

### MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING MOODABIDRI

A Unit of Rajalaxmi Education Trust®, Mangalore Affiliated to V.T.U., Belgaum, Approved by AICTE, New Delhi.

### 1.4.1: Institution obtains feedback on the syllabus and its transaction at the Institution from the following stakeholders

1) Students 2) Teachers 3) Employers 4) Alumni

### **DOCUMENTS ENCLOSED**

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#### **Structured Feedback from Students**

Programme

Name of the Student

mentor

USN.					Date	
		<u> </u>				
1.	How do you rat	C			•	i in different semesters?
	4-Excellent	3- Very	Good	2- Goo	d 1-Fai	r 0-Poor
2.	How do you rat	ou rate the availability of the text books and reference books in the library?				
	4-Excellent	3- Very	Good	2- Goo	d 1-Fai	r 0-Poor
3.	How do you r	ate courses	in terms o	f their re	elevance to the	e latest and /or future
	technologies?					
	4-Excellent	3- Very	Good	2- Goo	d 1-Fai	r 0-Poor
4.	How do you rate ambience of the class rooms for effective delivery of the lectures?					very of the lectures?
	4-Excellent	3- Very	Good	2- Goo	d 1-Fai	r 0-Poor
5.	How do you r	ate the qua	lity and the	relevanc	e of the cours	ses prescribed into the
	curriculum?					
	4-Excellent	3- Very	Good	2- Goo	d 1-Fai	r 0-Poor
6.	How do you rate Institute activities that help in getting jobs and placements?					
	4-Excellent	3- Very	Good	2- Goo	d 1-Fai	r 0-Poor
7.	How do you rate quality of teaching during the entire programme?					
	4-Excellent	3- Very	Good	2- Goo	d 1-Fai	r 0-Poor
8.	How do you rate teacher's approach about your overall development?					
	4-Excellent	3- Very	Good	2- Goo	d 1-Fai	r 0-Poor
9.	How do you rat	te transparei	ncy of the ev	aluation s	ystem in the Ir	nstitution?
	4-Excellent	3- Very	Good	2- Goo	d 1-Fai	r 0-Poor
10. Mentor does a necessary follow-up with you regarding the assigned task to you.						
	4-Every time	3-Usually	2- Occasion	nally / So	metimes 1- Ra	arely 0- I don't have a

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#### **Structured Feedback from Teachers**

Name of the Teacher	Employee ID					
Department		Date				
How do you rate the qual curriculum	ity and the relevan	ce of the cou	rses included into the			
4-Excellent 3- Very C	Good 2- Goo	d 1-Fai	r 0-Poor			
2. How do you rate the student	s ability to understan	nd the course ta	nught by you?			
4-Always effective 3-						
ineffective 0-Very poor communication						
3. Do students discuss assignm	ents and problems w	ith you?				
4-Every time 3- Usually						
4. Do you illustrate the concept						
4-Every time 3- Usually						
5. How do you rate ambience						
process?	process?					
4-Excllent 3- Very Go	ood 2- Good	l 1-Fair	0-Poor			
6. How do rate courses in terms of their relevance to the latest and/or the future						
technologies?						
4-Excellent 3- Very C	Good 2- Goo	d 1-Fai	r 0-Poor			
7. How do you rate the outcomes that your student has achieved from the courses						
4-Excellent 3 - Very	Good 2- Goo	od 1-Fa	ir 0-Poor			
8. How do you rate the transformation of your students after the completion of the cour						
4-Excellent 3- Very C	Good 2- Goo	d 1-Fai	r 0-Poor			
9. How do you rate the Institut	9. How do you rate the Institutional activities that help your students in getting jobs a					
placements?						
4-Excellent 3- Very C	Good 2- Goo	d 1-Fai	r 0-Poor			
10. How do you rate the transpar	ency of the evaluation	on system in th	e University?			

