

RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University An ISO 9001: 2015 Certified Institution



NAAC Accredited

Department of Mechanical Engineering

Ref.: Department Advisory Committee Meeting/2020-21/Odd Semester/3

Date: 21.11.2020

Minutes of the Meeting of Department Advisory Committee Meeting - III

The 3rd Department Advisory Committee Meeting for the AY 2020 – 21 (Odd Semester) was conducted on 21.11.2020 (Saturday) from 03.30 PM to 5:30PM in Google Meet.

Agenda of the meeting:

- 1. Review of previous Department Advisory Committee Meeting II
- 2. Teaching and Learning Process
- 3. Course Outcomes and Program Outcomes
 - a. Assessment Methods,
 - b. Attainment of Cos, POs, PSOs with program effectiveness
 - c. Action taken for outcome attainment
 - d. Correctiveness and preventiveness
- 4. Students Performance
- 5. Department and Industry Interaction
 - a. MoUs
 - b. Industry projects
 - c. Publication with industry
- 6. Training and Placement Progress with Feedback from Recruiters and Employers
- 7. Alumni Interaction and Contribution
 - a. Feedback received from the Alumni
- 8. Faculty contribution
 - a. Participation
 - b. Publication Conference / Journal / Book Chapter
 - c. Patent & Copy rights
 - d. Research Proposals
- 9. Activity leads to Quality improvements

E 11/20

Form No. AC 11c

Rev.No. 00

Effective Date: 01.07.2020

Page 1 of 11

Members present:

Members present:

- Mr.N.Rajasekaran Dy. General Manager, BHEL, Trichirapalli. (Industry Member)
- Dr.L.Srinivasan Dy. General Manager, VSSC, ISRO (R& D Member)
- Dr.M.Palaninatharaja, Dean P&D TCE – Madurai.
 (Academic Member)
- Mr.P.Esakkiraja, Asst Manager, Ramco Cements Ltd., Alathithur (Alumni Member)
- Mr.K.Aravind Kumar, Asst. Manager, Madasamy Nadar Restaurant (Alumni Member)

Internal Members from RIT

- Dr.S.Rajakarunakaran, Prof & Head / Mech.
- 2. Dr.K.Karthikeyan, ASCP/EEE
- 3. Dr.M.Gomathy Nayagam, ASCP/CSE
- 4. Dr.O.Senthilkumar, ASCP/Chemistry
- 5. Dr.T.Manimaran, ASCP/Maths
- 6. Dr.P.Sureshkumar, ASCP/Mech.
- 7. Dr. V. Sivakumar, ASCP/Mech.

Faculty Members - Dept. of Mech. Engg., RIT

- 1) Dr.S.Godwin Barnabas, ASCP
- 2) Mr.M.Lakshmanan, AP(Sr.Gr.)
- 3) Mr.J.Jerold John Britto, AP(Sr.Gr.)
- 4) Mr.M.Ashok Kumar, AP(Sr.Gr.)
- 5) Mr.C.Gururaj, AP(Sr.Gr.)
- 6) Mr.M.Sivagaminathan alias Balaji, AP(Sr.Gr.)
- 7) Mr.G.Prabu ram, AP(Sr.Gr.)
- 8) Mr.S.Maharajan, AP
- 9) Mr.K.Vigneshwaran, AP
- 10) Mr.T.Selvasundar, AP
- 11) Mr.S. Valai Ganesh, AP
- 12) Mr.J.Jabinth, AP
- 13) Mr.L.Karthikeyan, AP
- 14) Mr.M.Santhana Maruthu Pandian, AP
- 15) Mr.R.Arun Kumar, AP
- 16) Mr.N.L.Sujin, AP
- 17) Mr.R.Prabhakaran, AP
- 18) Mr.R. Venkatesh, AP
- 19) Mr.K.Amudhan, AP
- 20) Mr.M.Ramar, AP
- 21) Mr.P.Pavithran, AP
- 22) Mr.S.Kathiravan, AP

