		¥
Student Feedback & Analysis	Mr. M. Ramesh	Yes	Verified	Available & updated
Dept Training and Placement Files	Mr. D. Sudarsan	Yes		Available & updated
Value Added Courses, Guest Lectures, Seminars	Mr. P. Ebenezer Sathish Paul	Yes		Available & updated
Dept Annual Report	Dr. P. Pitchipoo	Yes		Available & updated
Dept AQAR Report	Mr. V.M. Saravanan	Yes		Available & updated
Research and Development – Funded Projects, Public ations, MOUs, etc.	Mr. K. Ganesan	Yes		Available & updated
Students Projects-UG & PG	Mr.R.Ramaganesan Mr.R.Ramkumar	Yes		Available & updated
Subject Allocation and Time Table	Mr. V.M. Saravanan	Yes	Verified	Available & updated
Internal Exam & Class Test Conduction	Mr. K. Ganesan	Yes		Available & updated

Minutes of Dept Meeting	Dr. P. Pitchipoo	Yes	Verified	
Dept Recruitment	Mr. P. Ebenezer Sathish Paul	Yes	Verified	
Board of Studies file- curriculum syllabus, Minutes, etc.	Dr. P. Pitchipoo	Yes	Verified	-
Feedbacks from Stakeholders- Alumni, Employer, Parents etc.	Mr.M.Ramar	Yes		Available & updated
Lab Maintanance / Service Log- book	Mr.V.Pandiyaraj	Yes		Available & updated
No.of programme organized	Mr. P. Ebenezer Sathish Paul	Yes	No:03	-
Department Achievements	Faculties secure 1	00% Resu	n Symposium, presentation conte lts in University Examination	est at various colleges
Any other Remarks by Auditors	Faculty's files	update re	gularly.	

Signature(s) of the Auditors and Name

1. Emy (M. Ranor)

2. R. Meuna Brakush

R. Lyst Head of the Department

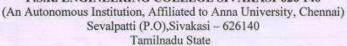
Verified by

IQAC Co-ordinator

Dean

Principal







Name of the Department Audited : MECHANICAL ENGINEERING DEPARTMENT

Name of the Auditor(s) & Designation: 1. Dr.S.Ramesh, Prof & Head /EEE.

2. Dr.K.Rubasoundar, Prof & Head /CSE.

Date(s) of Auditing: 30.11.2015 (Monday)

Report of Internal Academic Auditing

Files / Documents	Name of the Staff / In- charge	Auditi ng Done [Yes or No]	Comments / Suggestion of the Auditors [attach separate sheets if necessary	Remarks
Staff Log- Books	All Faculty Members	Yes	 In few log books record of class work is not filled properly. 	Complete and Get verification from HOD
Course Files	All Faculty Members	Yes	No separate file for course file / material for each course.	Updation were made
Course Materials & Lab Manuals	All Faculty Members	Yes	Some Faculty is not updated 2 mark questions	- 100 E
Slow Learners and Remedial Measures	All Faculty Members	Yes		Available & updated
Tutorial Conduction	Faculty Members handling four credit courses	Yes		Available & updated
CO-PO Mapping and Evaluation	All Faculty Members	Yes	Improvements have to be done in CO-PO mapping.	updated
Course End Survey	All Faculty Members	Yes	Most of the course files not having course end survey	
Result Analysis	Mr. C. Gururaj	Yes	Verified	
Student Records	Department Faculty Members	Yes	Verified	-
Student Participation - Inter / Intra Events	Mr.P.Raja Inter events: 15 Intra events: 01	Yes	Verified	

workshops, Paper presentation	Mr.M.Ramesh	Yes		Available & updated
Sports, and Games, YRC, RRC & NSS, etc.		Yes		Available & updated
Dept Association	Mr.P.Ebenezer Sathish Paul	Yes	Gerial III September 1981 - Berlin III III	Available & updated
Professional / Chapters / Forums	Dr. P. Pitchipoo			
Staff Personal Files	All Faculty Members	Yes	All personal files need to be updated	Updated
Dept Budjet Files	Mr. K. Ganesan	Yes	Verified	dinate:
Dept Purchasing Files	Mr.S.Veera saravanakumar	Yes	Verified	
Student Feedback & Analysis	Mr. M. Suresh	Yes		Available & updated
Dept Training and Placement Files	Mr. R. Ramkumar	Yes	Verified	military.
Value Added Courses, Guest Lectures, Seminars	Mr. P. Ebenezer Sathish Paul	Yes		Available & updated
Dept Annual Report	Dr. P. Pitchipoo	Yes		Available & updated
Dept AQAR Report	Mr. V.M. Saravanan	Yes		Available & updated
Research and Development – Funded Projects,Public ations,MOUs, etc.	Mr. K. Ganesan	Yes	Verified	
Students Projects-UG & PG	Mr.V.Ayyar Mr.P.Raja	Yes		Available & updated
Subject Allocation and Time Table	Mr. V.M. Saravanan	Yes		Available & updated
Internal Exam & Class Test Conduction	Mr. V.Ayyar	Yes		Available & updated

Minutes of Dept Meeting	Dr. P. Pitchipoo	Yes	Verified	
Dept Recruitment	Mr.A.Muthiah	Yes		Available & updated
Board of Studies file- curriculum syllabus, Minutes, etc.	Dr. P. Pitchipoo	Yes		Available & updated
Feedbacks from Stakeholders- Alumni, Employer, Parents etc.	Mr.M.Ramar	Yes		Available & updated
Lab Maintanance / Service Log- book	Mr.R.Ramaganesan	Yes		Available & updated
No.of programme organized	Mr. P. Ebenezer Sathish Paul	Yes	No:04	
Department Achievements	Faculty participate	ed FDP in Va	ational Journal of Fuzzy Syst rious college. In University Examination.	tems
Any other Remarks by Auditors				

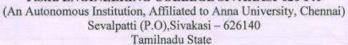
Verified by

IQAC Co-ordinator

Principal

Head of the Department







Page 1

Name of the Department Audited

: MECHANICAL ENGINEERING DEPARTMENT

Name of the Auditor(s) & Designation:1. Dr.K.Rubasoundar, Prof & Head / CSE.

2. Mr.R.Thirumalai Kumar, AP/MBA.

Date(s) of Auditing: 06.05.2016 (Friday)

Report of Internal Academic Auditing

Files / Documents	Name of the Staff / In- charge	Auditi ng Done [Yes or No]	Comments / Suggestion of the Auditors [attach separate sheets if necessary	Remarks
Staff Log- Books	All Faculty Members	Yes	In some log books course plan is missing.	Complete and Get verification from HOD
Course Files	All Faculty Members	Yes	Some faculty is not updated IAT 2 Mark details and Mapping	Complete and Get verification from HOD
Course Materials & Lab Manuals	All Faculty Members	Yes	Improve Course materials to include PPT, NPTEL and Animation Videos	-
Slow Learners and Remedial Measures	All Faculty Members	Yes	proof for the remedial measures was witnessed in some courses for assignment given	
Tutorial Conduction	Faculty Members handling four credit courses	Yes	No key was prepared for tutorial questions in some courses	*
CO-PO Mapping and Evaluation	All Faculty Members	Yes	Improvements have to be done in CO-PO-PSO mapping.	Updated
Course End Survey	All Faculty Members	Yes	Most of the course files not having course end survey	
Result Analysis	Mr. C. Gururaj	Yes	Verified	
Student Records	Department faculty Advisors	Yes		Available and Updated
Student Participation – Inter / Intra Events	Mr.P.Raja Inter events:03 Intra events:Nil	Yes	Verified	

workshops, Paper presentation	Mr.R.Ragavan	Yes		Available and Updated
Sports, and Games, YRC, RRC & NSS, etc.		Yes		Available and Updated
Dept Association	Mr.P.Ebenezer Sathish Paul	Yes	Laborate State of the	Available and Updated
Professional / Chapters / Forums	Dr. P. Pitchipoo	Yes	The Research Control of the Control	Available and Updated
Staff Personal Files	All Faculty Members	Yes	All personal files need to be updated	Updated
Dept Budjet Files	Mr. K. Ganesan	Yes		Available and Updated
Dept Purchasing Files	Mr.S.Veera saravanakumar	Yes		Available and Updated
Student Feedback & Analysis	Mr. M. Suresh	Yes		Available and Updated
Dept Training and Placement Files	Mr. R. Ramkumar	Yes	Verified	
Value Added Courses, Guest Lectures, Seminars	Mr. P. Ebenezer Sathish Paul	Yes	Verified	Company Compan
Dept Annual Report	Dr. P. Pitchipoo	Yes	Verified	
Dept AQAR Report	Mr. V.M. Saravanan	Yes		Available and Updated
Research and Development – Funded Projects, Public ations, MOUs, etc.	Mr. K. Ganesan	Yes		Available and Updated
Students Projects-UG & PG	Mr.V.Manojkumar	Yes	Verified	
Subject Allocation and Time Table	Mr. V.M. Saravanan	Yes	Verified	dent i section
Internal Exam & Class Test Conduction	Mr. K. Ganesan	Yes		Available and Updated

Minutes of Dept Meeting	Dr. P. Pitchipoo	Yes	Verified	
Dept Recruitment	Dr.K.R.Viswanathan	Yes	Verified	
Board of Studies file- curriculum syllabus, Minutes, etc.	Dr. P. Pitchipoo	Yes		Available and Updated
Feedbacks from Stakeholders- Alumni, Employer, Parents etc.	Mr.M.Ramar	Yes	Verified	
Lab Maintanance / Service Log- book	Mr.K.Rajkumar	Yes		Available and Updated
No.ofprogram me organized	Mr. P. Ebenezer Sathish Paul	Yes	No:02	
Department Achievements	• S	tudents won arious college		s, presentation contest at
Any other Remarks by Auditors	•	More assign Seminar ma	ments can be given to sturks should be regularly upda	dents and assignment & ted in staff log books.

Signature(s) of the Auditors and Name

1. Dest

2. R. tocamo

Verified by

IQAC Co-ordinator

Dean

Principal

Head of the Department



(An Autonomous Institution, Affiliated to Anna University, Chennai) Sevalpatti (P.O),Sivakasi – 626140 Tamilnadu State



Page 1

Name of the Department Audited

: MECHANICALENGINEERING DEPARTMENT

Name of the Auditor(s) & Designation: 1. Dr.P.Johnson Raja, Asso.Prof/CHEMISTRY

2. Mr.R.Palanikumar, AP/ CSE.

Date(s) of Auditing: 25.11.2016(Friday)

Report of Internal Academic Auditing

Files / Documents	Name of the Staff / In- charge	Auditi ng Done [Yes or No]	Comments / Suggestion of the Auditors [attach separate sheets if necessary	Remarks
Staff Log- Books	All Faculty Members	Yes	In few log books record of class work is not filled properly. In some log books are Students attendance is not Entry.	Complete and Get verification from HOD
Course Files	All Faculty Members	Yes	Some faculty is not updated Question Moderation and Mapping	Complete and Get verification from HOD
Course Materials & Lab Manuals	All Faculty Members	Yes	Improve Course materials to Delivered Applications oriented	
Slow Learners and Remedial Measures	All Faculty Members	Yes	proof for the remedial measures was witnessed in some courses for Assignment given	
Tutorial Conduction	Faculty Members handling four credit courses	Yes		Available & updated
CO-PO Mapping and Evaluation	All Faculty Members	Yes	 Improvements have to be done in CO-PO mapping. 	Updated
Course End Survey	All Faculty Members	Yes	Some few menbers of the course files not having course end survey	
Result Analysis	Mr.R.Ragavan	Yes	Verified	
Student Records	All Faculty Members	Yes	Update End Semester Marks -	

Student	Mr.P.Raja	Yes	Verified	
Participation — Inter / Intra Events	Inter events: 15 Intra events: 03			
workshops, Paper presentation	Mr.M.Ayyappan	Yes		Available & updated
Sports, and Games, YRC, RRC & NSS, etc.		Yes	Encourage the students to participate in all Extra -curricular Activities	•
Dept Association	Mr.K.Ganesan	Yes		Available & updated
Professional / Chapters / Forums	Dr. P. Pitchipoo			Available & updated
Staff Personal Files	All Faculty Members	Yes	All personal files need to be updated	Updated
DeptBudjet Files	Mr.V. Pandiyaraj	Yes	Verified	
Dept Purchasing Files	Mr.S.Veerasaravanakuma r	Yes	Verified	
Student Feedback & Analysis	Mr.M.Ramar	Yes		Available & updated
Dept Training and Placement Files	Mr. M. Ayyappan	Yes		Available & updated
Value Added Courses, Guest Lectures, Seminars	Mr. P. Ebenezer Sathish Paul	Yes		Available & updated
Dept Annual Report	Dr. P. Pitchipoo	Yes	Verified	
Dept AQAR Report	Mr. V.M. Saravanan	Yes	Verified	
Research and Development – Funded Projects, Public tions, MOUs,	Mr. K. Ganesan	Yes		Available and Updated
Students Projects-UG	Mr.P.EbenezerSathish Paul	Yes		Available and Updated

Page 2

PG	Mr.K.Ganesan			
Subject Allocation and Time Table	Mr. V.M. Saravanan	Yes	Verified	
Internal Exam & Class Test Conduction	Mr. K. Ganesan	Yes	Verified	
Minutes of Dept Meeting	Dr. P. Pitchipoo	Yes	Verified	
Dept Recruitment	Mr.D.Sudharsan	Yes		Available and Updated
Board of Studies file- curriculum syllabus, Minutes, etc.	Dr. P. Pitchipoo	Yes	Verified	
Feedbacks from Stakeholders- Alumni, Employer, Parents etc.	Mr.M.Ramar	Yes		Available and Updated
Lab Maintanance / Service Log- book	Mr. G. Uthayakumar	Yes		Available and Updated
No.of programme organized	Mr. K. Ganesan	Yes	No:04	
Department Achievements			ed for TNSCST projects tudents got NPTEL Certific	ate
Any other Remarks by Auditors	 More assig 		given to students and assig d in staff log books.	nment & Seminar marks

Signature(s) of the Auditors and Name 1. 28 Johnson R. [S. Johnson	Raja]	Head of the Department
2. Ventimas [R PALANSKUMAR]		

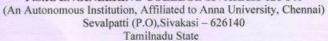
Verified by

IQAC Co-ordinator

Dean

Principal







Name of the Department Audited : MECHANICALENGINEERING DEPARTMENT

Name of the Auditor(s) & Designation:1. Dr.K.Subramanian, Prof& Head /Bio Tech.

2. Dr.R.Srinivasan, Asso.Prof./PHYSICS

Date(s) of Auditing: 28.04.2017 (Friday)

Report of Internal Academic Auditing

Files / Documents	Name of the Staff / In- charge	Auditi ng Done [Yes or No]	Comments / Suggestion of the Auditors [attach separate sheets if necessary	Remarks
Staff Log- Books	All Faculty Members	Yes	In some log books course plan is missing.	Complete and Get verification from HOD
Course Files	All Faculty Members	Yes	Some faculty is not updated Pre Semester Examination Mark details and Mapping	Complete and Get verification from HOD
Course Materials & Lab Manuals	All Faculty Members	Yes	Improve Course materials to include PPT, NPTEL and Animation Videos	
Slow Learners and Remedial Measures	All Faculty Members	Yes	proof for the remedial measures was witnessed in some courses for Assignment given	
Tutorial Conduction	Faculty Members handling four credit courses	Yes	No key was prepared for tutorial questions in some courses	*
CO-PO Mapping and Evaluation	All Faculty Members	Yes	Improvements have to be done in CO-PO mapping.	updated
Course End Survey	All Faculty Members	Yes	Some few of the course files not having course end survey	
Result Analysis	Mr.R.Ragavan	Yes	Verified	
Student Records	All Faculty Members	Yes	Verified	
Student Participation - Inter / Intra Events	Mr.P.Raja Inter events:16 Intra events:02	Yes		

workshops, Paper presentation	Mr. R. Siddarth	Yes	Complete and process of the control	Available and Updated
Sports, and Games, YRC, RRC & NSS, etc.		Yes		Available and Updated
Dept Association	Mr. K. Ganesan	Yes	Verified	
Professional / Chapters / Forums	Dr. P. Pitchipoo	Yes	Verified	
Staff Personal Files	All Faculty Members	Yes	All personal files need to be updated	Updated
Dept Budjet Files	Mr.V. Pandiyaraj	Yes		Available and Updated
Dept Purchasing Files	Mr.S.Veera saravanakumar	Yes		Available and Updated
Student Feedback & Analysis	Mr.M.Ramar	Yes	Verified	
Dept Training and Placement Files	Mr. M. Ayyappan	Yes		Available and Updated
Value Added Courses, Guest Lectures, Seminars	Mr. P. Ebenezer Sathish Paul	Yes	Verified	
Dept Annual Report	Dr. P. Pitchipoo	Yes		Available and Updated
Dept AQAR Report	Mr. V.M. Saravanan	Yes	Verified	
Research and Development – Funded Projects, Public ations, MOUs, etc.	Mr. K. Ganesan	Yes	TNSCST Project Sanctioned with Rs 10000/- (Dr. P, Pitchipoo)	
Students Projects-UG & PG	Mr. V. Manoj Kumar Mr. R. Siddarth	Yes		Available and Updated
Subject Allocation and Time Table	Mr. V.M. Saravanan	Yes	Verified	
Internal Exam & Class Test Conduction	A STATE OF THE STA	Yes	Verified	

Page 2

Minutes of Dept Meeting	Dr. P. Pitchipoo	Yes	Verified	-
Dept Recruitment	Mr. G. Uthayakumar	Yes		Available and
Board of Studies file- curriculum syllabus, Minutes, etc.	Dr. P. Pitchipoo	Yes	Verified	Updated -
Feedbacks from Stakeholders- Alumni, Employer, Parents etc.	Mr.M.Ramar	Yes	Verified	
Lab Maintanance / Service Log- book	Mr.K.Muthusamy	Yes		Available and Updated
No.of programme organized	Mr. K. Ganesan	Yes	No:01	
Department Achievements	• I	aculties and Stu aculty got TNS	dents got NPTEL Certifica CST Project	te.
Any other Remarks by Auditors		Faculty's files u	pdate regularly.	