3- Very Good 2- Good

4-Excellent

0-Poor

1-Fair



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### **Structured Feedback from Employer**

Name of the Employer				Date:		
Organ	ization:					
1	Taabniaal alzilla	onnyonyiata ta iah ya	aguiramanta			
1.		appropriate to job re	-	1 E-i-	0 D	
2	4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor	
2.		Punctual in att	ending work and	honor comn	nitment to_meet	
	deadlines		2 G 1	1.5.	0 B	
	4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor	
3.	1 2					
	4-Excellent	,	2- Good	1-Fair	0-Poor	
4.	Adequacy of skill					
	4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor	
5.	Quality of work: Compete tasks accurately. Work reflects neatness, attention to					
	detail, and compliance to company standards					
	4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor	
6.	Adequacy of Curriculum					
	4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor	
7.	Target Orientation					
	4-Excllent	3 - Very Good	2- Good	1-Fair	0-Poor	
8.	<u>Initiative</u> : Consistently demonstrates a proactive nature. Takes appropriate action					
	without constant supervision					
	4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor	
9.	Ability to relate theory to practice					
	4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor	
10	. Analysis and Ju	udgment: Demon	strates the ability	to analyze the	e facts and make	
	<b>10.</b> <u>Analysis and Judgment</u> : Demonstrates the ability to analyze the facts and make sound decisions					
	4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor	
11	. Communication	•	Expresses verbal	and written		
		th others and resolv	-		, and the second	
	4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor	
12	. Overall rating	5 101 <sub>3</sub> Good	2 3000	1 1 411	0 1 001	
12	4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor	
	LACCHOIL	J VOLY GOOD	∠ 000u	1 1 411	0 1 001	

# Invent Solutions

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#### Structured Feedback from Alumni

Name of the Alumni		Pro	gram			
Graduation Year		Dat	te			
1. Quality of cou	1. Quality of course content including the project work during your entire programme.					
4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor		
2. How do you ra	How do you rate the coverage of courses during programme?					
4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor		
3. How do you ra	How do you rate the curriculum that helps in your employment?					
4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor		
4. How do you ra	ate the syllabus applica	bility/relevance to	real life situation	on?		
4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor		
5. How do you r	ate the programme cur	rriculum in terms	of knowledge,	concepts, skills,		
analytical abili	ities and broadening pe	erspectives?				
4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor		
6. How do you ra	ate the clarity and relev	rance of class room	n & teaching ma	iterials?		
4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor		
7. How do you ra	How do you rate the focus towards the research orientation during the programme?					
4-Excellent	3- Very Good	2- Good	1-Fair	0-Poor		
8. Teachers info	rm you about your	expected compe	tencies, course	outcomes and		
programme ou	programme outcomes.					
4-Every time	3- Usually 2- Occa	sionally/Sometime	es 1-Rarely	0-Never		
9. The teachers	. The teachers identify your strengths and encourage you by providing right level of					
challenges.	challenges.					
4-Fully 3-	- Reasonably 2- Pa	artially 1-Sl	lightly 0- Unab	le to		
10. Teachers are a	ble to identify your we	akness and help y	ou to overcome	them		
4-Every time	4-Every time 3- Usually 2- Occasionally/Sometimes 1-Rarely 0-Never					
11. The institute	11. The institute / teachers use student centric methods such as experiential learning,					
participative 1	participative learning and problem solving methodologies for enhancing learning					
experiences.	experiences.					
4-To a great ex	xtent 3- Moderate 2-	-Somewhat 1- V	Very little 0-1	Not at all		
12. Teachers enco	urage you to participate	e in extracurricula	r activities			
4-Strongly agr	ree 3- Agree 2- N	Neutral 1- Di	isagree 0-St	rongly disagree		
13. Efforts are m	ade by the institute/to	eachers to inculc	ate soft skills,	life skills, and		
employability skills to make you ready for the world of work.						