SI. No.	Agenda	Target Date	Points discussed	Responsibility
1.	Review of previous Department Advisory Committee Meeting – II	Completed	Dr.P.Sureshkumar, ASCP/Mech. presented the minutes of second Department Advisory Committee Meeting. The implementation and suggestions given by the advisory committee members in the previous meet was reviewed by the members.	All the NBA Criteria Coordinators and faculty members
2.	Teaching and Learning Process	Continuous	Innovative practices followed in TLP, Curriculum gap identification, content beyond syllabus, students' feedback were summarized by Mr.R.Arun Kumar, AP/Mech. • The list of innovative practices followed with the methods and ICT tools were described.	All the faculty members & Virtual Lab Coordinator

_				
			"Learning Management Systems - Canvas and Google	
		-	Classroom are practiced in the department".	
			• The unique delivery methods in the department is	•
			divided as "active learning, passive learning,	
			collaborative learning, e-learning and feedback based	
			learning"	824
			Presented the method of transparent evaluation	
			using scheme of evaluation, rubrics, online quizzes and	390
			central evaluation.	
		1 5	• Added the attainment level of the students have	
			improved marginally using these practices.	
			• Planned to have a tie-up with IUCEE consortium	
			to improve the TLP".	
			A paper on the impact created through Innovative The state of the state o	
			practices followed is planned to communicate to a	
			journal.	8
			• Explained that learning materials of TLP are	
			made available to public for critic reviews in YouTube and Slide share platforms.	
			 University approved value added courses to 	
			bridge the curriculum gap was presented and the courses	
			are:	
			Smart Materials & Structures	
			Green Energy Technologies and Management	*
			Automation Suite for Smart Systems	
			IoT applications in Mechanical Engineering	
			Surface Coating Technology	
			 Presented how curriculum gap is identified and 	
	-		addressed in individual subjects with two subjects as	
			case studies.	
			 Concluded the presentation with the academic 	
			actions taken on feedback collected from the students	
			through Class Committee Meeting, Course Committee	
			Meeting and feedback form.	
			The virtual laboratory utilization was presented	
			by Mr.J.Jerold John Britto, AP(SG)/Mech.	
			Explained the completed activities and planned	
			activities related to V-labs.	280
			"Tie-up with NIT Warangal in developing a	
			virtual lab is under progress". V-Lab utilization details	
		1	were also presented.	
	Course		Mr. J. Jabinth, AP/Mech. presented the overview of the	
	Outcomes,		assessment methods. CO-PO attainment for 2016-2020	
2	Program		batch calculation was explained to the members.	All the
3.	Outcomes and	Continuous	Course Exit survey is newly included and	faculty
	Program		calculated for both Theory & Practical from	members
*	Specific		2019-20 batch with a weightage of 10%.	
	Form No. AC 11c	<u> </u>	40% weightage for IAT, 60% weightage for Rev.No. 00 Effective Date: 0	1.07.2020
	Torm No. AC 110		A	1.07.2020 age 3 of 11
			(1) 20	800011

6,5 12 20

	Outcomes			
	Outcomes		university contributes to 90% of CO attainment along with 10% weightage from CES. The DAC Members approved the threshold/Target for upcoming semester, which is calculated by taking the maximum value of current, previously set target value in previous academic years. In first year 4 subjects and in Second year 3 subjects did not attain the target value. In Third Year & Final Year all the subjects attained the target value. The Alumni Exit survey & Program exit survey were collected via online mode. The collected survey was given 10% weightage each totaling 20% Weightage. The CO attainment is correlated with mapping to obtain the PO-PSO attainment for each Attributes. The number of subjects mapping the program outcomes were discussed. The program outcomes & Program Specific Outcomes are determined by taking 80% weightage from Subject attainment and 20% Weightage from PES, Alumni surveys.	
4.	Students Performance	Continuous	attainment were discussed by the presenter. Mr. G. Prabu ram, AP(Sr.Gr.)/Mech. presented the following points. • Results attained by the students during 2019-2020 (Odd Semester) − 60.89% (232/381) and Even Semester − 100% (381/381) • 2020-2021 (Odd Semester (excluding IV Year). • The progresses of internship ▶ 49 students in 2019-20 and 13 students in 2020-21 (Virtual Internship) • 9 students have undergone in-plant training • Briefed the student feedback report about Internship/In-plant training, formation of Department Consultative Committee, Rubrics for IPT/Internship review, student presentation and evaluation and suggestions and corrective measures • 223 students' participation in Co-Curricular / Extra-Curricular activities (As on date) • 41 and 38 projects turned out from final year and third year students, respectively.	All the student members, subject handling faculty members and IPT and Internship In-charge