Signature	(8)	of	the	Auditors	and	Name
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Head of the Department

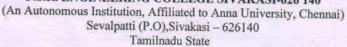
Verified by

IQAC Co-ordinator

Dean

Principal







Name of the Department Audited : MECHANICAL ENGINEERING DEPARTMENT Name of the Auditor(s) & Designation: 1. Dr.M.Shahul Hameed, Prof. & Head / Civil.

2. Mr.S.Dharmar, Asso.Prof./ Civil.

Date(s) of Auditing: 25.11.2017 (Saturday)

Report of Internal Academic Auditing

Files / Documents	Name of the Staff / In- charge	Auditi ng Done [Yes or No]	Comments / Suggestion of the Auditors [attach separate sheets if necessary	Remarks
Staff Log- Books	All Faculty Members	Yes	In few log books record of class work is not filled properly. In some log books are Students attendance is not Entry.	Complete and Get verification from HOD
Course Files	All Faculty Members	Yes	Some faculty is not updated Question Moderation and Mapping	Complete and Get verification from HOD
Course Materials & Lab Manuals	All Faculty Members	Yes	Improve Course materials to include PPT, NPTEL and Animation Videos	
Slow Learners and Remedial Measures	All Faculty Members	Yes	proof for the remedial measures was witnessed in some courses for assignment given	listed April
Tutorial Conduction	Faculty Members handling four credit courses	Yes	No key was prepared for tutorial questions in some courses	
CO-PO Mapping and Evaluation	All Faculty Members	Yes	Improvements have to be done in CO-PO mapping.	updated
Course End Survey	All Faculty Members	Yes	Few of the course files not having course end survey	
Result Analysis	Mr. M. V. Maheswaran	Yes	Verified Verified	
Student Records	Department Advisors	Yes	TAILING	Available & updated
Student Participation – Inter / Intra	Mr.P.Raja Inter events:17 Intra events: 02	Yes	Verified	ec upuated

Events	THE RESERVE AND THE		DESCRIPTION OF THE PARTY OF THE	
workshops, Paper presentation	Mr.K.Ganesan	Yes		Available & updated
Sports, and Games, YRC, RRC & NSS, etc.		Yes		Available & updated
Dept Association	Mr. K.Ganesan	Yes	Verified	
Professional / Chapters / Forums	Dr. P. Pitchipoo		Verified	
Staff Personal Files	All Faculty Members	Yes	All personal files need to be updated	Updated
Dept Budjet Files	Mr.K.Muthusamy	Yes		Available & updated
Dept Purchasing Files	Mr.S.Veera saravanakumar	Yes	Verified	Available & updated
Student Feedback & Analysis	Mr.P.Raja	Yes		Available & updated
Dept Training and Placement Files	Mr.R.Ragavan	Yes		Available & updated
Value Added Courses, Guest Lectures, Seminars	Mr. P. Ebenezer Sathish Paul	Yes		Available & updated
Dept Annual Report	Dr. P. Pitchipoo	Yes	Verified	25
Dept AQAR Report	Mr. V.M. Saravanan	Yes	Verified	1
Research and Development – Funded Projects, Public tions, MOUs,	Mr. K. Ganesan	Yes		Available & updated
Students Projects-UG & PG	Mr.P.EbenezerSathish Paul Mr.K.Karthik	Yes	Verified	

Subject Allocation and Time Table	Mr. V.M. Saravanan	Yes	Verified	
Internal Exam & Class Test Conduction	Mr.T.Suresh	Yes		Available & updated
Minutes of Dept Meeting	Dr. P. Pitchipoo	Yes		Available & updated
Dept Recruitment	Dr.A.Muthiah	Yes		Available & updated
Board of Studies file- curriculum syllabus, Minutes, etc.	Dr. P. Pitchipoo	Yes	Verified	*
Feedbacks from Stakeholders- Alumni, Employer, Parents etc.	Mr.M.Ramar	Yes		Available & updated
Lab Maintanance / Service Log- book	Mr.D.Sundarrajan	Yes		Available & updated
No.of programme organized	Mr. K. Ganesan	Yes	No:04	
Department Achievements	 Faculty got Best Faculty achieved 	Paper Award- N I Anna Universit	ITTTR, Chennai y Supervisor Recognition.	and the state of
Any other Remarks by Auditors			THE VI	

Signature(s) of the	Auditors and	Name
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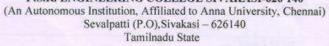
Head of the Department

Verified by

IQAC Co-ordinator

Principal







Page 1

Name of the Department Audited : MECHANICALENGINEERING DEPARTMENT
Name of the Auditor(s) & Designation: 1. Dr.P.Johnson Raja, Asso.Prof/CHEMISTRY.

2. Dr.R.Srinivasan, Asso.Prof/PHYSICS.

Date(s) of Auditing: 04.05.2018(Friday)

Report of Internal Academic Auditing

Files / Documents	Name of the Staff / In- charge	Auditi ng Done [Yes or No]	Comments / Suggestion of the Auditors [attach separate sheets if necessary	Remarks
Staff Log- Books	All Faculty Members	Yes	Some Faculty Members is not updated in Assignment marks.	Complete and Get verification from HOD
Course Files	All Faculty Members	Yes	Some faculty is not updated pre- semester Examination Mark details and Mapping	Complete and Get verification from HOD
Course Materials & Lab Manuals	All Faculty Members	Yes	Improve Course materials to include PPT, NPTEL and Animation Videos	
Slow Learners and Remedial Measures	All Faculty Members	Yes	proof for the remedial measures was witnessed in some courses for Assignment given	
Tutorial Conduction	Faculty Members handling four credit courses	Yes	 Faculty handled the subject in Tutorial hour to give more problems to solve for Students. 	
CO-PO Mapping and Evaluation	All Faculty Members	Yes	Some Faculty is not update summary attainment of CO,PO,PSO	updated
Course End Survey	All Faculty Members	Yes	Some few t of the course files not having course end survey	
Result Analysis	Mr. M. V. Maheswaran	Yes	Verified	
Student Records	Department advisors	Yes	Verified	
Student Participation — Inter / Intra Events	Mr.P.Raja Inter events:29 Intra events:02	Yes	Verified	

	EN LEUE MISION	A POST		
The state of the s	A TOTAL CONTRACTOR			
workshops, Paper presentation	Mr.M.Ramar	Yes		Available and Updated
Sports, and Games, YRC, RRC & NSS,		Yes	e de la companya de l	Available and Updated
Dept Association	Mr. K.Ganesan	Yes	Verified	
Professional / Chapters /	Dr. P. Pitchipoo		Verified	
Staff Personal Files	All Faculty Members	Yes	All personal files need to be updated	Updated
DeptBudjet Files	Mr.K.Muthusamy	Yes		Available and Updated
Dept Purchasing Files	Mr.S.Veerasaravanakuma r	Yes		Available and Updated
Student Feedback & Analysis	Mr.P.Raja	Yes		Available and Updated
Dept Training and Placement Files	Mr.R.Ragavan	Yes	Verified	
Value Added Courses, Guest Lectures, Seminars	Mr. P. Ebenezer Sathish Paul	Yes	Verified	
Dept Annual Report	Dr. P. Pitchipoo	Yes	Verified	Updated
Dept AQAR Report	Mr. V.M. Saravanan	Yes	Verified	
Research and Development – Funded Projects, Public ations, MOUs,	Mr. K. Ganesan	Yes	TNSCST Project Sanctioned with Rs10000/- Mr.S.Durairaj Mr.Y.Kumarasamy	
Students Projects-UG & PG	Mr.R.Dinagaran Mr.M.Ramar	Yes	Verified	rijeri Hrad
Subject Allocation and Time Table	Mr. V.M. Saravanan	Yes	Verified	reserve per

[Type text]

Page 2

Internal Exam & Class Test Conduction	Mr.T.Suresh	Yes		Available and Updated
Minutes of Dept Meeting	Dr. P. Pitchipoo	Yes	Verified	
Dept Recruitment	Mr.K.Ganesan	Yes	Verified	-
Board of Studies file- curriculum syllabus, Minutes, etc.	Dr. P. Pitchipoo	Yes		Available and Updated
Feedbacks from Stakeholders- Alumni, Employer, Parents etc.	Mr.M.Ramar	Yes		Available and Updated
Lab Maintanance / Service Log- book	Mr.V.M.Saravanan	Yes		Available and Updated
No.ofprogram me organized	Mr.K.Ganesan	Yes	No:04	-
Department Achievements	• 1	aculties and St	for TNSCST projects udents got NPTEL Certifica nany prizes in Symposium,	ite. presentation contest at
Any other Remarks by Auditors	Files are regMore assign	ularly updated ments can be g	iven to students and assign in staff log books.	ment & Seminar marks

Signature(s) of the Auditors and Name

1. S. Johnson Ry [5. Johnson Raja

2. R. Sreenivsten (R. Sreenivonan)

Head of the Department

Verified by

IQAC Co-ordinator

Dean

Principal







Name of the Department Audited : MECHANICAL ENGINEERING DEPARTMENT
Name of the Auditor(s) & Designation: 1. Dr.K.Valarmathi, Prof & Head / ECE.

2. Dr.P.Karuppasamy, Prof./ ECE.

Date(s) of Auditing: 28.11.2018(Wednesday)

Report of Internal Academic Auditing

Files / Documents	Name of the Staff / Incharge	Auditi ng Done [Yes or No]	Comments / Suggestion of the Auditors [attach separate sheets if necessary	Remarks
Staff Log- Books		Yes	Some Faculty Members is not updated in Assignment marks.	Complete and Get verification from HOD
Course Files	All Faculty Members	Yes	Some faculty is not updated pre- semester Examination Mark details and Mapping	Complete and Get verification from HOD
Course Materials & Lab Manuals	All Faculty Members	Yes	Some faculty is not give Lab manual for students	Available & updated
Slow Learners and Remedial Measures	All Faculty Members	Yes	 proof for the remedial measures was witnessed in some courses for Assignment given in failure students 	Available & updated
Tutorial Conduction	Faculty Members handling four credit courses	Yes	•	·
CO-PO Mapping and Evaluation	All Faculty Members	Yes		Available & updated
Course End Survey	All Faculty Members	Yes	In few of the course files not having course end survey	Full long
Result Analysis	Mr. K.Ganesan	Yes		Available & updated
Student Records	All Faculty Advisors	Yes	Update IAT 1 and IAT 2	

Student Participation Inter / Intra Events	MR.P.Raja Numbers: Inter events:16 Intra events:01	Yes		Available & updated
workshops, Paper presentation	Mr. K.Ganesan	Yes		Available & updated
Sports, and Games, YRC, RRC & NSS, etc.		Yes	Encourage the students to participate in all Extra - curricular Activities for Inter college	Number of Participants are very less
Dept Association	Mr. Y.Kumarasamy	Yes	and conego	Available & updated
Professional / Chapters / Forums	Dr.R.Sivasubramanian	Yes		Available & updated
Staff Personal Files	All Faculty Members	Yes	All personal files need to be updated	Updated
Dept Budjet Files	Mr. K.Muthusamy	Yes		Available & updated
Dept Purchasing Files	Mr.S.Veera saravanakumar	Yes	To updated stack file	-
Student Feedback & Analysis	Mr. K.Karthick	Yes		Available & updated
Dept Training and Placement Files	Mr.M.V.Maheshwaran	Yes	Students participate in various company at inter college level	A aleman
Value Added Courses, Guest Lectures, Seminars	Mr.S.Veera saravanakumar	Yes	The second second	Available & updated -
Dept Annual Report	Dr.R.Sivasubramanian	Yes	• 1	Available and Updated
Dept AQAR Report	Mr. V.M. Saravanan	Yes		Available and Updated
Research and Development – Funded Projects, Public ations, MOUs, etc.	Dr.S.M.Rajkumar	Yes		Available and Updated
Students Projects-UG & PG	Mr.M.Ramar MR.R.Dinagran	Yes	UG students doing interne ship projects	*

Subject	Mr. V.M. Saravanan	Yes		
Allocation and Time Table				Available and Updated
Internal Exam & Class Test Conduction		Yes	Verified	
Minutes of Dept Meeting	Dr.R.Sivasubramanian	Yes		Available and Updated
Dept Recruitment	Mr.S.Durairaj	Yes		
Board of Studies file- curriculum syllabus, Minutes, etc.	Mr.D.Sundarrajan	Yes		Available and Updated
Feedbacks from Stakeholders- Alumni, Employer, Parents etc.	Mr.M.Ramar	Yes		Available and Updated
Lab Maintanance / Service Log- book	Mr.S.Veera saravanakumar	Yes		Available and Updated
No.of programme organized	Mr. Y.Kumarasamy	Yes	No:01	• •
Department Achievements	Engineering	rticipated Summ t award "Guest and Technology Lite NPTEL Ex	ner Fellowship- Math Art an Editor- International Journ amination	d Design in Bangalore al of Computer Aided
Any other Remarks by Auditors	Faculty upda	nted personal Fi	le	

Signature(s) of the Auditors and Name 1. (Prote Vacantinal)	Head of the Department
2. Umg (Dr. P. KARUPPOSON)	

Verified by

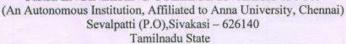
IQAC Co-coordinator

Dean

Principal

2.







Name of the Department Audited

: MECHANICAL ENGINEERING DEPARTMENT

Name of the Auditor(s) & Designation:1. Dr.K.Rubasoundar, Prof & Head / CSE.

2. Dr.S.Singaravelan , Prof. / CSE.

Date(s) of Auditing: 06.05.2019 (Monday)

Report of Internal Academic Auditing

Files / Documents	Name of the Staff / In- charge	Auditi ng Done [Yes or No]	Comments / Suggestion of the Auditors [attach separate sheets if necessary	Remarks
Staff Log- Books	All Faculty Members	Yes	In few log books record of class work is not filled properly. In some log books course plan is missing.	Complete and Get verification from HOD
Course Files	All Faculty Members	Yes	Some faculty is not updated IAT 1 Mark details and Mapping	Complete and Get verification from HOD
Course Materials & Lab Manuals	All Faculty Members	Yes	Improve Course materials to include PPT, NPTEL and Animation Videos	
Slow Learners and Remedial Measures	All Faculty Members	Yes	- SAMARA	Available & updated
Tutorial Conduction	Faculty Members handling four credit courses	Yes	Faculty handled the subject in Tutorial hour to give more problems to solve for Students.	194
CO-PO Mapping and Evaluation	All Faculty Members	Yes	Improvements have to be done in CO-PO mapping.	updated
Course End Survey	All Faculty Members	Yes	Most of the course files not having course end survey.	Updated
Result Analysis	Mr. M. V. Maheswaran	Yes	Verified	
Student Records	Department Advisors	Yes	Update End Semester Marks	

Student Participation – Inter / Intra Events	The state of the s	Yes		Available and Updated
workshops, Paper presentation	Mr.M.Ramar	Yes		Available and Updated
Sports, and Games, YRC, RRC & NSS, etc.		Yes	Encourage the students to participate in all Extra - curricular Activities	Number of Participants are very less
Dept Association	Mr. Y.Kumarasamy	Yes		Available and Updated
Professional / Chapters / Forums	Dr.A.Muthiah	Yes		Available and Updated
Staff Personal Files	All Faculty Members	Yes	Some Faculty personal files is not to be updated	Updated
Dept Budjet Files	Mr. K.Muthusamy	Yes		Available and Updated
Dept Purchasing Files	Mr.S.Veera saravanakumar	Yes		Available and Updated
Student Feedback & Analysis	Mr. K.Karthick	Yes		Available and Updated
Dept Training and Placement Files	Mr.M.V.Maheshwaran	Yes	Some students is not interest attend the Interview due to higher study	·
Value Added Courses, Guest Lectures, Seminars	Mr.S.Veera saravanakumar	Yes		Available and Updated
Dept Annual Report	Dr.A.Muthiah	Yes		Available and Updated
Dept AQAR Report	Mr. V.M. Saravanan	Yes		Available and Updated
Research and Development – Funded Projects, Public ations, MOUs, etc.	Dr.S.M,Rajkumar	Yes	TNSCST Project Sanctioned with Rs 7500/- (Mr.K.Ravikumar	
Students Projects-UG & PG	Mr.D.Sundarrajan Mr.P.Raja	Yes	Encourage the students to apply for getting Funded projects	15 August

Subject Allocation and Time Table	Mr, V.M. Saravanan	Yes		Available and Updated
Internal Exam & Class Test Conduction	Mr.K.Kalimuthu	Yes		Available and Updated
Minutes of Dept Meeting	Dr.A.Muthiah	Yes	Verified	
Dept Recruitment	Dr.S.M. Rajkumar	Yes		Available and Updated
Board of Studies file- curriculum syllabus, Minutes, etc.	Dr.P.Pitchipoo	Yes		Available and Updated
Feedbacks from Stakeholders- Alumni, Employer, Parents etc.	Mr.M.Ramar	Yes		Available and Updated
Lab Maintanance / Service Log- book	Mr.S.Veera saravanakumar	Yes		Available and Updated
No.of programme organized	Mr. Y.Kumarasamy	Yes	No:04	
Department Achievements	:	Faculties and S	d for TNSCST projects tudents got NPTEL Certific nany prizes in Symposium s.	
Any other Remarks by Auditors	Files are re More assign	gularly updated nments can be		nment & Seminar marks

Signature(s) of the Auditors and Name

Head of the Department

1.