4-To a great extent 3- Moderate 2- Somewhat 1- Very little 0-Not a Page |4



# Structured Feedback from Students 2019-20

204 responses

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USN

204 responses

4MT16EC054

4MT16EC088

4mt16ec075

4MT16EC012

4MT16EC002

4MT16EC057

4Mt16ec041

4MT16EC087

4MT16EC062

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Name

204 responses

Nidhi Shetty

Srujana M

Sanjay T R

Amrutha

**ABHIJITH P** 

Pavan M Shetty

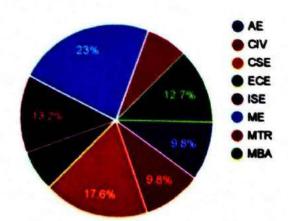
Khalid mohidin mohammed

Srinidhi S

Rahul Krishnanand Naik

### Department

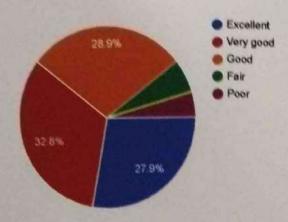
204 responses



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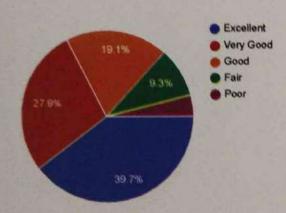
Mangalore Institute of Technology & Engineering Badaga Mijar, MOODBIDRI - 574 225 1. How do you rate Programme in terms of the Curriculum Syllabi in different semesters?

204 responses



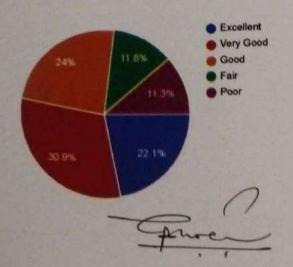
2. How do you rate the availability of the text books and reference books in the library?

204 responses



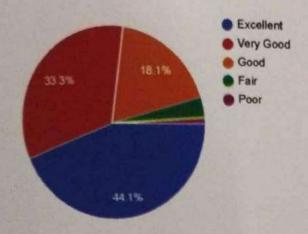
3. How do you rate courses in terms of their relevance to the latest and /or future technologies?

204 responses



Mangalore Institute of Technology & Engineering Badaga Mijar, MOODBIDRI - 574 225 4. How do you rate ambience of the class rooms for effective delivery of the lectures?

204 responses



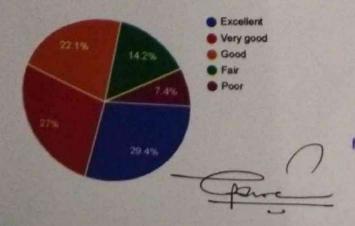
5. How do you rate the quality and the relevance of the courses prescribed into the curriculum?

204 responses



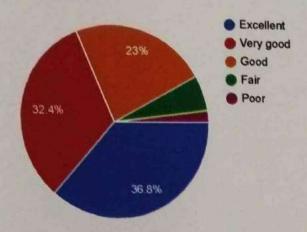
6. How do you rate Institute activities that help in getting jobs and placements?

204 responses

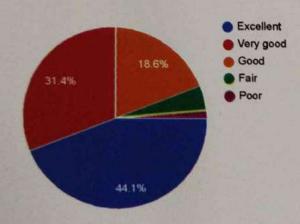


Mangalore Institute of Technology & Engineering Badaga Mijar, MOODBIDRI - 574 225

# 7. How do you rate quality of teaching during the entire programme? 204 responses



# 8. How do you rate teacher's approach about your overall development? 204 responses



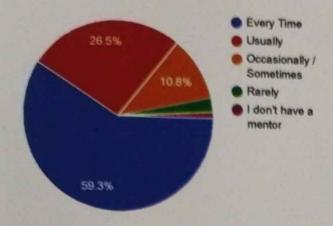
## 9.How do you rate transparency of the evaluation system in the Institution? 204 responses



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10.Mentor does a necessary follow-up with you regarding the assigned task to you.