	(36)			
			• Final year student projects consists of 32 In house	7 a
			projects and 09 Industrial projects	
			• Student achievements during 2019-20 and 2020- 21 (as on date)	
			Ref.: https://www.ritrjpm.ac.in/images/mechanical/2019-	
			20.pdf	
			https://www.ritrjpm.ac.in/images/mechanical/IPT-2019-	
			20.pdf	381
			https://www.ritrjpm.ac.in/departments/mechanical-	
			engg/mechanical-engg-awards-and-achievements.php	
			Mr.K.Amuthan, AP/Mech. Shared the following	
			industry interaction activities	
			Listed out the number of MoUs with its validity	
		=	period	
	Danasterant :		Establishment of laboratories through MoUs from	A. 11 - 21
_	Department '		RIT - Harita Centre of Excellence and RIT-	All the
5.	and Industry	Continuous	MEDSBY additive manufacturing centre	faculty members &
	Interaction		 13 students placed through MoU companies 	members &
			 8 Industrial problems based projects 	
			 Involvement of industrial experts in the project 	
			review committee	
			2 publications with industry person.	8
			Mr.M.Lakshmanan, AP(Sr.Gr.)/Mech. explained the	
			following activity during the AY 2019-20.	
			Aptitude Training, Programming Training, Foundamental of core subject. CD % Mackets	
			Fundamental of core subject, GD & Mock Interviews, Continuous skill rack practice,	
	-		quizzes, GATE coaching and class for critical	
			thinking training are given to II, III and IV year	
			students.	
			 Company specific training like TCS NQT, Mock 	A 11 -1
	Training and		GD, Mock Interview for Kaar Tech, Embed UR,	All the
	Placement		Vuram Tech.	students, class
_	Progress with	Continuous	8 Webinars conducted	advisor,
6.	Feedback from	Continuous	 Opportunity from 31 companies has been given 	mentor and
	Recruiters and		to the students, out of which 7 core companies,	Placement
	Employers		16 IT companies, 1 Knowledge process	coordinator
			outsourcing(KPO), 2 sales company, 1 support	
			company and 4 training companies.	
			• 73 students placed in 2019-2020	
			Collective recruiters (Ramco Systems, Ramco Comparts Harita Tachagary LICAL Final Systems)	
			Cements, Harita Techsery, UCAL Fuel Systems,	
			Accurate Steel Forging, TCS, ETHNUS, and Chain System) feedback are collected and the	
	19		action are taken	
			Employers' feedback (Ramco Systems, Ramco	
	*		Employers feedback (Ranko bystems, Rameo	

Form No. AC 11c

				~			
			•	and Accuratowards the The sche (Sundaram Automotive SKF Beari	Harita Techserv, UCA ate Steel Forging) and air valuable suggestion duled future camp Clayton, Hosu at India – Internship ngs, JSW Steel, National LabVIEW Association of the India LabVIEW Associatio	the action taken as. us drives are r, Myunghwa cum Placement, onal Instruments	
	,			ng contribu	an, AP(Sr.Gr.)/Medition details of the Amni Contribution Details	Alumni over the	
			1.	10.01.20	Mr.M.Padmanapan, Design Engineer Trainee, Harita Techserv Limited. (2015 – 2019)	Role of Design Engineer	
			2.	26.02.20	Mr.Jeevaganesh. C Mr.Arumugam.A Mr.Karthickraj.A Team Leader in RANE, Chennai. (2015 – 2019)	What Industry Expect from Engineer	
7.	Alumni Interaction and	Continuous	3.	25.05.20	Mr.K.Gopinath and Mr.S.Harikrishna (2013 – 2017)	Gate is a Gateway for new life	Alumni coordinator
	Contribution		4.	05.06.20	Mr.M.Karthick Gowtham, Deputy Registrar (Group I), Cooperative Society. (2013 – 2017)	Preparation Strategy for TNPSC Exams	
			5.	13.09.20	K. Ajeethkumar, Managing director of AK Constructions. (2015 – 2019)	Scope for Entrepreneurs	
Q.	- E		6.	27.09.20	R.Ajith Kumar, Quality Engineer, CSWIP 3.1 Welding Inspector, ASNT Level II RT, UT, Severn Glocon India Pvt Ltd, Chennai. (2015 – 2019)	Scope for Jobs in Oil and Petroleum Industry	