2. gri

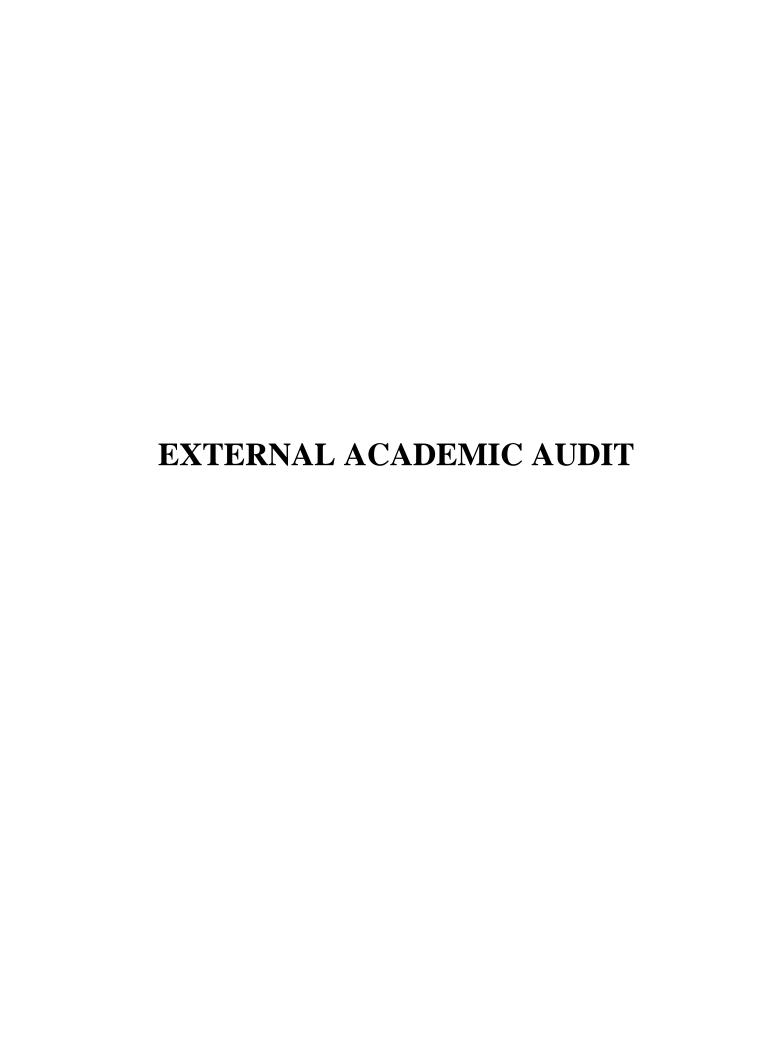
G. SINE BRAVECON)

Verified by

IQAC Co-ordinator

Dean

Principal blo





P.S.R Engineering College, Sivakasi – 626140 (An Autonomous Institution, Affiliated to Anna University, Chennai) Minutes of the External Academic Audit Report

The academic audit was conducted at P.S.R.Engineering College on 19.07.2019 for the academic year 2018 – 19, by the following external expert members.

S. No.	Name of the Members
1	Dr.P.Latha
	Head of the Department,
	Department of Electrical and Electronics Engineering,
	Government College of Engineering,
	Tirunelveli – 627 007.
2	Dr.R.Ramesh Pandian
	Associate Professor,
	Department of Civil Engineering,
	Anna University Regional Campus,
	Dindigul - 624 622

The committee was provided with the copies of regulation 2012 & 2016, Curriculum Syllabi of all the autonomous programmes and external audit report of the academic year 2017-2018 for favor of perusal.

After a brief appraisal of the regulations, the team visited the exam cell and office of the Controller of Examinations. The following documents were carefully scrutinized.

- 1. End Semester Examination process.
- 2. Regulations 2012 & 2016
- 3. Syllabus
- 4. End Semester Questions and Answer Key
- 5. Answer Booklets and valuation process.
- 6. Mark entry process.

Based on the scrutiny of the above records followed by an exit meeting with Director, Principal, Dean and COE, the committee furnishes its audit report.

Also the committee visited the departments for academic auditing and samples of the following documents were checked.

- Course Files.
- > Internal Examination File
- BOS Meeting File

Report of External Exam cell Audit - 2018 - 2019:

- 1. The committee appreciates the formation, function and process of COE office.
- Academic calender and time table have been prepared in advance and followed meticulously.
- 3. Continuous assessment and award of internal marks are done effectively.
- 4. The committee is fully satisfied with the smooth and orderly functioning of the Office of the Controller of Examinations in the conduct of End Semester Examinations.
- 5. The standards of question paper and valuation process are appreciable.
- 6. Random scrutiny of the all records revealed that the entries are proper.
- 7. The Valuation and Revaluation process were done meticulously and in an unbiased manner.
- 8. The committee is of the opinion that P.S.R Engineering College, COE Office is exercising the responsibilities of the Autonomous status in a right way.

Name of the Members	Signature
Dr.P.Latha	
Head of the Department,	NIH
Department of Electrical and Electronics Engineering,	Plaths 200g
Government College of Engineering,	19 (0) 200
Tirunelveli – 627 007.	
Dr.R.Ramesh Pandian	
Associate Professor,	J 1
Department of Civil Engineering,	d. distort 19
Anna University Regional Campus,	14/011
Dindigul - 624 622	



P.S.R Engineering College, Sivakasi – 626140 (An Autonomous Institution, Affiliated to Anna University, Chennai) Minutes of the External Academic Audit Report

The academic audit was conducted at P.S.R.Engineering College on 12.06.2018 for the academic year 2017 - 18, by the following external expert members.

SL NO	Name of the Members	
1	Dr.S.Iniyan Professor / Mechanical Anna University, Chennai - 600025	
2	Dr.K.Ramanathan Professor / Mechanical Alagappa Chettiar college of Engineering and Technology, Karaikudi – 630 003.	

The committee was provided with the copies of regulation 2012 & 2016, Curriculum Syllabi of all the autonomous programmes and external audit report of the academic year 2016-2017 for favor of perusal.

After a brief appraisal of the regulations, the team visited the exam cell and office of the Controller of Examinations. The following documents were carefully scrutinized.

- 1. End Semester Examination process.
- 2. Regulations 2012 & 2016
- 3. Syllabus
- 4. End Semester Questions and Answer Key
- 5. Answer Booklets and valuation process.
- 6. Mark entry process.

Based on the scrutiny of the above records followed by an exit meeting with Director, Principal, Dean and COE, the committee furnishes its audit report. Also the committee visited the departments for academic auditing and samples of the following documents were checked.

- Course Files.
- Internal Examination File
- BOS Meeting File

Report of External Exam cell Audit - 2017 - 2018:

- 1. The committee appreciates the formation, function and process of COE office.
- 2. Academic calender and time table have been prepared in advance and followed meticulously.
- 3. Continuous assessment and award of internal marks are done effectively.
- 4. The committee is fully satisfied with the smooth and orderly functioning of the Office of the Controller of Examinations in the conduct of End Semester Examinations.
- 5. The standards of question paper and valuation process are appreciable.
- 6. Random scrutiny of the all records revealed that the entries are proper.
- 7. The Valuation and Revaluation process were done meticulously and in an unbiased manner.
- 8. The committee is of the opinion that P.S.R Engineering College, COE Office is exercising the responsibilities of the Autonomous status in a right way.

Name of the Members	Signature Wow 12 6 18	
Dr.S.Iniyan Professor / Mechanical Anna University, Chennai - 600025		
Dr.K.Ramanathan Professor / Mechanical Alagappa Chettiar college of Engineering and Technology, Karaikudi – 630 003.	Dwathmy	



P.S.R. Engineering College, Sivakasi - 626140



(An Autonomous Institution - Affiliated to Anna University) OFFICE OF THE CONTROLLER OF EXAMINATIONS

Phone No: 04562-239097

Website:www.psr.edu.in

Email id:coe@psr.edu.in

Date: 12.06.18

External Academic Audit

Dept.	mech	Programme	B·E
Sem.		Experts Name & Address	Dr. S. Iniyan
Sub. Code & Title	Sample	e Subjec	les

1. Coverage of Question paper with the syllabus and format.

well covered.

2. Standard of question paper.

good.

3. Typographical errors if any.

wil

4. Adequacy of key and distribution of marks.

Fair

5. Standard of valuation of answer scripts.

gred.

6. Remarks.

The syllahus is covered well in the querien fayor. The correction and distribution of mountes are good. The standard of querien payor is also good. Signature of the Expert Member



P.S.R. Engineering College, Sivakasi - 626140



(An Autonomous Institution - Affiliated to Anna University) OFFICE OF THE CONTROLLER OF EXAMINATIONS

Phone No: 04562-239097

Website:www.psr.edu.in

Email id:coe@psr.edu.in

Date: 12.06.18

External Academic Audit

Dept.	Mech	Programme	13.E
Sem.		Experts Name & Address	DV.K.RAmanethan Proffmech Alagappa Chettion College of Free & Technows
Sub. Code & Title			Erec & Technows

1. Coverage of Question paper with the syllabus and format.

well covered

2. Standard of question paper.

V- soud

3. Typographical errors if any.

MIL

4. Adequacy of key and distribution of marks.

and

5. Standard of valuation of answer scripts.

and

6. Remarks.

valuation is

Signature of the Expert Member



P.S.R Engineering College, Sivakasi – 626140 (An Autonomous Institution, Affiliated to Anna University, Chennai) Minutes of the External Academic Audit Report



The academic audit was conducted at P.S.R.Engineering College on 25.03.2017 for the academic year 2016 - 17. The following expert members were presented.

SL NO	Name of the Members
1	Dr. Selvin Rajadurai Associate Professor/Mechanical Government College of Engineering, Tirunelveli-627007
2	Dr. K. Karthikeyan Associate Professor/CSE Anna University Regional Campus, Madurai - 625019
3	Prof. R.Ramesh Pandian Assistant Professor/Civil University College of Engineering, Dindigul - 624622

The committee was provided with the copies of regulation 2012 & 2016, Curriculum Syllabi of all the autonomous programmes and external audit report of the academic year 2016-2017 for favor of perusal.

After a brief appraisal of the regulations, the team visited the exam cell and office of the Controller of Examinations. The following documents were carefully scrutinized.

- 1. End Semester Examination process.
- 2. Regulations 2012 & 2016
- 3. Syllabus
- 4. End Semester Questions and Answer Key
- 5. Answer Booklets and valuation process.
- 6. Mark entry process.

Based on the scrutiny of the above records followed by an exit meeting with Director, Principal, Dean and COE, the committee furnishes its audit report.

Report of External Exam cell Audit - 2016 - 2017:

- 1. The committee appreciates the formation, function and process of COE office.
- 2. The committee is fully satisfied with the smooth and orderly functioning of the Office of the Controller of Examinations in the conduct of End Semester Examinations.
- 3. The standards of question paper and valuation process appreciable.
- 4. Random scrutiny of the all records revealed that the entries are proper.
- 5. The Valuation and Revaluation process were done meticulously and in an unbiased manner.
- 6. The committee is of the opinion that P.S.R Engineering College, COE Office is exercising the responsibilities of the Autonomous status in a right way.

Name of the Members	Signature
Dr. Selvin Rajadurai Associate Professor/Mechanical Government College of Engineering, Tirunelveli-627007	J. 2 - 20/10/10.
Dr. K. Karthikeyan Associate Professor/CSE Anna University Reginal Campus, Madurai - 625019	X.X 7 25/3/17
Prof. R.Ramesh Pandian Assistant Professor/Civil University College of Engineering, Dindigul - 624622	4. 4 25/23/18



P.S.R. ENGINEERING COLLEGE, SIVAKASI - 626 140

(An Autonomous Institution, Affiliated to Anna University, Chennai)

OFFICE OF THE CONTROLLER OF EXAMINATIONS

Phone No: 04562-239097

Website: www.psr.edu.in

E-mail id: coe@psr.edu.in

Date: 25.03.17

External Academic Audit

Dept.	Mech- Es.	Programme	B-E / M-E
Sem	As applicable	Experts Name & Address	J- SELWIN RAJADURA) APME, GCE, Timelvelr-7
Sub. Code & Title	Sany	ble Subje	uto All UTIA.

1. Coverage of Question paper with the syllabus and format.

Well within the Syllabou

2. Standard of question paper.

Good

3. Typographical errors if any.

Nil

4. Adequacy of key and distribution of marks.

Adequate

5. Standard of valuation of answer scripts.

up to the mark.

6. Remarks.

Good.

Signature of the Expert Member



P.S.R. ENGINEERING COLLEGE, SIVAKASI - 626 140

(An Autonomous Institution, Affiliated to Anna University, Chennai)

OFFICE OF THE CONTROLLER OF EXAMINATIONS

Phone No: 04562-239097

Website: www.psr.edu.in

E-mail id: coe@psr.edu.in

Date: 25.03.17

External Academic Audit

Dept.	civil	Programme	15.E/me
Sem	As Applicable	Experts Name & Address	R. RAMESO PANDION. AP/CIVII. University College of Engry Dividigal -624622
Sub. Code & Title	Sa	mple sub	Sect Alloted

1. Coverage of Question paper with the syllabus and format.

The Querron Paper within me Syllabus.

2. Standard of question paper.

V. good

3. Typographical errors if any.

1:1

4. Adequacy of key and distribution of marks.

YES, Adequate

5. Standard of valuation of answer scripts.

good.

6. Remarks.

ni!

(R. Romes Pann) Signature of the Expert Member



P.S.R. ENGINEERING COLLEGE, SIVAKASI - 626 140

(An Autonomous Institution, Affiliated to Anna University, Chennai)

OFFICE OF THE CONTROLLER OF EXAMINATIONS

Phone No: 04562-239097

Website: www.psr.edu.in

E-mail id: coe@psr.edu.in

Date: 25.03.17

External Academic Audit

Dept.	CSE	Programme	B.EM.E
Sem	AS Applicable	Experts Name & Address	Dr.K. Karthikeyan ApksEman Anna University, Rogiosal Cappus, Madurai - 625 019.
Sub. Code & Title	Soinp	le su	bsent Alloted.

1. Coverage of Question paper with the syllabus and format.

within the symathus and Format.

2. Standard of question paper.

Good.

3. Typographical errors if any.

-Ni1-

4. Adequacy of key and distribution of marks.

Yes, Adeque

5. Standard of valuation of answer scripts.

good.

6. Remarks. _NU

Signature of the Expert Member



P.S.R Engineering College, Sivakasi – 626140 (An Autonomous Institution, Affiliated to Anna University, Chennai) Minutes of the External Academic Audit Report



The academic audit was conducted at P.S.R.Engineering College on 19.08.2016 for the academic year 2015 - 16, by the following external expert members.

SL NO	Name of the Members		
1	Dr. Selvin Rajadurai Associate Professor/Mechanical Government College of Engineering, Tirunelveli-627007.		
2	Dr.S.Baulkani, Assoc. Prof, Dept of ECE, Govt College of Engg, Tirunelveli.		

The committee was provided with the copies of regulation 2012 & 2016, Curriculum Syllabi of all the autonomous programmes and external audit report of the academic year 2014-2015 for favor of perusal.

After a brief appraisal of the regulations, the team visited the exam cell and office of the Controller of Examinations. The following documents were carefully scrutinized.

- 1. End Semester Examination process.
- 2. Regulations 2012 & 2016
- 3. Syllabus
- 4. End Semester Questions and Answer Key
- 5. Answer Booklets and valuation process.
- 6. Mark entry process.

Based on the scrutiny of the above records followed by an exit meeting with Director, Principal, Dean and COE, the committee furnishes its audit report. Also the committee visited the departments for academic auditing and samples of the following documents were checked.

- Course Files.
- > Internal Examination File
- > BOS Meeting File

Report of External Academic Audit - 2015 - 2016:

- 1. The committee appreciates the formation, function and process of COE office.
- 2. Academic calender and time table have been prepared in advance and followed meticulously.
- 3. Continuous assessment and award of internal marks are done effectively.
- The committee is fully satisfied with the smooth and orderly functioning of the Office of the Controller of Examinations in the conduct of End Semester Examinations.
- 5. Random scrutiny of the all records revealed that the entries are proper.
- 6. Course plan, coures delivery, record of class work, attendance and all other records are well maintained.
- 7. The committee is of the opinion that P.S.R Engineering College, COE Office is exercising the responsibilities of the Autonomous status in a right way.