204 responses



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## Structured Feedback from Teachers -2018 Scheme

80 responses

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Name

80 responses

Pallavi S

Dr. Joseph Michael Jerard

Dr. Raghavendra Sagar

Dr.Neelakantha V Londe

Anusha Jain

Akhila Rupesh

Varn K

Ajith Kumar

Dr Vishwanath M S

Mangalore Institute of Calabology & Engineering Badaga Milas and Dollars

Employee ID

80 responses

ISE737

ISE800

BCSPH465

MEC 390

CIV759

AER745

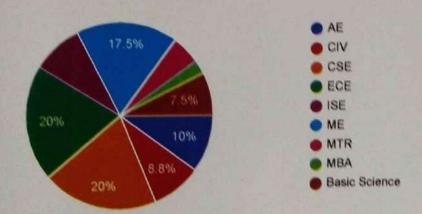
MBA78

**AER214** 

ECE799

### Department

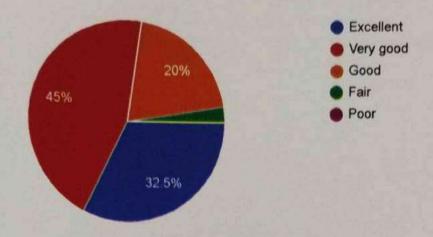
80 responses



- Coure

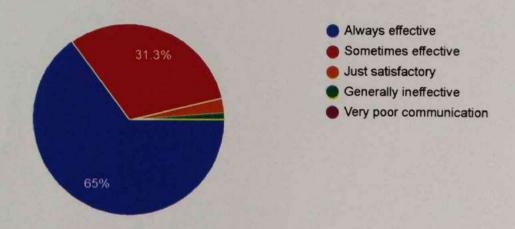
Mangalore Institute of Technology & Engineering Badaga Mijar, MOODBIDRI - 574 225 1. How do you rate the quality and the relevance of the courses included into the curriculum

80 responses

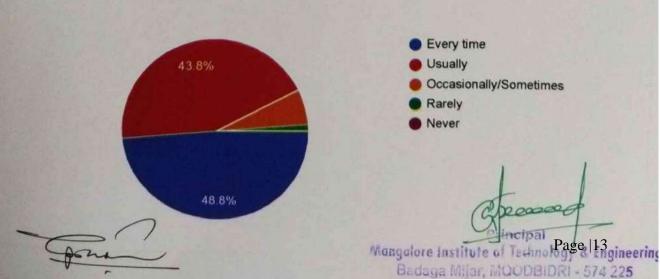


2. How do you rate the student's ability to understand the course taught by you?

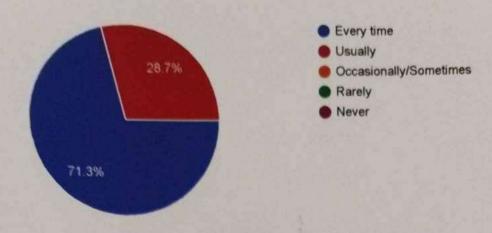
80 responses



3.Do students discuss assignments and problems with you?

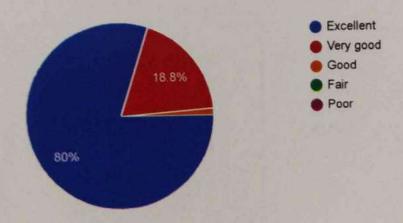


4.Do you illustrate the concepts through examples and applications?



5. How do you rate ambience of the Institution for effective delivery of the academic process?

80 responses

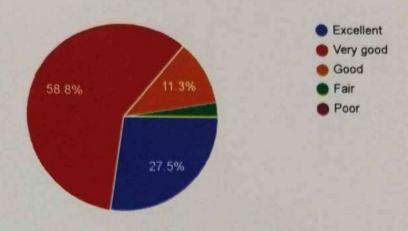


6. How do rate courses in terms of their relevance to the latest and/or the future technologies?



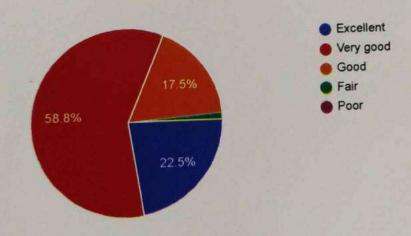
7. How do you rate the outcomes that your student has achieved from the courses