Ti Ti			7.	18.10.20	Mr.P.Esakkiraja, Assistant Manager – Mechanical, Ramco Cements Ltd, Ariyalur District. (2014 – 2018)	The Engineer	•
			•	Alumni fee The key fe	Mr.P.Ari Ramalingam, Assistant Manager - New Project and Process Development, RANE NSK Steering System Pvt. Ltd. Ahmedabad (2013 – 2017). Mr.B. Vengalabothi, Junior Functional Consultant, Avaniko Technologies Pvt Ltd., Chennai (2013 – 2017). the inferences received back analysis from 11 are deback from the alure Good Infrastructure,	3 Alumnus.	
		115			ay of teaching, Online and regulations followe	-	
8.	Faculty contribution	Continuous	Dr.V.Si faculty of a line of the second of t	vakumar, contribution improvement (6.04) in recruitment department. Presented to quiz, FDP, (2019-20 and highlighted papers, 1 as chapters), a Patent file 2 copyrights Status of control of Congoing present in Aid Ongoing present in Aid Congoing present (6.00).	ASCP/Mech. addressed in the AY 2020-2021 of three faculty markets.	ratio (18.72 to I through the tembers to the tembers to the tembers for the AY ovember. It is a fine papers, 2 book the tembers to the tempers to the temper	All the faculty members & RIT RC member

	1.			
			 Funds received to conduct program DST – NIMAT – EAC, and IWS, Proposal submitted in DST, RuTAG, ISHRAE, DST-WMT (4), FAER (7). Further, Presented the steps taken to improve Research & Development activities of the department. Ref.: Academic Year Wise Faculty Participation & Research and Developmental activities are listed out in the website https://www.ritrjpm.ac.in/departments/mechanical-engg/mechanical-engg-program-organized-program-participation.php https://www.ritrjpm.ac.in/departments/mechanical-engg/mechanical-engg-research-and-development.php 	
9	Activity leads to Quality improvements	Continuous	 Mr.J.Jerold John Britto, AP(Sr.Gr.)/Mech. presented the activities that lead to quality improvement Project work Categorized the projects done by the students as 6 patentable, 3 product development, 12 project completion and 3 eligible to apply for research grant 8 Dept. level prize winners and 3 institute level prize winners in the National Science Day Ongoing industry base interdisciplinary project through RIT HARITA IOT Home Online course All the faculty members and students utilized free coupons to do courses in Edx/IIRS Multi variable calculus course completed and received certificate by all the faculty members Students involvement in ICTACT – New India Learnthon 2020 (10 Courses / 38 students), Anna University approved value added courses (2 credit and 1 credit subjects / 118 students) AICTE – Universal Human Values course completed by 4 faculty members RIT IUCEE course – 3 faculty members completed Research Research Incentive Rs. 36,500/- received by the faculty members IWCSET – 2020 Participation – 319, Presentation – 46 and publication – 7 Research talk during the Department Review Meeting 	Department of Mechanical Engineering