Name of the Members	Signature
Dr. Selvin Rajadurai Associate Professor/Mechanical	
Government College of Engineering,	J. l=
Tirunelveli-627007.	19/8/16
Dr.S.Baulkani,	
Assoc. Prof, Dept of ECE,	0011
Govt College of Engg,	S. Rushan
Tirunelveli.	< 19.01.10



P.S.R. Engineering College, Sivakasi - 626140



(An Autonomous Institution - Affiliated to Anna University)
OFFICE OF THE CONTROLLER OF EXAMINATIONS

Phone No: 04562-239097

Website:www.psr.edu.in

Email id:coe@psr.edu.in

Date: 19.08.16

External Academic Audit

Dept.	Mech. Engy	Programme	B- E (M-€
Sem.	As appliable	Experts Name & Address	J. SELWIN RAJADURAL APME GICE TIMENER
Sub. Code & Title	Sampi	e sujeu	ts

1. Coverage of Question paper with the syllabus and format.

Well within the Syllabus

2. Standard of question paper.

Good

3. Typographical errors if any.

Nil

4. Adequacy of key and distribution of marks.

Adequate

5. Standard of valuation of answer scripts.

Upto the mark.

6. Remarks.

Good

Signature of the Expert Member



P.S.R. Engineering College, Sivakasi - 626140



(An Autonomous Institution - Affiliated to Anna University)
OFFICE OF THE CONTROLLER OF EXAMINATIONS

Phone No: 04562-239097

Website:www.psr.edu.in

Email id:coe@psr.edu.in

Date: 19.08.16

External Academic Audit

Dept.	Programme
Sem.	Experts Name & Ds. S. Bowl Kani Address
Sub. Code & Title	

1. Coverage of Question paper with the syllabus and format.

with in the Syllabors.

2. Standard of question paper.

Cood.

3. Typographical errors if any.

- NIL.

4. Adequacy of key and distribution of marks.

Yes. Adequal.

5. Standard of valuation of answer scripts.

Com.

6. Remarks.

NIL.

Signature of the Expert Member

P.S.R. ENGINEERING COLLEGE SIVAKASI – 626140

Action Taken Report on External Academic Audit -2014-15

9.6.2016

SI No	Suggestions / Recommendations	Action Taken
1	New regulation based on Choice Based Credit System (CBCS) may be introduced	CBCS is implemented under Regulation 2016
2	Rules and regulation for conducting Supplementary Examination may be prepared and followed with the approval of academic statutory bodies of the college	Implemented
3	Students may be encouraged to take up self-learning through online open courses	Implemented. Students are encourage to register NPTEL courses

Principal 9/06/2018

PRINCIPAL
P.S.R. ENGINEERING COLLEGE
SIVAKASI

ACADEMIC AUDIT REPORT FOR THE YEAR 2014 -15 OF P.S.R. ENGINEERING COLLEGE, SIVAKASI - 626140

All UG programmes and PG programmes offered by P.S.R.Engineering College under Autonomus scheme have been audited based on the invitation of the Principal for the academic year 2014-15 on 17th October 2015. The committee was provided with the academic calendar, regulation 2012 copy, curriculum, syllabi and time table of all the programmes and external audit report of the academic year - 2013 -14 for reference. The team visited all the departments and the Office of the Controller of Examinations and scrutinized the processes and documents.

The committee is pleased to furnish its report based on scrutiny of the records and documents of the departments and COE office as below:

- Some samples of Course / Lesson plan, Course delivery, Record of class work, attendance have been verified and they found to be well prepared and maintained as per the requirements.
- In all the course plan and syllabus, mapping of Course Outcomes with Programme Outcomes table is included. This is appreciated as it is an important requirement in Outcome Based Education.
- > All the academic activities were carried out as per the Academic Calendar.
- > Bloom's Taxonomy is being followed in question paper setting.
- > Tutorial Classes have been conducted as per the Time Table.
- > Internal assessment test, model examinations are conducted and evaluated according to
- The standards of question paper and valuation process are appreciable.
- Supplementary Examination has been introduced as per the recommendation of the Academic Council of the College.

The committee suggests the following for further improvement:

 New regulation based on Choice Based Credit System (CBCS) may be introduced as per the guidelines of UGC

- Rules and regulation for conducting Supplementary Examination may be prepared and followed with the approval of academic statutory bodies of the college
- The students may be encouraged to take up self-learning through online open courses.
- · Question banks may be prepared for the benefit of slow learners

The above are only suggestions and not deficiencies. Overall performance in the academic is highly commendable.

Sl No Name of the Members Signature

1 Dr.S.Rajakarunakaran,
Professor & Head, Ramco Institute of Tech
Rajapalayam.

2 Dr.S.Nagan, Assoc. Prof
Dept of Civil, Thiagarajar College of Engg.
Madurai.

3 Dr.S.Baulkani, Assoc. Prof
Dept of ECE, Govt College of Engg,
Tirunelveli.

4 Dr.P.Latha, Assoc. Prof
Dept of CSE, Govt College of Engg,

Tirunelveli.



P.S.R ENGINEERING COLLEGE

(An Autonomous Institution & Affiliated to Anna University, Chennal)



DEPARTMENT OF ECE CIRCULAR

03.07.2018

CLASS COMMITTEE MEETING

First meeting of class committee for Second year (B.E. ECE) students are arranged on 09.07.2018 (Monday) at 12.30 p.m in VLSI lab. The students and faculties are requested to attend the meeting without fail.

Agenda of meeting:

- 1. Syllabus coverage
- 2. Discipline
- 3. General Queries
- 4. Preparation for Internal Assessment test I

Course	Course title	Faculty In-Charges			
code		Section I	M Section II		
161MA31	Transforms and Partial Differential Equations	Ms.B.Suganya	Br.V.Ramamoorthy		
161EC31	Analog Electronic Circuits	Dr.P.Marichamy/ Ms.T.Vaishubiah	Ms.M.Vimala		
161EC32	Digital Electronics	Mr.G.Lingasamy	Mr.S.Athimoolam WA		
161EC33	Electromagnetic Fields /00	Dr.P.Ranjith Kumar	Ms.P.Krishnaleela		
161EC34	Electronic Measurements and Instrumentation	Ms.V.Rohini	Mr.N.S.Yoga Ananth		
161EC35	Data Structures and C++	Ms.K.R.Indira	Ms.K.R.Indira		
161EC37	Analog Electronic Circuits Laboratory	Ms.P.A.Mathina Ms.M.Vimala	Ms.P.A.Mathina Ms.M.Vimala		
161EC38	Data Structures and C++ Laboratory	Ms.K.R.Indira Ms.V.Rohini	Ms.K.R.Indira Ms.V.Rohini		
161HS39	Functional English I	Mr.G.Ganesh Kumar	Ms.J.Blessing Kiruba		

Student Members:

S.No	Section -I	Section -II			
1.	Archana P P. Anchana	Sivaranjani G 67 . Sivoragan			
2.	Chitra J J. C. Witzo	Saranya S S. Savanya,			
3.	Kanagalakshmi M.M. Kanagalak Shini	Suguna R Regard			
4.	Mari Shanker Raja A	Surya Prakash L S L. & Surya			
5.	Marimuthu M 17. Mary Willy	Vijay Prakash R			
6.	Gnana Prakashraj A A. Gnanes'	Vignesh K K wayner			

Chair Person

HOD/ECE

®

P.S.R, ENGINEERING COLLEGE SIVAKASI-626140

DEPARTMENT OF ELECTRONICS AND COMMUNICATION



EVALUATION OF STAFF BY STUDENTS (ACADEMIC YEAR 2017-2018)EVEN SEM

YEAR/SEM: II/IV

SEC: I

.No	Aspects			COURSE	CODE	4	
		161MA41	161EC41	161EC42	161EC43	161EC44	161EC45
1.	Punctuality	4.70	4.50	4.87	4.73	4.48	4.7
2.	Regularity In Taking Classes	4.55	4.30	4.61	4.36	4.39	4.55
3.	Completes Syllabus Of The Course In Time	4.45	4.55	4.04	4.27	4.48	4.45
4.	Makes Alternate Arrangement Of Class In His/Her Absence	4.30	4.20	4.39	4.50	4.52	4.3
5.	Focus On Syllabi	4.40	4.40	4.35	4.23	4.35	4.4
6.	Self Confidence	4.25	4.10	4.57	4.27	4.22	4.2
7.	Communication Skills	4.25	4.15	4.52	4.23	. 4.43	4.1
8.	Teaching The Subject Matter	4.60	4.35	4.48	4.41	4.52	4.35
9.	Skill Of Linking Subject To Life Experience & Creating Interest In The Subject	4.25	3.85	4.26	4.27	4.30	4.2
10.	Refers To Latest Development In The Field	4.40	3.75	4.09	4.45	4.35	4.3
11.	Usage Of Teaching Aids(Ohp,Blackboard,Ppts)	4.45	4.10	4.30	4.50	4.43	4.45
12.	Clarify In Usage Of Blackboard / White Board	4.30	4.10	4.26	4.14	4.61	4.3
13.	Uses Of Innovative Teaching Methods	4.15	3.65	4.30	4.68	4.48	4.15
14.	Helping Approach Towards Varied Academic Interests Of Student	4.30	3.70	4.43	4.64	4.52	4.3
15.	Approach Towards Developing Professional Skills Among	4.50	3.80	4.65	4.59	4.52	4.5
16.	Students Helps Students In Realizing Career	4.55	3.90	4.48	4.50	4.30	4.5
17.	Regular Checking Of Lab Log	4.50	4.10	4.43	4.36	4.48	4.5
18.	Books /Note Books Availability Of Teacher In The Lab or Whole Duration Of Lab Hours	4.20	4.20	4.36	5.77	4.48	4.:

	PERCENTAGE(%)	86.2%	83%	88.2%	89.8%	88.2%	85.6%
	TOTAL AVERAGE	4.31	4.15	4.41	4.49	4.41	4.28
25.	Act As A Role Model	4.35	4.50	4.35	4.27	4.17	4.3
24.	Inspires Students Of Ethical Conduct	4.00	4.20	4.43	4.64	4.17	4
23.	Tendency Of Inviting Opinion & Question On Subject Matter From Student	3.90	4.15	4.52	4.64	4.39	3.9
22.	Skills Of Addersing In Appropriate Behaviour Of Student	4.15	4.20	4.22	4.50	4.39	4.15
21.	Control Mechanism In Effectively Conducting The Class	4.10	4,35	4.39	4.59	4.48	4.1
20.	Motivation To Applying Patents/Proposals	4.05	4.30	4.43	4.41	4.39	4.05
19.	Takes Interests In Conduct of lab/Seminars/GD/Develop Programme Coding/Circuit Design/Applying Lab Concept In Real Life Problems	4.10	4.30	4.39	4.27	4.39	4.1

		161EC42	161EC43	161EC44	161EC45
161MA41 Mr.R. Venkates	Ms.K.Ramalakshmi	Mr.S.Balasubramanian	Dr.K.Valarmathi	Ms.P.Krishnaleela	Ms.B.Mangiyarkkarasi
laware	***************************************				

PREPARED BY Mrs.P.Krishnaleela,AP/ECE Ms.M.Indhumathi,AP/ECE HOD/ECE

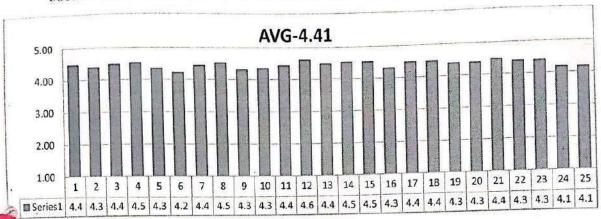
PRINCIPAL





FACULTYNAME: Mrs.P.KRISHNALEELA,AP/ECE YEAR: II SECTION: I SEMESTER: IV

COURSE NAME: 161EC44/TRANSMISSION LINES AND WAVEGUIDES



1 - Punctuality	Punctuality 2 -Regularity In Taking Classes 3 - Completes Syllabus Of The Course In Time 4 -Makes Alternate Arrangeme Class In His/her Absence		4-Makes Alternate Arrangement Of Class In His/her Absence	5 - Focus On Syllabi		
6 - Self Confidence	7 - Communication Skills	8 - Teaching The Subject Matter	9 Skill Of Linking Subject To Life Experience & Creating Interest In The Subject	10-Refers To Latest Development In The Field		
11-Usage Of Teaching Aids(OHP,Blackboard,PPTs)	12-Clarify In Usage Of Blackboard /White Board	13-Uses Of Innovative Teaching Methods	14-Helping Approach Towards Varied Academic Interests Of Student	15-Approach Towards Developing Professional Skills Among Students		
16-Help students In Realizing Career Goals	17-Regular Checking Of Lab Log Books /Note Books	18-Availability Of Teacher In The Lab For Whole Duration Of Lab Hours	19-Takes Interests In Conduct of lab/Seminars/GD/Develop Programme Coding/Circuit Design /Applying Lab Concept In Real Life Problems	20-Motivation To Applying Patents/Proposals		
21-Control Mechanism In Effectively Conducting The Class	22-Skills Of Addressing In Appropriate Behavior Of Student	23-Tendency Of Inviting Opinion & Question On Subject Matter From Student	24-Inspires Students Of Ethical Conduct	25-Act As A Role Model		

PREPARED BY

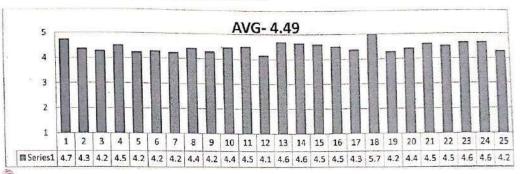
MRS.P.KRISHNA LEELA,AP/ECE MS.M.INDHUMATHI,AP/ECE





FACULTY NAME: Dr.K.VALARMATHI, HOD/ECE YEAR: II SECTION: 1 SEMESTER: IV

COURSE NAME: 161EC43/SIGNALS AND SYSTEMS



I — Punctuality	2 -Regularity In Taking Classes	3- Completes Syllabus Of The Course In Time	4 -Makes Alternate Arrangement Of Class In His/Her Absence	5 - Focus On Syllabi		
6 - Self Confidence	7 - Communication Skills	8 - Teaching The Subject Matter	9 Skill Of Linking Subject To Life Experience & Creating Interest In The Subject	10-Refers To Latest Development In The Field		
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16-Helps Students In Realizing Career toals	Students In Checking Of Realizing Career Lab Log Books /		19-Takes Interests In Conductoflab/Seminars/Gd/Develop Programme Coding/Circuit Design /Applying LabConcept In Real Life Problems	20-Motivation Fo ApplyingPatents/Proposa		
21-Control Mechanism In Effectively Conducting The Class	22-Skills Of Addersing In Appropriate Behaviour Of Student	23-Tendency Of Inviting Opinion & Question Op Subject Matter From Student	24-Inspires Students Of Ethical Conduct	25-Act As A Role Model		

PREPARED BY

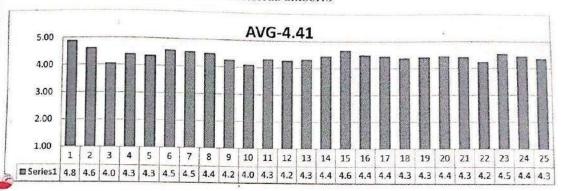
MRS.P.KRISHNA LEELA,AP/ECE MS.M.INDHUMATHI,AP/ECE





FACULTY NAME: MR.S.BALASUBRAMANIAN, AP/ECE YEAR: II SECTION: I SEMESTER: IV

COURSE NAME: 161EC42/LINEAR INTEGRATED CIRCUITS



1 - Punctuality	2 -Regularity In Taking Classes 3 - Completes Syllabus Of The Course In Time 4 -Makes Alternate Arrangement Of Class In His/her Absence		5 - Focus On Syllabi	
6 - Self Confidence	7 - Communication Skills	8 - Teaching The Subject Matter	9 Skill Of Linking Subject To Life Experience & Creating Interest In The Subject	10-Refers To Latest Development In The Field
 11-Usage Of Teaching Aids(OHP,Blackboard,PPTs)	DI II TERMININE II I I I I I I I I I I I I I I I I		15-Approach Towards Developing Professional Skills Among Students	
16-Help students In Realizing Career Goals	17-Regular Checking Of Lab Log Books /Note Books	18-Availability Of Teacher In The Lab For Whole Duration Of Lab Hours	19-Takes Interests In Conduct of lab/Seminars/GD/Develop Programme Coding/Circuit Design /Applying Lab Concept In Real Life Problems	20-Motivation To Applying Patents/Proposals
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PREPARED BY

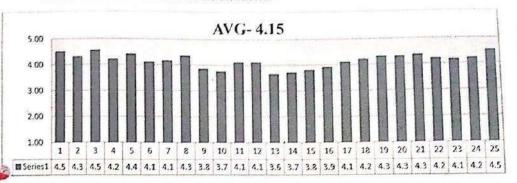
MRS.P.KRISHNA LEELA,AP/ECE MS.M.INDHUMATHI,AP/ECE