80 responses



8. How do you rate the transformation of your students after the completion of the course?

80 responses



9. How do you rate the Institutional activities that help your students in getting jobs and placements?

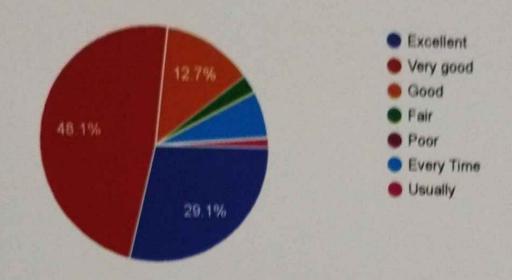
80 responses



Badaga Milar, MO

10. How do you rate the transparency of the evaluation system in the University?

79 responses



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## Structured Feedback from Teachers 2017 Scheme

73 responses

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Name

73 responses

Ganesh Raj Urs G P

Ramalingam H M

Sumalatha U

SHIVAPRASAD T K

Guruprasad

Ms. Nischitha

Supreetha YL

AISHWARYA M BHAT

Dr C R Rajashekhar

Mangalore Institute of Technology & Engineering Badaga Mijar, MOODBIDRI - 574 225

**Employee ID** 73 responses

MEC700

ECE226

CSE604

CSE636

CSE261

**ECE739** 

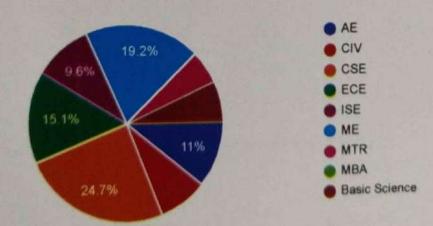
CIV760

CSE801

MEC287

### Department

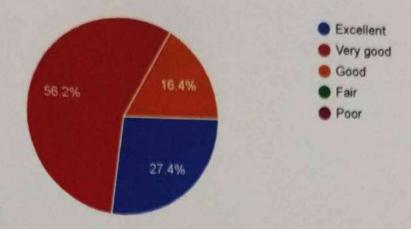
73 responses



Ameipar Mangalore Institute of Technology & Engineering Badaga Mijar, MOODBIDRI - 574 225

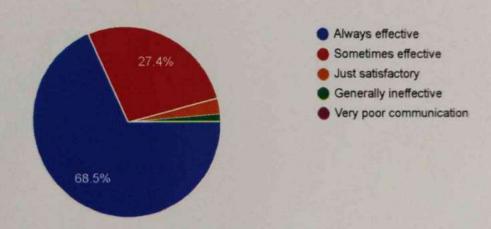
1. How do you rate the quality and the relevance of the courses included into the curriculum

73 responses



2. How do you rate the student's ability to understand the course taught by you?

73 responses



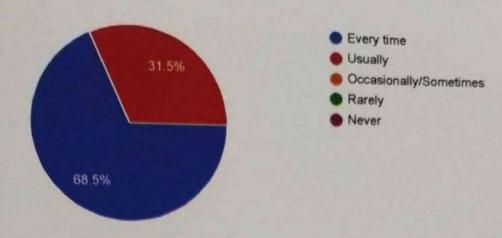
3.Do students discuss assignments and problems with you?

73 responses



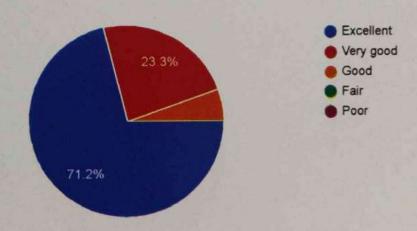
Badaga Mijar, MOODBIDRI - 574 225 Page |19