-	9			
			 Other Programs ESVC Junior 1.0 for school students (Participation: 36 teams / 360 students and 40 faculty members) Webinars participation through IITM PALS, TLC of IITM, ICTACT, RIT – IQAC, IRS/ISRO and IUCEE – Entrepreneurship Education Program 46 Virtual laboratory experiments (MHRD V-Lab) conducted for theory and lab courses Suggestion received from Parents Teachers meeting on 23.02.20 Listed out the LMS usage, activities through the GATE class and revised ISO Forms (SV 01, PU 02, PU 04 and AC 11c) 	•
10.	Members Suggestions for Improvements	Before commencing the next DRM - IV	 Mr.N.Rajasekaran – Dy. General Manager, BHEL, Trichirapalli. (Industry Member) Appreciated the student and faculty contribution by the department. Suggested to approach the professional societies for funding to conduct program Dr.L. Srinivasan – Dy. General Manager, VSSC, ISRO (R& D Member) Appreciated the overall presentation by the faculty members and suggested to take necessary action to address the weaker areas represented in the employer's feedback. Congratulated the winners and participant students in National Science day Project Presentation competition and India skills competition. Encouraged the faculty members to work in the Additive Manufacturing field and highlighted the opportunities available to work with Indian Space Research Organization. Dr.M.Palaninatharaja, Dean P&D, TCE (Academic member) Appreciated the content presented in the meeting and suggested to identify the impact analysis and corrective action plan for further improvement to the next academic year. Advised to enhance fruitful interaction through MoUs with industries and obtain more outcomes. Advised to analyse CO-PO-PSOs semester wise. Suggested to create a plan for the new academic year and periodically check the progress and its deviation if any. 	Department of Mechanical Engineering

 Recommended to follow the existing procedure adapted in the calculation of CO-PO-PSO and setting the target for the next academic year.

Mr.P.Esakkiraja, Asst Manager, Ramco Cements Ltd., Alathithur. (Alumni Member)

 Requested to ensure that third and final year students are provided opportunities to refresh their fundamentals in their higher semesters.

Mr.K.Aravind Kumar, Asst. Manager, Madasamy Nadar Restaurant, (Alumni Member)

 Suggested to create awareness about Entrepreneurship through Institute Innovation Council by conducting program.

Dr.S.Rajakarunakaran, Prof. & Head Mech. (Internal Member)

- Recommended to disseminate the activities carried out through the industry by the department in the college website.
- Motivated the faculty members to do more innovative practices in their subject and laboratory courses and update in the website periodically.

Dr.K.Karthikeyan, ASCP/EEE (Internal Member)

 Recommended to review periodically, the Internship/In-plant training undergone by the students through Department Consultative Committee.

Dr.M.Gomathy Nayagam, ASCP/CSE (Internal Member)

 Suggested to create pathway to the interested mechanical engineering students to involve in the Automation and Robotics Club

Dr.O.Senthilkumar, ASCP/Chemistry (Internal Member)

 Proposed to submit more inter disciplinary project proposals to the governmental and nongovernmental agencies.



		2 224	
		 Dr.T.Manimaran, ASCP/Maths (Internal Member) Advised to make use of faculty members from mathematics to provide coaching for GATE class attending students through Higher Education Cell and Math Experts Club. Dr.P.Sureshkumar, ASCP/Mech. (Internal Member) Recommended to provide facilities for the hostellers to come and work in the laboratory after regular working hours. Dr.V.Sivakumar, ASCP/Mech. (Internal Member) Suggested to constitute a committee and strengthen the quality of projects and get more tangible outcomes. 	
Vote of Thanks	-	Dr.S.Godwin Barnabas, ASCP/Mech. thanked all the internal and external DAC members for attending the meeting.	-
Meho	Verified by:	ical	Approved by: Principal
		Thanks epared by: Verified by:	mathematics to provide coaching for GATE class attending students through Higher Education Cell and Math Experts Club. Dr.P.Sureshkumar, ASCP/Mech. (Internal Member) • Recommended to provide facilities for the hostellers to come and work in the laboratory after regular working hours. Dr.V.Sivakumar, ASCP/Mech. (Internal Member) • Suggested to constitute a committee and strengthen the quality of projects and get more tangible outcomes. Vote of Thanks Dr.S.Godwin Barnabas, ASCP/Mech. thanked all the internal and external DAC members for attending the meeting.

Copy to:

1) Members of DACM

2) Faculty members of Mechanical Engineering through e-mail and Canvas Classroom for information and necessary action.

3) File

Effective Date: 01.07.2020

Page 11 of 11