FACULTYNAME: MPs.M.RAMALAKSHMI,AP/ECE YEAR: II SECTION: 1 SEMESTER: IV

COURSE NAME: 161EC41/ANALOG COMMUNICATION



1 - Punctuality	2 -Regularity In Taking Classes	3-Completes Syllabus Of The Course In Time	4 -Makes Alternate Arrangement Of Class In His/her Absence	5 - Focus On Syllabi
6 - Self Confidence	7 - Communication Skills	8 - Teaching The Subject Matter	9 Skill Of Linking Subject To Life Experience & Creating Interest In The Subject	10-Refers To Latest Development in The Field
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PREPARED BY

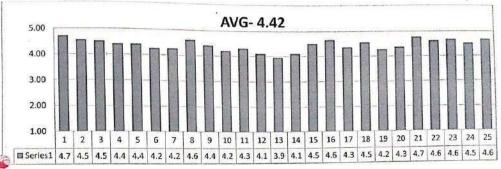
MRS.P.KRISHNA LEELA,AP/ECE MS.M.INDHUMATHI,AP/ECE





FACULTY NAME: Mr. VENKATESWARA, AP/MATHS YEAR: II SECTION: I SEMESTER: IV

COURSE NAME: 161MA41/TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATION



Classes Syllabu		3- Completes Syllabus Of The Course In Time	4 -Makes Alternate Arrangement Of Class In His/Her Absence	5 - Focus On Syllabi
6 - Self Confidence	7 - Communication Skills	8 - Teaching The Subject Matter	9 Skill Of Linking Subject To Life Experience & Creating Interest In The Subject	10-Refers To Latest Development In The Field
11-Usage Of Teaching Aids(OHP,Blackboard,PPTs)	12-Clarify In Usage Of Blackboard / White Board	13-Uses Of Innovative Teaching Methods	14-Helping Approach TowardsVaried Academic Interests Of Student	15-Approach Towards Developing Professional Skills Among Students
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Elw 7

PREPARED BY MRS.P.KRISHNA LEELA,AP/ECE MS.M.INDHUMATHI,AP/ECE



P.S.R. ENGINEERING COLLEGE

(An Autonomous Institution - Affliated to Anna University, Chennai)



SIVAKASI - 626 140

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING STAFF MEET-01

STAFF ATTENDED:

Mr.C.K.Ramar y

Dr.K.Valarmathi

Mrs.R.Meenaprakash

Mr.C.Shanmugaraja

Mrs.J.Meena

Mrs.K.Rama lakshmi &

Mr.S.Balasubramanian

Mr.S.Athimoolam

Mr.N.S.Yogaananth

Mr.G.Lingasamy &

Mrs.P.A. Mathina

Mrs.P.Lingeswari

DATE: 22.08.14

Mrs.D. Venkateshwari

Ms.M.Vijaya Gandhi

Ms.N.Krishna Praba

Mr.P.Ranjith Kumar

Ms.R.Sudha

Ms.R.Niveda

Mr.K.Raja

Ms.S.Abinaya 9 25

Ms.D.Vijayarohini &

Mr.R .Balakuma

Mr.H.Vignesh

Mr.S.Karthick

STAFF ABSENT: Mr. R. Arunkumar

DISCUSSION DETAILS:

- Discussions regarding syllabus coverage of all subjects and its effectiveness.
- 2. Had a review about the results of internal assessment test-1.
- 3. Got feedback from final year students as, more soft skill trainings are needed rather than aptitude training.
- ISO Surveillance auditing will be scheduled on August 26 & 27, 2014.
- 5. Students are instructed to wear proper dress code (i.e. Shirt inserted with pant, black shoes and belt). Girls should not wear leggings.
- Students were suggested to increase more no of department association activities.
- Motivation must be given to the students of III year for attending internship programs.
- 8. Department profile for placements must be prepared by Mrs.D.Venkateshwari.
- 9. Had an enquiry explanation from staff regarding results of internal assessment test, who scored less than 50%
- 10. Advised to improve the minimum results of internal assessment test II to be atleast

- 11. Overall pass percentage of the department for internal assessment test-II should be atleast 50% to 55%
- 12. Student database for placement like pass percentage, history of arrears must be upgraded by class advisor and placement coordinator.
- 13. Tech Mahendra placement will be scheduled in the month of October 2014
- 14. Planned to issue provisional certificate for ME students on 25th Aug, 2014.
- 15. Internal Assessment test -II will starts from 27th Aug, 2014.
- 16. One week placement training for III year students will be scheduled from 8th September, 2014.

17. Third year students is planned to undergo an industrial visit to Vickram Sarabhai space centre, Trivandrum on 23rd Aug, 2014.

Prepared by,

S. Alicya (S.ABINAYA, AP/ECE)



P.S.R ENGINEERING COLLEGE



(An Autonomous Institution & Affiliated to Anna University, Chennai)

DEPARTMENT OF ECE

Minutes of staff meeting held on 25.11.15 at 12:40pm in VLSI Laboratory

POINTS DISCUSSED:

- Model question paper for each subject has to be submitted on or before 4th December, 2015.
- 2. Unit wise Question bank has to be submitted on or before 4th December, 2015.
- 3. All faculties are requested to speed up their syllabus.
- 4. Every faculty is requested to send their course plan to our Department Assistant (DA) through mail.
- 5. Prepare course file and tutorial sheet in each subject for current semester.
- Project supervisors are asked to follow their batch students and ask them to submit their project work for every week.
- 7. Faculties must get signature on log book from HOD for every week.
- Academic audit is going to be held on 30.11.15, so all staff members are asked to be ready with their course file and log book for previous semester.
- Class advisors are requested to collect the student participation (workshop, seminar, association etc...) certificates and submit to Mr.R.Balakumar AP/ECE
- Faculties are asked to give their participation (workshop, seminar, FDP etc..) certificates to Mr.R.Balakumar AP/ECE
- 11. Class advisors are requested to submit student absentee's statement for every month, if the student was in a long leave, must inform their parents through letter.
- 12. Concerned NBA incharges are requested to be updated on their criteria's.

Prepared by,

(A.Krishnaveni AP/ECE)

HOD/ECE 24111/



P.S.R ENGINEERING COLLEGE



(An Autonomous Institution & Affiliated to Anna University, Chennai)

DEPARTMENT OF ECE

Minutes of Department staff meeting held on 07.09.2016 at 12:40pm in VLSI Laboratory

DISCUSSION

- The faculties are asked to prepare Unit wise Question bank and it has to be submitted on or before 15th Sep 2016.
- Commencement of Internal Assessment-II will be held from 26th Sep 2016.
- Second Class Committee Meeting was instructed to conduct next week. The Students are motivated to get great score in next IAT.
- 4. Placement classes are conduct based on GD, stage presence, and verbal.
- The faculty advisors are asked to collect the softcopy and hardcopy of the student's passport size photo, signature, resume and all other needed information.
- It was announced to the faculty members, for Staff Performance Appraisal. The faculties
 are motivated to attend FDP/STTP/QIP in various NITs and IITs. It was motivated to
 submit/publish paper in conference per reviewed journals.
- 7. It was instructed to the faculty advisors, the industrial visit is restricted for one day only.
- Mrs.K.Ramalakshmi had allot for academic council of 2016 to 2017(both UG & PG) as a new member.

Prepared by,

HOD/ECE

[R.N.NIVETHITHA,M.E.,Asst.Prof/ECE]



P.S.R.ENGINEERING COLLEGE



(An Autonomous Institution & ISO 9001:2008 certified Institution) Sivakasi-626 140, Virudhunagar Dt., Tamil Nadu

DEPARTMENT OF ECE

Minutes of placement meeting held on 11.04.2018 at 12.30 pm in VLSI Laboratory.

POINTS DISCUSSED:

- Staffs were instructed to prepare their respective course material and submit it to the HOD on or before 25.05.2018.
- 2. Staff members must motivate their students to attend inplant training and internship programs during semester holidays.
- Students are asked to register the NPTEL courses for forthcoming semester.
- Various placement incharges are allotted to II,III and IV year students.
- Placement classes to be conducted in different sessions like GD, mock interview, online test and technical languages.
- 6. Faculties are instructed to conduct GATE clases for final year students.
- Faculties are instructed to prepare the students in programming languages like C,C++ and JAVA.

Prepared by

(Mrs.S.MAHALAKSHMI, AP/ECE)

HOD/ECE



P.S.R.ENGINEERING COLLEGE



(An Autonomous Institution & ISO 9001:2008 certified Institution) Sivakasi-626 140, Virudhunagar Dt., Tamil Nadu

DEPARTMENT OF ECE MINUTES OF MEETING

DATE: 01.03.2019

TIME: 12.30 PM

VENUE: VLSI LAB

POINTS DISCUSSED:

- 1. Faculty members are instructed to prepare the Progress Report for Model Exams.
- All the staff members are asked to update their Log book, Course File, Course Material.
- 3. The Lab Incharges are asked to prepare their Lab Reqirements.
- 4. College day will be deliberated on Last Week of March.
- 5. Class Advisors should prepare academic prize winners list for their Classes.
- HoD instructed the Faculty members to identify the Slow learners in their Subjects and advised to take a special care on them.
- Staff members are asked to fill the count of printout sheets in that concerned note book.
- The faculties are asked to prepare Question Bank and it has to be submitted on or before 01.04.2019.

Prepared by

(Ms.M.Indhu Mathi, AP/ECE)

HOD/ECE



P.S.R ENGINEERING COLLEGE



(An Autonomous Institution & Affiliated to Anna University, Chennai)

DEPARTMENT OF ECE

Minutes of placement meeting held on 06.12.2017 at 12:40pm in VLSI Laboratory

POINTS DISCUSSED:

- 1. Staffs were instructed to prepare their respective course material and submit it to the head of the department on or before 12,Dec 2017.
- 2. Course files must be updated frequently to make it effective.
- 3. BOS meeting, syllabus and curriculum revision for UG and PG program must be revised. Revision should include innovation in lab exercise, new open source hardware and software and downsize the syllabus to our environment by comparing with Anna university syllabus and other premier/autonomous institution.
- 4. Suggest the prescribed textbooks to students and recommend new textbooks to both central and department library.
- Students are asked to get signature in their observation and record notebooks periodically.

Prepared by

HOD/ECE

[R.N.NIVETHITHA,M,E,.Asst.Prof/ECE1



P.S.R. ENGINEERING COLLEGE SIVAKASI-626 140



(An Autonomous Institution, Affiliated to Anna University, Chennai)

DEPARTMENT OF ECE

PREFACE

COURSE NAME : SIGNALS AND SYSTEMS

COURSE CODE : 161EC43

YEAR/SEMESTER/SECTION : II/IV/II

PROGRAMME : B.E.,ECE

NAME OF THE FACULTY : Mrs.P.LINGESWARI, AP/ECE

ACADEMIC YEAR : 2017-2018

DURATION : NOV'17 - APRIL'18

REGULATION : 2016

PREPARED BY

Mrs. P.LINGESWARI, AP/ECE

APPROVED BY

HOD/ECE

161EC43	3 SIGNALS AND SYSTEMS						C
	week and the second sec				3-2-0		4
Programme:	B.E. – Electronics and Communication Engineering	Sem:	IV	Cate	gory:	PC	
AIM:	To study and analyze the characteristics of systems.	continuou	s, disc	crete si	gnals a	nd	
Course Outcor							
CO2: Determin CO3: Signify C CO4: Apply Fo CO5: Apply Z t	ill be able to he properties of signals and systems. e the appropriate signals for basic signal proc T systems in the Frequency domain using For urier transform and Laplace transform to Con ransform to Characterize Discrete time system e block diagrams for complex systems.	urier Analy itinuous Ti	vsis				

CLASSIFICATIO	ON OF SIGNALS AND SYSTEMS	12
Continuous and D	ssification of signals - Continuous and Discrete signals, Periodic and Apstic and Random signals, Energy and Power signals - Classification of sy Discrete systems, Static and Dynamic, Linear and Nonlinear, Time-variausal and Non causal, Stable and Unstable.	sterris -
	ONTINUOUS TIME SIGNALS	12
Continuous Time !	lysis-spectrum of Continuous Time signals- Fourier and Laplace Transforms. Signal Analysis - Properties of Fourier and Laplace Transforms.	orms in
LINEAR TIME I	NVARIANT- CONTINUOUS TIME SYSTEMS	12
Fourier and Laplac	tion-Block diagram representation-impulse response, convolution in ce transforms in Analysis of CT systems.	tegrals-
	DISCRETE TIME SIGNALS	12
DTFT - Z Transfor	g - Aliasing, Reconstruction of CT signal from DT signal- DTFT - Properm - Properties of Z Transform.	
DINEAR TIME I	NVARIANT-DISCRETE TIME SYSTEMS	12
Fourier and Z Tran	ons-Block diagram representation-Impulse response - Convolution sum- D isform Analysis of Recursive & Non-Recursive systems.	screte
TEXT BOOKS	TOTAL PERIODS	60
TEXT BOOKS		
 Simon Haykins Sons, Reprint 2012 	and Barry Van Veen, "Signals and Systems", Second Edition, John Wil	ey and
REFERENCES		
R.E.Zeimer, W. Pearson, 2007.	nciples of Linear Systems and Signals", Second Edition, Oxford, 2009. H.Tranter and R.D.Fannin, "Signals & Systems - Continuous and Dis- signals & Systems Analysis using Transform Methods & MATLAB",	crete",

Course Outcomes		Program Outcomes (POs)													Program Specific Outcomes (PSOs)				
O dicoilles	POL	POI	700	1904	108	PDN	107	1108	POT	POIN	1000	PO12	P501	P502	PSOS	PSO			
COI	3	3											3	1	2	1			
CO2	3	3	2	2		1	1	1				1	3		2	1			
CO3	3	3	3	3									3		2	- 1			
CO4	3	3	3	3.									3		9	4			
CO5	3	3	.3	3									3		2	1			
CO6	3	3	3	2									2	10	2	1			

Enter correlation levels 1, 2 or 3 as defined below: 1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)





P.S.R ENGINEERING COLLEGE

(An Autonomous Institution & Affiliated to Anna University, Chennai)
DEPARTMENT OF ECE



COURSE PLAN

COURSE CODE & NAME: 161EC43 & SIGNALS AND SYSTEMS SEMESTER: IV SECTION: II FACULTY NAME: Mrs.P.Lingeswari,AP/ECE YEAR: II PROGRAMME: ECE

UNIT NO.	S.NO.	TOPICS	PERIODS	CUM. PERIODS	REF. BOOKS				
		CLASSIFICATION OF SIGNALS AND SYSTEM	S						
	1	Basic signals, Classification of signals	1	1	1				
70	2	Continuous and Discrete signals, Periodic and Aperiodic signals, Deterministic and Random signals	2	3					
1	3	Energy and Power signals	2	5	T1 &				
10.00	-4	Classification of systems - Continuous and Discrete systems, Static and Dynamic,	2	7	R2				
	5	Linear and Nonlinear, Time-variant and Time-invariant, Causal and Non causal, Stable and Unstable	2	9					
	6	Tutorial	3	12					
		ANALYSIS OF CONTINUOUS TIME SIGNALS	ii i						
	7	Fourier series analysis	2	14					
	8	Spectrum of Continuous Time signals	1	15					
	9	Fourier Transform in Continuous Time Signal Analysis	1	16	T1 &				
2	10	18	R2						
	11	11 Laplace Transform in Continuous Time Signal Analysis		19					
	12	Properties of Laplace Transform	2	21					
	13	Tutorial	3	24					
	LIN								
	14	Differential Equation	2	26					
	15	Block diagram representation-impulse response	2	28					
3	16	convolution integrals	29	T1 &					
	17	Fourier transform in analysis of CT systems	31	R2					
	18	18 Laplace transform in analysis of CT systems 2 33							
	19	Tutorial	3	36					
		ANALYSIS OF DISCRETE TIME SIGNALS							
	20	Baseband Sampling - Aliasing	1	37					
	21	Reconstruction of CT signal from DT signal	1	38					
82	22	DTFT	1	39	T1 &				
4	23	Properties of DTFT	2	41	R2				
	24	Z Transform	2	43	100				
	25	Properties of Z Transform	2	45					
	26	Tutorial	3	48					
	I	INEAR TIME INVARIANT-DISCRETE TIME SYS	TEMS						
	27	Difference Equations	1	49					
	28	Block diagram representation-Impulse response	2	51	1024				
	29	Convolution sum	2	53					
5	30	Discrete Fourier Transform Analysis of Recursive & Non-Recursive systems	2	55	T1 &				
	31	Discrete Fourier and Z Transform Analysis of Recursive & Non- Recursive systems,	2	57	R2				
	32	Tutorial	3	60	1				

TEXT BOOKS:

 Simon Haykins and Barry Van Veen, "Signals and Systems", Second Edition, John Wiley and Sons, Reprint 2012.

REFERENCES:

- 1. B. P. Lathi, "Principles of Linear Systems and Signals", Second Edition, Oxford, 2009.
- R.E.Zeimer, W.H.Tranter and R.D.Fannin, "Signals & Systems Continuous and Discrete", Pearson, 2007.
- M.J.Roberts, "Signals & Systems Analysis using Transform Methods & MATLAB", Tata McGraw Hill, 2007.
- 4. Allan V.Oppenheim, S.Wilsky and S.H.Nawab, "Signals and Systems", Pearson, 2007.
- P.Ramesh Babu and R.Anandanatarajan, "Signals and Systems", Scitech publication, Fourth edition, 2011.



APPROVED BY



P.S.R. ENGINEERING COLLEGE SIVAKASI-626 140

(An Autonomous Institution, Affiliated to Anna University, Chennai)



INTERNAL ASSESSMENT TEST - I

Programme:	B.E.	Branch	Electronics and Communication Engineering							
Acad. Year:	2017-2018	Year/Semester	li Yr/IV Sem							
Course Code:	161EC43	Course Name	Signals and Systems							
Maximum Marks:	60 Marks	Date of Test	19.01.2018 (AN)	Duration	1.30 hrs					
Course Tutor(s):	Section-1: Dr	K.Valarmathi/ECE	Section-2: Mrs.P.Lingeswari /ECE							

Answer All Questions

PART - A

6 x 2 Marks = 12 Marks

- Distinguish between symmetric and Asymmetric signal.
- What is the fundamental period of e¹⁰⁰?
- Find the power and RMS value of signal x(t)=20cos2πt.
- 4. Define LTI system.
- 5. Compare Fourier series and Fourier transform.
- Define the Dirichlet's conditions for continuous time Fourier series.

PART - B

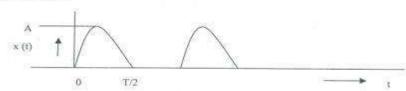
3 x 16 Marks = 48 Marks

16

- 7.a) Distinguish between the following:
 - (i) Continuous time signal and discrete time signal
 - (ii) Unit step and unit ramp function
 - (iii) Periodic and aperiodic signal
 - (iv) Deterministic and random signal

- i) Prove the signal $x(t) = e^{-3t}u(t)$ is an energy signal not the power signal.

 - ii) Solve the fundamental period of the signal $e^{i(\frac{2\pi}{3})w} + e^{i(\frac{3\pi}{4})a}$. iii) Outline the signal r(t) - u(2-t).
 - iv) Find the even and odd components of the signal $x(t) = \cos t + \sin t + \cos t \sin t$.
- 8.a) Classify the following systems under their linearity, time invariance, casual, stability. 16 (1) $y(n) = x(n)\cos\omega n$ (2) y(n) = 0.25x(n-1)
- b) Elaborate the classification of system with examples.
- 9.a) Construct the Trigonometric Fourier series representation of the half wave rectifier output 16 as shown in figure.



- b) i) Determine the Fourier transform and sketch the magnitude and phase spectrum for the signal $x(t) = e^{-0.5t}u(t)$.
 - ii) Summarize the properties of Fourier transform.

--- End of Questions ----



HOD/ECE



P.S.R. ENGINEERING COLLEGE SIVAKASI-626 140 (An Autonomous Institution, Affiliated to Anna University, Chennai)



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING MODERATION OF QUESTION PAPER

to the same of the	70.5	Intern	al Assessment	I							
Programme;	B.E. Branch Electronics and Communication Engineering										
Acad Year:	2016-2017	Year/Semester									
Course Code:	161EC43	100 100 100 100 100 100 100 100 100 100	the state of the s	And the American Control of the Cont							
Maximum Marks:	60	Date of Test	19-01-2018	Duration							
Course Tutor(s):	LingeswariPon	Programme									

Qn.		Co	mpetence Cat	egory	Consideration to the Section		- 4	el		
No.	Remembering(RM)	Understanding(US)	Applying(AP)	Analysis(AY	Evaluating(EV)	Creating(CR)	Easy		Challenge	COs
1				2				1		CO1
2	2						1			C01
3	2						1			C02
4	2						1			C01
5		2:2:					1			CO3
6	2						1			CO3
7.a.i				16			1			CO1
7.b.i			8						/	C02
7.b.ii		В					1		-	CO1
8.a.i				16			-	1		COI
8.b.i		16		1580			1	~	-	-
9.a.i						16		-		CO1
9.b.i					8	(838)		-		CO3
9.b.ii		8			.0.			1		CO3
Total	8	34	. 8	34	- 8	16	1			C03
%	7.41	31.48	7.41	31.48	7.41	14.81	58	26 24.07	22.22	

Desirable: a+b=30% to 40%,c+d+e+f = 60% to 70% E-Easy(50.00%),M-Medium(25.00%),C-Challenge(25.00%)

Remarks

Signature of course Coordinator/Moderator

Head of the Department



[An Autonomous Institution, Affiliated to Anna University, Chennai] P.S.R.ENGINEERING COLLEGE, SIVAKASI-626140



Evaluation Analysis

Programme: B.E Electronics and Communication Engineering (ECE)

Course Code: 161EC43

Course Tutor: Lingeswari Ponnusamy, Assistant Professor/Electronics: Date of Test: 19-01-2018

Internal Assessment Test: I Section: B

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RAMESH	16EC067 PRIYADHARSHINI	16EC066 PREMAKARTHIKA	6EC065 PRABAKAR	6EC064 PAVITHRA DARWIN	16EC063 PATHMA PRIYA	16EC062 PARTHASARATHI	16EC061 PANDEESWARAN	16EC060 NAVANEETHA VENKATESAN	16EC059 NAGARAJ	16EC056 MUTHUMANI	16EC054 MUTHUKUMAR	16EC053 MURUGAN	WONIKA	16EC051 MARUNMANI	16EC050 MARIRAJ	16EC049 MARJAMMAL	16EC048 MANIMEGALAI	Name	
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CO1 CO2 CO3 CO3 CO3 CO1 CO1 CO1 CO2 CO3 CO3	Competence Category	AY	RM	RM	RM	US	RM	ΑÝ	AP	US	AY	US	CR	EV	US
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PO2	Programme Outcome	POI	POI	POI	POI	POI		POI	POI	PO1	POI	POI		POI	POI
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				PO8					PO8						
				PO12					PO12						

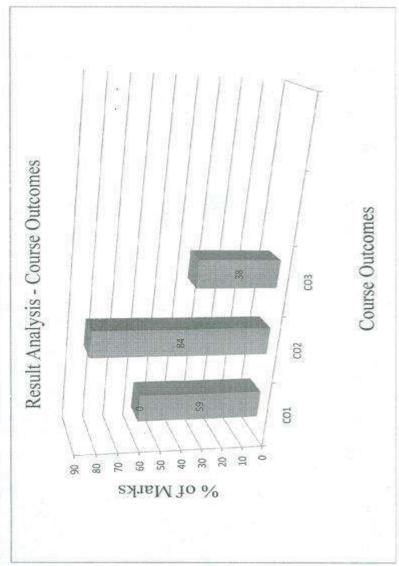
Bead of the Department

Signature of the Course Co-ordinator/Moderator

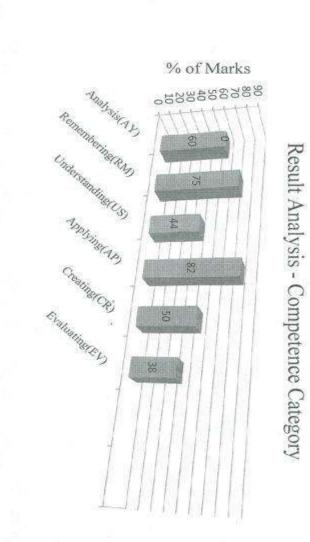
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- 99

Course Outcomes	Max Marks	Average Marks Scored	% of Marks
CO1	62	36.71	59
CO2	10	8.42	84
CO3	36	13.82	38



Competence Category	Max Marks	Average Marks Scored	% of Marks
	34	20.47	60
Remembering(RM)	00	5.99	75
Understanding(US)	34	14.91	44
Applying(AP)	000	6.53	82
Creating(CR)	.16	8.05	50
Evaluating(EV)	000	w	38



Competence Category





	% of Marks
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	01 90
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Programme Outcomes	24 25 25 25 25 25 25 25 25 25 25 25 25 25
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NPTEL QUESTIONS

Assignment 1

I.T	he image captured by a ce					
0	Discrete Time Signal	2D Signal	Energy Signal	All of the Abo	ve	
2.C	onsider the Signal sin(4t)	.Which of the	following is true			
C	The given Signal is aperi	odic	and the contraction of the contraction of the con-			
0	The given Signal is finite		1	08		
C	The given Signal is Ever					
C						
3.C	Consider the Signal sin(4π))+sin(6πt). The	e Signal is			
	Aperiodic Periodic v			period 1 Perio	odic with period	2
4. T	the Signal $\exp(-\frac{1}{2} t)$					
	Power Signal with powe	-2 C D	Cincal original			
	Energy Signal with power					
	he unit step signal is an Energy Signal Powe	r Signal N	either Energy Nor	Power Perio	dic Signal	
6.C	'urrent $i(t) = e^{-\alpha t}u(t), \alpha >$	0 is given as	input to capacitor	with capacitance	C. The resulting	
vol	tage across the capacitor i	S		œi .		
C	$\frac{1}{c\alpha}(1-e^{-\omega})u(t) \stackrel{\frown}{=} \frac{1}{c}(e^{-\omega})u(t)$	$(xe^{-\omega})u(t)$	$-c(\alpha e^{-\alpha t})u(t)$	$\frac{1}{c}(e^{-itt})u(t)$		
	ca c			e		
7.1	the Signal $\delta(-2t)$ equals					
0	$\delta(t/2)$ (1/2) $\delta(t)$ ($1/2)\delta(t)$ -2	$\delta(t)$			
8. T	he sifting property of the	impulse functi	on states that			
C	$\int_{-\infty}^{\infty} x(t)\delta(t)dt = x(0)$	$x(t)\delta(t) = x$	(0)\delta(0)			
0	$\int_{-\infty}^{\infty} x(\tau) \delta(t-\tau) d\tau = x(t)$	$C \int_{-\infty}^{\infty} x(t)\delta(t)$	$(t - t_0)dt = x(t_0)$			
	Given the general signal $x(t) = x_e(t) + x_0(t)$, are	t), the even an	d odd components	of signal $x_c(t)$, x	o(t) such that	
0	(1/2)[x(t)-x(-t)],(1/2)[x(t)-x(-t)]	t)+x(-t)	(1/2)[x(t)+x(-t)],	(1/2)[x(t)-x(-t)]		
0	(1/2)[y(-t)-y(t)](1/2)[y(-t)-y(t)]	100		(1/2)[y(-t)-y(t)]		

10. Consider the Signal $x(t)=\sin(t)u(t)$ given as input to integrator $\int x(\tau)d\tau$. What is the power

0 1 0 30 0 10 0 3

of resulting output signal



P.S.R.ENGINEERING COLLEGE, SIVAKASI-626140 [An Autonomous Institution, Affiliated to Anna University, Chennai]



Programme: B.E. Electronics and Communcation Engineering

Year & Sem: II & IV

Course Code & Name: 161EC43 & Signals and Systems

Course Tutor: Mrs.P.Lingeswari, AP/ECE

Internal Assessment Test:1

Section: II

Date of Test: 19.01.2018

SLOW LEARNERS LIST

S.No	Roll No	Name of the Student	Marks
1	16EC050	MARIRAJ	21
2	16EC053	MURUGAN	19
3	16EC056	MUTHUMANI	15
4	16EC061	PANDEESWARAN	21
5	16EC070	SAKTHI PANDI	11
6	16EC074	SARAVANA KUMAR	19
7	16EC078	SELVA KUMAR	5
8	16EC076	SELVA KUMAR	10
9	16EC080	SOUNDHARA KUMAR	22
10	16EC081	SRIDHARAN	16
11	16EC084	SURESH KANNAN	18
12	16EC086	SURYA PRAKASH	2
13	16EC090	THIRUMALAIMURUGAN	21
14	17LEC01	BHUVANESHWARI K	21
15	17LEC03	ESAKKIAMMAL@ RACHANADEVI R	21
16	17LEC06	MUTHUKANI S	14
17	17LEC07	MUTHUMANIPANDI M	14
18 .	17LEC11	PREETHI K	23
19	17LEC13	RATHIKA R	16
20	17LEC14	RUPADEVI P	16

Assignments given to the students.

ADVANCE LEARNERS LIST

S.No	Roll No	Name of the Student	Marks
1	16EC062	PARTHASARATHI	52
2	16EC066	PREMAKARTHIKA	46
3	16EC083	SUNDARA LAKSHMI	53
4	16EC087	SURYA	45
5	17TEC01	PUSHPAPRIYA N	46

Asked to solve NPTEL questions.

Signature or procourse Tutor

Programme-Co-ordinator

Signature of the Course Co-ordinator/Moderator

Desidument I

Solution

- The image captured by a cellphone is a Discrete time signal, 2D signal as well as n
 energy Energy signal (since it is of finite size and each pixel has finite amplitude).
- The given signal sin(4t) is periodic. In fact, its period is π/2.
 Ans d
- Consider the signal sin(4π) + sin(6π). Period of first component is ½. Period of second component is 1/3. The lowest common multiple of both is 1. Hence, period of sum signal is 1.
 Ans c
- 4. The given signal $e^{-\frac{1}{2}|\epsilon|}$ is an energy signal. Its energy is

$$\int_{-\infty}^{\infty} \left(e^{-\frac{1}{2}|t|} \right)^{2} dt = 2 \int_{0}^{\infty} e^{-t} dt = 2$$

Ans c

5. The unit step signal is a Power signal. This can be seen as follows

$$\lim_{T \to \infty} \frac{1}{T} \int_{-T/2}^{T/2} |u(t)|^2 dt = \lim_{T \to \infty} \frac{1}{T} \int_{0}^{T/2} 1 \times dt = \lim_{T \to \infty} \frac{T/2}{T} = \frac{1}{2}$$

Ans b

 Given current i(t) = e^{-ω}u(t), α > 0 is given as input to capacitor with capacitance C. The voltage across the capacitor is given as

$$\begin{split} \frac{1}{C} \int\limits_{-\infty}^{t} i(\tau) d\tau &= \frac{1}{C} \int\limits_{-\infty}^{t} e^{-\alpha \tau} u(\tau) d\tau = \left(\frac{1}{C} \int\limits_{0}^{t} e^{-\alpha \tau} d\tau \right) u(t) = -\frac{1}{C\alpha} e^{-\alpha \tau} |_{0}^{t} u(t) \\ &= \frac{1}{C\alpha} (1 - e^{-\alpha \tau}) u(t) \end{split}$$

Ans a

- 7. From the property $\delta(at) = 1/|\mathbf{a}| \times \delta(t)$. Hence, $\delta(-2t) = \frac{1}{2} \times \delta(t)$. Ans b
- 8. The sifting property of the impulse function is $\int_{-\infty}^{\infty} x(\tau) \delta(t-\tau) d\tau = x(t)$.

Ans c

Ans b

The even and odd components of the signal x_c(t), x_o(t) are respectively ½ (x(t) + x(-t)), ½ (x(t) - x(-t)).

10. Given the signal $x(t) = \sin(t)u(t)$ given as input to the integrator $\int_{-\infty}^{\infty} x(\tau)d\tau$. The output of the integrator is $(1-\cos(t))u(t)$. Power of $1-\cos(t)$ is $1+\frac{1}{2}=\frac{3}{2}$. The power of $(1-\cos(t))u(t)$ is $\frac{1}{2}\times\frac{3}{2}=\frac{3}{4}$. Ans d

- 11

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P.S.R. ENGINEERING COLLEGE SIVAKASI-626 140 (An Autonomous Institution, Affiliated to Anna University, Chennai)



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING MODERATION OF QUESTION PAPER

		Intern	al Assessment I	I
Programme:	B.E.	Branch	Electronics and Con	munication Engineering
Acad Year:	2016-2017	Year/Semester	IIYr/IVSem	
Course Code:	161EC43	Course Name	Signals and System	tis
Maximum Marks:	60	Date of Test	02-03-2018	Duration
Course Tutor(s):	LingeswartPon	nusamy/Electronics	and Communication 1	Ingineering

Qn. No.		Co	mpetence Cat	egory				On Lev	el		7
No.	Remembering(RM)	Understanding(US)	Applying(AP)	Analysis(AY)	Evaluating(EV)	Creating(CR)	Easy	Mediam	Challenge	COs	
1	2			1-500-	131	2011	1		- 65	CO3	
2	2						1			CO3	٦
3		2					1			CO4	٦
4	2						1			C03	
5	2						1			C04	
6	2	-					1			003	
7.a.i					16			1		CO3	
7.b.i					8				1	CO3	
7.b.ii			8					1		C03	1
8.a.1			-8				V			C03	
8.a.ti				8			1			C04	
8.b.i		0 1			8		1			CO4	7
8.b.ii	8						1			C04	٦
9.a.i	16		1(0)				1			C04	٦
9.b.i						8			1	C04	1
9.b.ii						- 8			1	C04	٦
Total	34	2	16	- 8	32	16	60	24	24		
%	31.48	1.85	14.81	7.41	29.63	14.81	55.56	22.22	22.22		

Desirable: a+b=30% to 40%,c+d+e+f=60% to 70%E-Easy(50.00%),M-Medium(25.00%),C-Challenge(25.00%)

Remarks

Signature of course Coordinator/Moderator



P.S.R. ENGINEERING COLLEGE SIVAKASI-626 140

(An Autonomous Institution, Affiliated to Anna University, Chennai)



INTERNAL ASSESSMENT TEST - H

Programme:	B.E.	Branch	Electronics	and Communica	ation Engineering
Acad. Year:	2017-2018	Year/Semester		II Yr/IV Ser	
Course Code:	161EC43	Course Name		Signals and Sy	stems
Maximum Marks:	60 Marks	Date of Test	02.03.2018 (AN)	Duration	1.30 hrs
Course Tutor(s):	Section-1: Dr	.K.Valarmathi/ECE	Section	n-2: Mrs.P.Ling	eswari /FCF

Answer All Questions

PART - A

6 x 2 Mark = 12 Marks

- Define initial and final value theorem of Laplace transform.
- Find the Laplace transform of unit step function.
- Compare natural response and forced response.
- Define ROC.
- List the properties of convolution integral.
- Find the final value $x(\infty)$, given that $X(s) = \frac{s+5}{s+3}$.

PART - B

3 x 16 Mark = 48 Marks

16

8

8

8

- 7.a) Evaluate the Laplace transform for the following signals: (ii) $x(t) = \begin{cases} \sin \pi t; 0 \le t \le 1 \\ 0; \text{otherwise} \end{cases}$ (iv) $x(t) = \delta(t) - \frac{1}{5}e^{-5t}u(t)$ (i) $x(t) = e^{-2t} \sin t u(t)$
 - (iii) $x(t) = t^2 e^{-t} u(t)$
 - b) i) Prove any two properties of Laplace Transform.

ii) Develop the inverse Laplace Transform of $X(s) = \frac{(s+2)}{s^3 + 7s^2 + 15s + 9}$

- i) Solve the inverse Laplace Transform of $X(s) = \frac{2(s+2)}{s^2 + 7s + 12}$; Re(s) > -3. 118
 - ii) Analyze the output of the system which having the impulse response and the input to the system 8 is given as x(t) = u(t+1) and h(t)=u(t-2).
 - i) Determine the impulse response of the continuous time system described by the differential equation $\frac{d^2y(t)}{dt^2} + 4\frac{dy(t)}{dt} + 3y(t) = \frac{dx(t)}{dt} + 2x(t).$
 - ii) Find the impulse response of causal system described by $H(s) = \frac{(s+3)}{s^2 + 4s + 3}$
- Consider the system characterized equation $x(t) = \frac{d^3y(t)}{dt^3} + 6\frac{d^3y(t)}{dt^2} + 11\frac{dy(t)}{dt} + 6y(t)$. 9.a) Consider characterized differential
 - (i) Find the zero state response of the system for the input $x(t) = e^{-4t}u(t)$.
 - (ii)Determine the zero input response of the system given that y(0)=1; $\frac{dy(t)}{dt}\Big|_{t=0} = -1; \frac{d^2y(t)}{dt^2}\Big|_{t=0} = 1.$
- i) Construct direct form I and II for the given LTI system $\frac{d^2y(t)}{dt^2} + 5\frac{dy(t)}{dt} + 4y(t) = \frac{dx(t)}{dt}$
 - ii) Construct cascade and parallel form of $H(s) = \frac{1}{(s+1)(s+2)}$.







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Evaluation Analysis

Programme: B.E Electronics and Communication Engineering (ECE)

Year: II

Course Code: 161EC43 Course Tutor: Lingeswari Ponnusamy, Assistant Professor/Electronics and Communication Engineering

Internal Assessment Test: II

Course Name: Signals and Systems Section: B

Date of Test: 02-03-2018

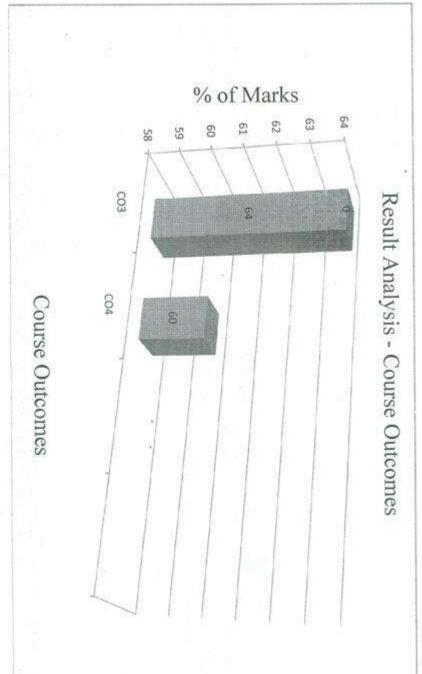
Total Result		40 PASS	47 PASS	8 FAIL	16 FAIL	33 PASS	8 FAIL	49 PASS	32 PASS	31 PASS	30 PASS	31 PASS	55 PASS	41 PASS	40 PASS	42 PASS	47 PASS	40 PASS	37 PASS	ABSENT	ABSENT
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Total Marks Questionwise	\$	99	18	35 3	9	2 2	228 83	58	142	82	104	100	161	Ξ	103		
No of Students Attended	36	29	15	23 2	36 3	30 2	23 23	91 9	22	16	19	20	17	26	25		
Total Marks / No.of Students	1.78	1.93	1.2	1.5 1.	.38 1.	.73 9.	9.9 3.0	3.6 3.6	6.45	5.3	5.5	100	9.5	4.3	4.12		
Competence Category	RM	RM	US	RM R	RM R	RM E	EV EV	EV AP	AP	AY	EV	RM	RM	C	CR		
Course Outcome	03	003	2040	03 00	74 C	33 0	3300	CO3CO3	3003	50	02	50	C04	8	C04		
Programme Outcome	POI	POI	POIL	PO1 PO1		PO1 PC	POT POT POT	I PO	PO	POI	POI	POI	POI	POI	POI		
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	POS	PO3	PO3 P	PO3 PC)3 P(33 PC	PO3 PO3 PO3	3 PO.	3 PO3	PO3	P03	P03 1	P03	P03	PO3		
	PO4	PO4	PO4 PO4		PO4 PC	74 PC	34PO	4 PO.	PO4	P04	P04	P04	P04	P04	PO4		

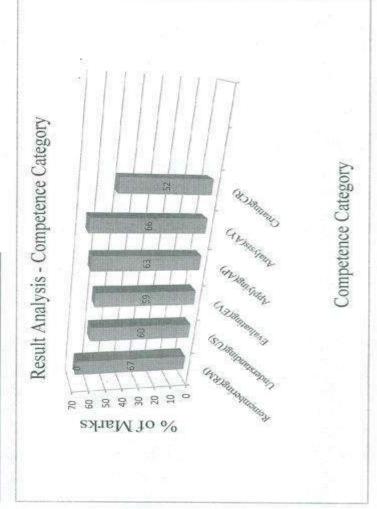
Signature of the Course Tutor Signature of the Course Co-ordinator/Moderator Programmo

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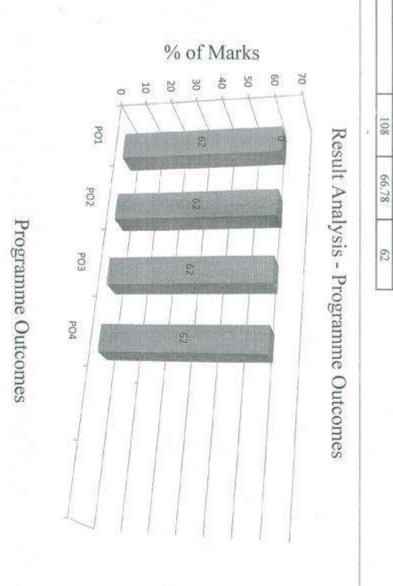


Course Outcomes	May Marks	Average Marks Scored	% of Marks
CO3	48	30.56	64
CO4	60	36.22	60

Competence	Max Marks	Average Marks Scored	% of Marks
temembering(RM)	34	22.81	29
Inderstanding(US)	2	1.2	09
(valuating(EV)	32	18.99	59
Applying(AP)	91	10.08	69
vnalysis(AY)	000	5.31	99
Creating(CR)	16	8.39	52



PO1 Programme Outcomes Max Marks Marks 108 108 66.78 66.78 66.78 66.78 % of Marks 8888



Assignment I

- The property T(x₁(t) + x₂(t)) = y₁(t) + y₂(t) is termed Additivity Ans a
- 2. Given the system $y(t) = 2\frac{dx(t)}{dt} + 3\frac{d^2x(t)}{dt^2}$. The system is LTI since the differentiator is an LTI system.
- Given y(t) = 2 dx(t)/dt + 3 d2x(t)/dt². Consider the input x(t) = u(t), the unit-step signal. The input is bounded since |x(t)| ≤ 1. However, the output is unbounded at t = 0. Hence system is NOT BIBO stable.
 Ans b
- 4. Given the signal x(t) = -t for -1 ≤ t ≤ 0 and 0 otherwise. The signal -x(2-t) = -(-(2-t)) = 2-t for -1 ≤ 2-t ≤ 0 ⇒ 2 ≤ t ≤ 3. Hence, it is non-zero in the interval (2,3]. In this interval it can be seen to take -ve values and have a -ve slope. Ans d
- 5. Using the property $\int_{-\infty}^{\infty} \phi(t) \delta'(t) dt = -\phi'(0)$, it follows that

$$\int_{-\infty}^{\infty} \frac{1}{\sqrt{2\pi\sigma^2}} e^{-\frac{t^2}{2\sigma^2}} \delta'(t) dt = \frac{d}{dt} \frac{1}{\sqrt{2\pi\sigma^2}} e^{-\frac{t^2}{2\sigma^2}} \bigg|_{t=0} = -\frac{t}{\sigma^2} \times \frac{1}{\sqrt{2\pi\sigma^2}} e^{-\frac{t^2}{2\sigma^2}} \bigg|_{t=0} = 0$$

Ans a

Ans c

 Given v_i(t) applied across a series RL circuit with the voltage v_o(t) across the inductor, the input output relation can be derived as follows

$$i(t) = \frac{\left(v_i(t) - v_o(t)\right)}{R} \Rightarrow L\frac{d}{dt}\frac{\left(v_i(t) - v_o(t)\right)}{R} = v_o(t)$$

$$\Rightarrow \frac{L}{R}\frac{d}{dt}v_i(t) = v_o(t) + \frac{L}{R}\frac{d}{dt}v_o(t)$$

- 7. Given complex exponential signal $\exp(j6\pi t/13)$ sampled with sampling interval $T_s = 1/3\pi$. The sampled signal is $x(n) = e(j6\pi t/13 \times n/3\pi) = \exp(j2n/13)$. Let period be N. $\exp(j2(n+N)/13) = \exp(j2n/13)$ if $2N/13 = 2K\pi \Rightarrow N/K = 13\pi$. Since π is not rational, there do not exist N, K satisfying above relation. Hence the signal is aperiodic Ans b
- 8. The output can be calculated as follows. For $t \ge 0$, output z(t) is

$$z(t) = \int_{-\infty}^{\infty} e^{-a\tau} u(\tau) e^{b(t-\tau)} u(\tau - t) d\tau = e^{bt} \int_{t}^{\infty} e^{-(a+b)\tau} d\tau = e^{bt} \times \frac{e^{-(a+b)t}}{a+b} = \frac{e^{-at}}{a+b}$$
 For $t < 0$, output $z(t)$ is

$$z(t) = \int_{-\infty}^{\infty} e^{-a\tau} u(\tau) e^{b(t-\tau)} u(\tau-t) d\tau = e^{bt} \int_{0}^{\infty} e^{-(a+b)\tau} d\tau = e^{bt} \times \frac{1}{a+b} = \frac{e^{bt}}{a+b}$$

NPTEL ASSIGNMENT

Assignment-2

1. Consider a system represented by T(.). For any input signals $x_1(t)$, $x_2(t)$ such that $T(x_1(t))=y_1(t)$ and $T(x_2(t))=y_2(t)$, the system satisfies the property $T(x_1(t)+x_2(t))=y_1(t)+y_2(t)$. This property is termed as

Additivity Homogenity Time-variance None of these

2. Consider the output y(t) of a system for a given input signal x(t) described as $y(t) = 2\frac{dx}{dt} + 3\frac{d^2x}{dt^2}$. The system is

Linear only Time-Invariant only LTI None of these

3. Consider the output y(t) of a system for a given input signal x(t) described as $y(t) = 2\frac{dx}{dt} + 3\frac{d^2x}{dt^2}$. The system is

BIBO stable Not BIBO stable Depends on the input signal None of these

4. Consider the signal x(t) = -t for and $-1 \le t \le 0$ and 0 otherwise. The signal -x(2-t), in the interval it is non-zero, has

value >0 and +ve slope value <0 and +ve slope

value>0 and -ve slope value <0 and -ve slope

5. The integral $\int_{-\infty}^{+\infty} \frac{1}{\sqrt{2\pi\sigma}} e^{\frac{-t^2}{2\sigma^2}} \delta^*(t) dt$ evaluates to

c = 0 $c = e^{\frac{-t^2}{2\sigma^2}}$ $c = -\frac{1}{\sigma^2 \sqrt{2\pi}}$ $c = \frac{1}{\sqrt{2\pi\sigma^2}}e^{\frac{-t^2}{2\sigma^2}}$

6. Consider input voltage $v_i(t)$ applied across a series RL circuit with the voltage $v_o(t)$ across the inductor being the output voltage. The input-output relation of the system is

 $\nabla v_i(t) = \frac{L}{R} \frac{dv_0(t)}{dt} + v_0(t) \qquad \qquad \nabla \frac{L}{R} \frac{dv_i(t)}{dt} + v_i(t) = v_0(t)$

 $C \frac{dv_i(t)}{dt} = \frac{R}{L} \frac{dv_0(t)}{dt} + v_0(t) \qquad C \frac{L}{R} \frac{dv_i(t)}{dt} = \frac{L}{R} \frac{dv_0(t)}{dt} + v_0(t)$

7. Consider the complex exponential signal $e^{\sqrt{\frac{6\pi}{13}}t}$ sampled with sampling interval $Ts=1/(3\pi)$. The resulting signal is

- Periodic with period n = 13 Aperio
- Periodic with period n = 6 Periodic with period n = 2

8. Let $x(t) = e^{-at} u(t)$ and $y(t) = e^{-bt} u(t)$, a, b > 0 and $a \ne b$, x(t) * y(-t), where * denotes convolution is

$$C = \frac{e^{-at}}{a+b} - \frac{e^{-bt}}{a+b} \qquad C = \frac{e^{-(a+b)t}}{a+b} u(t) + \frac{e^{(a+b)t}}{a+b} u(-t)$$

$$\begin{array}{ccc}
& & \frac{e^{-iat}}{a+b}u(t) + \frac{e^{iat}}{a+b}u(-t) & & & & \\
& & & \frac{e^{iat}}{a+b}u(-t) + \frac{e^{-bt}}{a+b}u(t)
\end{array}$$

9. The modulator, which modulates the baseband signal x(t) with a carrier at frequency f_c , has which of the following properties

- i. Linearity
- ii. Causality
- iii. BIBO Stability

Only i and ii Only ii and iii Only i and iii

10. The sifting property of the discrete time impulse is

$$\sum_{n=-\infty}^{\infty} x(k)\delta(n-k) = x(n) \qquad (x(n)\delta(n) = x(0)\delta(n)$$

11

7.5

P.S.R.ENGINEERING COLLEGE, SIVAKASI-626140

[An Autonomous Institution, Affiliated to Anna University, Chennai]



Programme: B.E. Electronics and Communcation Engineering

Year & Sem: II & IV

Course Code & Name: 161EC43 & Signals and Systems

Course Tutor: Mrs.P.Lingeswari, AP/ECE

Internal Assessment Test :II

Section: II

Date of Test: 02.03.2018

SLOW LEARNERS LIST

S.No	Roll No	Name of the Student	Marks
1	16EC050	MARIRAJ	18
2	16EC051	MARUNMANI	16
3	16EC053	MURUGAN	18
4	16EC074	SARAVANA KUMAR	18
5	16EC076	SELVA KUMAR	4
6	16EC081	SRIDHARAN	6
7	16EC084	SURESH KANNAN	17
8	16EC086	SURYA PRAKASH	12
9	16EC090	THIRUMALAIMURUGAN	18
10	16EC091	UMAMAHESWARI	14
11	16EC095	YATHEENDIRARAJAN	13
12	17LEC01	BHUVANESHWARI K	19
13	17LEC03	ESAKKIAMMAL@ RACHANADEVI R	13
14	17LEC06	MUTHUKANI S	4
1.5	17LEC07	MUTHUMANIPANDI M	12
16	17LEC11	PREETHI K	10
17	17LEC13	RATHIKA R	12
18	17LEC14	RUPADEVI P	8

Assignments given to the students.

ADVANCE LEARNERS LIST

S.No	Roll No	Name of the Student	Marks
1	16EC049	MARIAMMAL	47
2	16EC054	MUTHUKUMAR	49
3	16EC062	PARTHASARATHI	55
4	16EC066	PREMAKARTHIKA	47
5	16EC072	SANTHINE	49
6	16EC083	SUNDARA LAKSHMI	46
7 -	16EC085	SURIYA PRIYA	56

Asked to solve gate questions

Signature of the Course Tutor

Programme Co-ordinate

Signature of the Course Co-ordinator/Modera



P.S.R. ENGINEERING COLLEGE SIVAKASI-626 140

(An Autonomous Institution, Affiliated to Anna University, Chennai)



TUTORIAL NO.2

		v-co-		
Programme:	B.E.	Branch	Electronics and Communica	tion Engineering
Acad. Year:	2017-2018	Year/Semester	II Yr/ IV Sei	m
Course Code:	161EC43	Course Name	SIGNALS AND SY	STEMS
Section:	11	Date of Tutorial	Duration	50 min
Course Tutors:	Mrs.P.Lingesy	vari AP/ECE	A	

CLASSIFICATION OF SIGNALS

Answer the following Problems/Questions

For a periodic signal $v(t) = 30 \sin 100t + 10 \cos 300t + 6 \sin (500t + \frac{\pi}{4})$, the fundamental a) 100 b) 300 c) 500 d) 1500 [GATE 2013]

2. Find whether the signal $x(t) = 2\cos(10t + 1) - \sin(4t - 1)$ is periodic or not. [APRIL/MAY 2010]

Find the fundamental period T of the continuous time signal $x(t) = 20\cos(10\pi t + \frac{\pi}{6})$. [APRIL/MAY 2010]

The discrete-time signal $x(n) = (-1)^n$ is periodic with fundamental period a) 6 b) 4 c) 2

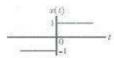
Determine the power and RMS value of the following signals

(i) $x_1(t) = 5\cos(50t + \frac{\pi}{3})$

(ii) $x_1(t) = 10\cos 5t\cos 10t$.

[NOV/DEC 2009]

The function x(t) is shown in the figure. Even and odd parts of a unit step function u(t) are respectively,



a) $\frac{1}{2}$, $\frac{1}{2}x(t)$ b) $-\frac{1}{2}$, $\frac{1}{2}x(t)$ c) $\frac{1}{2}$, $-\frac{1}{2}x(t)$ d) $-\frac{1}{2}$, $-\frac{1}{2}x(t)$

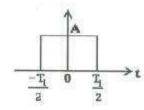
[GATE 2013]

The power in the signal $s(t) = 8\cos(20\pi - \frac{\pi}{2}) + 4\sin(15\pi t)$ is a) 40 b) 41 c) 42 d) 82

IGATE 20051

If a signal f(t) has energy E, the energy of the signal f(2t) is equal to
a) 1 b) E/2 c) 2E d) 4E

- 9. The period of the signal $x(t) = 10\sin 12m + 4\cos 18m$ is
 - a) $\frac{\pi}{4}$ b) $\frac{1}{6}$ c) $\frac{1}{9}$ d) $\frac{1}{3}$
- 10. The average power of the following signal is



- a) $\frac{A^2}{2}$ b) A^2
- c) AT_1^2 d) A^2T_1
- 11. Check whether the given signals are energy or power signal.
 - (i) $x(n) = (\frac{1}{2})^n u(n)$
 - (ii) $rect(\frac{t}{T_0})$
 - (iii) $x(t) = \cos^2(\omega_0 t)$



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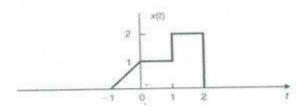
TUTORIAL NO.1

Programme:	B.E.	Branch	Electronics and Communica	tion Engineering
Acad. Year:	2017-2018	Year/Semester	II Yr/ IV Se	MARK TO THE PARTY OF THE PARTY
Course Code:	161EC43	Course Name	SIGNALS AND SY	500000000000000000000000000000000000000
Section:	II	Date of Tutorial	Duration	50 min
Carrest Total	Mrs D Lingues	vari AP/ECE		

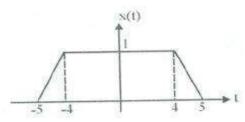
BASIC OPERATION ON SIGNALS

Answer the following Problems/Questions

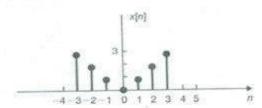
1. A continuous-time signal x(t) is shown in below. Sketch and label each of the following signals. (a) x(t)u(1-t); (b) x(t)[u(t)-u(t-1)]; (c) $x(t)\delta(t-\frac{3}{2})$



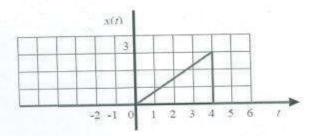
2. The signal x(t) is shown in figure. Sketch y(t)=x(10t-5).



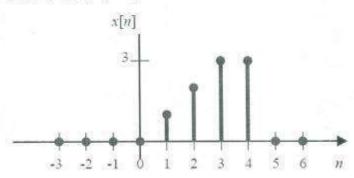
A discrete-time signal x[n] is shown in Fig. 1-29. Sketch and label each of the following signals.
 (a) x[n]u[1 - n]; (b)x[n]{u[n + 2] - u[n]}; (c) x(n)δ(n-1)



A continuous-time signal x(t) is shown below. Sketch and label each of the following signals.
 x(t-2); (b). x(2t); (c). x(t/2); (d). x(-t); (e). x(2t-2).

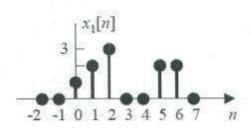


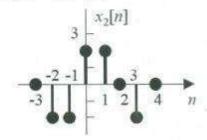
5. A discrete signal x[n] is shown below. Sketch and label each of the following signals. (a). x[n-2]; (b). x[2n]; (c). x[-n] (d). x[-n+2].



6. Using the discrete-time signals $x_1[n]$ and $x_2[n]$ shown as follows, represent each of the signals by a graph and by a sequence of numbers.

(a). $y_1[n] = x_1[n] + x_2[n]$; (b). $y_2[n] = 2x_1[n]$; and (c). $y_3[n] = x_1[n] x_2[n]$.







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11

TUTORIAL NO.3

Programme:	B.E.	Branch	Electronics and Communic	ation Engineering	
Acad. Year:	2017-2018	Year/Semester	II Yr/ IV Se	m	
Course Code:	161EC43	Course Name	SIGNALS AND S	SIGNALS AND SYSTEMS	
Section:	- 11	Date of Tutorial	Duration	50 min	
Course Tutors:	Mrs.P.Lingesv	ari AP/ECE		5-500/1050//	

CLASSIFICATION OF SYSTEMS

Answer the following Problems/Questions

check the following system is linear or not.

(i)
$$y(t) = e^{x(t)}$$

(ii)
$$y(n) = x(n-1)$$

2. Determine whether the system is a linear and time invariant.

(i)
$$y = te^x$$

(ii)
$$y(t) = tx(t)$$

(iii)
$$\frac{dy}{dt} + 3ty(t) = t^2x(t)$$

(iv)
$$y(n) = 2x(n) + \frac{1}{x(n-1)}$$

3. Check whether the system is linear, time invariant, causal, static (memoryless) and stable.

(i)
$$y(n) = \log_{10}|x(n)|$$

(ii)
$$y(n) = x(3n+1) + x(n-1)$$

(iii)
$$y(n) = x(2n)$$

(iv)
$$y(n) = x(n) \cos \alpha m$$

(v)
$$y(n) = x(n) + nx(n+1)$$

Let x(t) be the input and y(t) be the output of a continuous time system. Match the system
properties P1, P2 and P3 with system relations R1, R2, R3, R4

R1:
$$y(t) = t2x(t)$$

R2: $y(t) = t \cdot x(t)$

R3:
$$y(t) = x(t)$$

R4: $y(t) = x(t - 5)$

5. The input and output of a continuous time system are respectively denoted by x(t) and y(t). Which of the following descriptions corresponds to a causal system?

a)
$$y(t) = x(t-2) + x(t+4)$$

b)
$$y(t) = (t-4)x(t+1)$$

c)
$$y(t) = (t+4)x(t-1)$$

d)
$$y(t) = (t+5)x(t+5)$$

IGATE 20081

- A system with input x(n) and output y(n) is given as $y(n) = \sin(\frac{5\pi n}{6})x(n)$. The system is
 - a)linear, stable b)non-linear, stable c)linear, unstable d) non-linear, unstable

[GATE 2006]



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING MODERATION OF QUESTION PAPER

		P	re Semester	
Programme:	B.E	Branch	Electronics and Con	nmunication Engineering
Acad.Year:	2017-2018	Year/Semester		
Course Code:	161EC43	Course Name	Signals and System	ons
Maximum Marks:	100	Date of Test	23-03-2018	Duration
Course Tutor(s):	LingeswariPon	nusamy/Electronics	and Communication I	

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6	2						1			CO5
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8	2						1			C05
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15.b.i			8	-			4		117	C06
15.b.ii			100			8	~			CO6
Total	56	18	24	18	56	8	84	48	40	CO6
9%	31.11	10	13.33	10	31.11	4.44	46.67	26.67	48 26.67	

Desirable: a+b=30% to 40%,c+d+e+f = 60% to 70% E-Easy(50.00%),M-Medium(25.00%),C-Challenge(25.00%)

Signature of the Course Tutor

Remarks

Signature of course Coordinator/Moderator

Head of the Department

Programme Coordinator



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PRESEMESTER EXAMINATION

Programme:	B.E.	Branch	Electronics	and Communic	ation Engineering
Acad. Year:	2017-2018	Year/Semester		II Yr/IV Ser	
Course Code:	161EC43	Course Name	2	Signals and Sy	Contract of the Contract of th
Maximum marks:	100 Marks	Date of Test		Duration	3.00 hrs
Course Tutor(s):	Section-1: Dr	.K.Valarmathi/ECE	The state of the s	on-2: Mrs P Line	

Answer All Questions

PART - A

10 x 2 Marks = 20 Marks

- List any two properties of unit impulse function.
- Outline the signal u(t) − u(t − 10).
- Define the Dirichlet's conditions for continuous time Fourier series.
- 4. What is the relationship between Fourier transform and Laplace transform?
- Define convolution integral.
- 6. Find the DTFT of $x(n) \delta(n) + \delta(n-1)$
- 7. What is aliasing and how it is overcome?
- 8. Find the Nyquist rate of the signal $x(t) = \sin 200\pi t \cos 100\pi t$
- Find the z-transform and its associated ROC for x(n) = {1,-1,2,3,4}
- Distinguish between recursive and non recursive systems.

PART - B

5 x 16 Marks = 8 Marks

11.a) i) Find out whether the following signals are periodic or not. If periodic find the 8 fundamental period.

a)
$$x(t) = 4\cos(3\pi t + \frac{\pi}{4}) + 2\cos(4\pi t)$$
 b) $x(n) = \cos(0.1\pi n)$

ii) Prove the signal $x(t) = e^{-3t}u(t)$ is an energy signal not the power signal.

16

8

b) Classify the following systems under their linearity, time invariance, casual, stability

i) $y(n) = \frac{d}{dt}x(t)$ ii) y(n) = x(n) - x(n-1)

12.a) Determine the Fourier series expansion for a periodic ramp signal with unit amplitude and a period T.

b) i) Evaluate the inverse Laplace transform of $X(s) = \frac{8s+10}{(s+1)(s+2)^3}$.

- ii) Determine the inverse Laplace transform of $X(s) = \frac{1-2s^2-14s}{s(s+3)(s+4)}$.
- 13.a) Using Laplace transform find the response of the system described by the equation $\frac{d^2y(t)}{dt^2} + 5\frac{dy(t)}{dt} + 4y(t) = \frac{dx(t)}{dt}$ with initial conditions y(0) = 0; $\frac{dy(t)}{dt}\Big|_{t=0} = 1$ for the input $x(t) = e^{-2t}u(t)$

b) Construct direct form I, II, cascade and parallel form realization structure for the given LTI 16 system $H(s) = \frac{4s + 28}{s^2 + 6s + 5}$.

- 14.a) Explain in detail about sampling theorem and how it is reconstructed for a band limited 16 signal.
- i) Evaluate the inverse Z transform of $X(z) = \frac{z^{-1}}{1 0.25z^{-1} 0.375z^{-2}}$.

For (i) ROC |z| > 0.75 (ii) ROC |z| > 0.5ii) Determine the Z transform of $x(n) = n^2 u(n)$

15.a) Perform convolution to find the response of the systems $h_1(n)$ and $h_2(n)$ for the input sequences $x_1(n)$ and $x_2(n)$ respectively.

i) $x_1(n) = \{1, -1, 2, 3\}$ $h_1(n) = \{1, -2, 3, -1\}$

ii) $x_2(n) = \{1,2,3,2\}$ $h_2(n) = \{1,2,2\}$

- response impulse Solve i) of y(n) + y(n-1) - 2y(n-2) = x(n-1) + 2x(n-2)
 - ii) Design the cascade and parallel form block diagram realization structure for the following system function, $H(z) = \frac{1}{(1 + \frac{1}{2}z^{-1})(1 - \frac{1}{4}z^{-1})}$

End of Questions -

Faculty In charge



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TUTORIAL NO.4

Programme:	B.E.	Branch	Electronics and Communication Engineering									
Acad. Year:	2017-2018	Year/Semester	II Yr/ IV Se	m								
Course Code:	161EC43	Course Name	SIGNALS AND S	SYSTEMS								
Section:	II	Date of Tutorial	Duration	50 min								
Course Tutors:	Mrs.P.Linges	wari AP/ECE	1111									

LAPLACE TRANSFORM AND INVERSE LAPLACE TRANSFORM

Answer the following Problems/Questions

- 1. Find the Laplace transform of $[4e^{-2t}\cos 5t 3e^{-2t}\sin 5t]u(t)$.
- Find the initial and final values of $X(S) = \frac{s+5}{s^2+3s+2}$.
- Find the Laplace transform of $x(t) = t^2 e^{-4t} u(t)$.
- Find the Laplace transform of $x(t) = e^{-at} \cos \omega t u(t)$.
- Find the inverse Laplace transform of $X(S) = \frac{1 + e^{-2s}}{3s^2 + 2s}$. 5.
- Find the inverse Laplace transform of $X(S) = \frac{1}{(s+5)(s-3)}$ for the ROCs.
 - -5 < Re(s) < 3Re(s) > 3
- Determine the inverse Laplace transform of $X(S) = \frac{2(s+2)}{s^2 + 7s + 12}$ for the ROCs.
 - (i) $Re(s) \ge -3$
- Obtain the inverse Laplace transform of the function $X(S) = \frac{1}{s^2 + 3s + 2}$ for the ROCs.
 - -2 < Re(s) < -1
- Find the Laplace transform of (i) $x(t) = e^{-at}u(t-1)$ (ii) $x(t) = \delta(t) + t^2 + u(t)$.

Hence, the net result is,
$$\frac{e^{-at}}{a+b}u(t) + \frac{e^{bt}}{a+b}u(-t)$$

Ans c

9. The modulator output can be described as $y(t) = x(t)\cos(2\pi f_c t)$. As shown in lectures the system is linear. Further, y(t) depends only on x(t) and not past values of x(t). Hence it is also causal. Further, if |x(t)| < C, $|y(t)| = |x(t)\cos(2\pi f_c t)| \le |x(t)| < C$. Hence, system is also BIBO stable

Ans d

10. The sifting property of the discrete time impulse is $\sum_{k=-\infty}^{\infty} x(k)\delta(n-k) = x(n)$ Ans a



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Evaluation Analysis

Programme : B.E Electronics and Communication Engineering (E($\mbox{Year}: \Pi$

Course Code: 161EC43

Course Tutor: Lingeswari Ponnusamy, Assistant

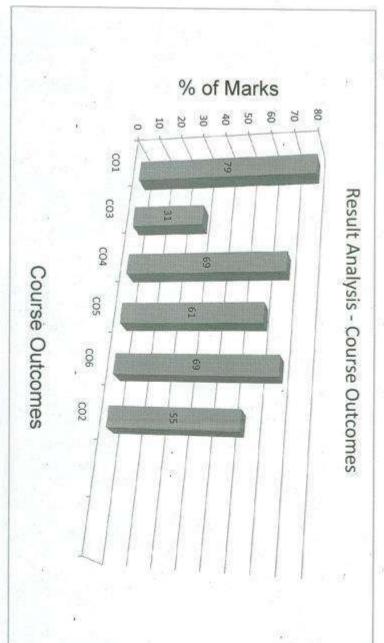
Professor/Electronics and

Section: B Presemester Examination

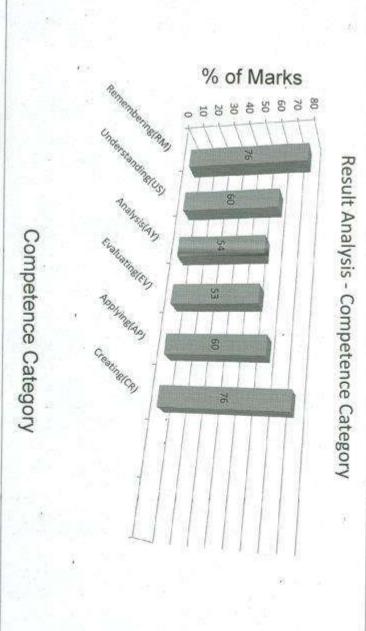
Course Name: Signals and Systems

Date of Test: 23-03-2018

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16	34	40	50	20	20	Max Marks
8.75	23.3	24.47	34.64	6.29	15.71	Average Marks Scored
55	69	61	69	31	79	% of Marks

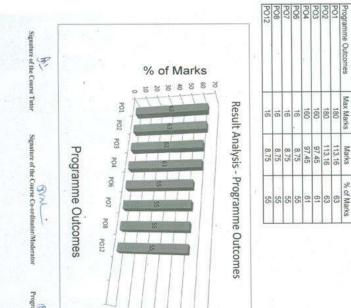


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Signature of the Course Tutor

Signature of the Course Co-ordinator/Moderator

Programme Co-ordinator



Programme Co-ordinator BVAL Head of the Department