4.Do you illustrate the concepts through examples and applications? 73 responses

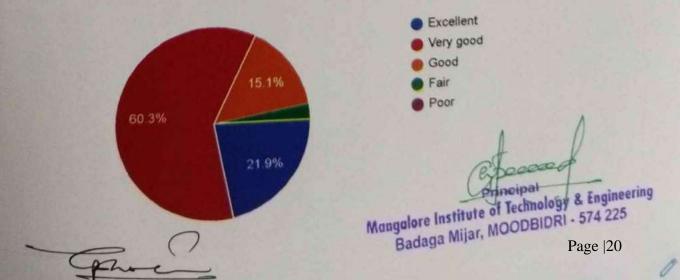


5. How do you rate ambience of the Institution for effective delivery of the academic process?

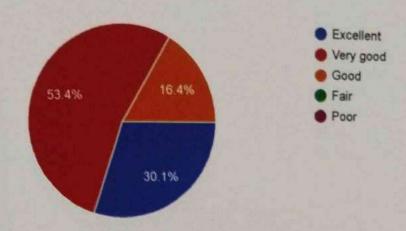
73 responses



6. How do rate courses in terms of their relevance to the latest and/or the future technologies?

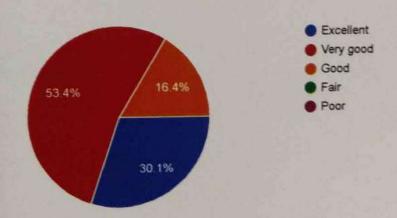


7.How do you rate the outcomes that your student has achieved from the courses
73 responses

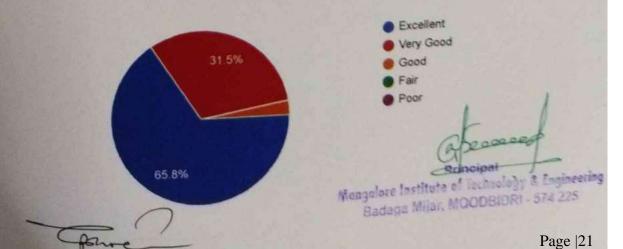


8. How do you rate the transformation of your students after the completion of the course?

73 responses

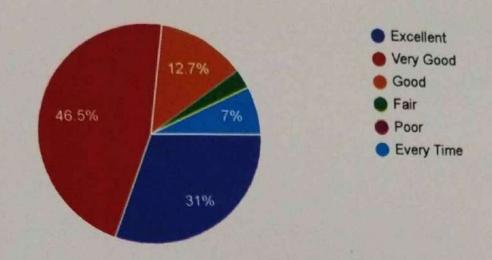


9. How do you rate the Institutional activities that help your students in getting jobs and placements?



10.How do you rate the transparency of the evaluation system in the University?

71 responses



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### Structured Feedback from Teachers 2015 Scheme

60 responses

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Name

60 responses

SHIVAJI LAMANI

Krishnamoorthy K

Ajith Kumar

Madhusudhan B

Suma K

Dr C R Rajashekhar

Vikranth Kannanth M S

Aveen K P

Vishwaretha K R

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Radaga Milan, MOODBIDRI - 574 225

**Employee ID** 60 responses

AER764

CSE191

**AER 214** 

**MEC773** 

**CSE763** 

**MEC287** 

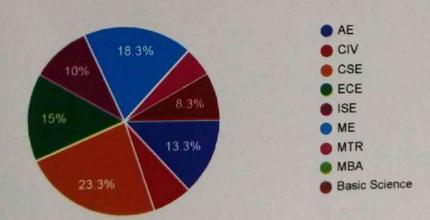
**MEC335** 

**MEC498** 

AER747

### Department

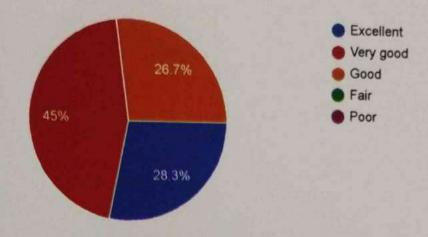
60 responses



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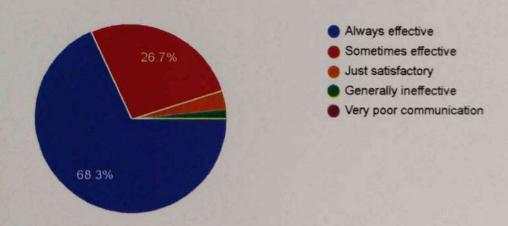
1.How do you rate the quality and the relevance of the courses included into the curriculum

60 responses

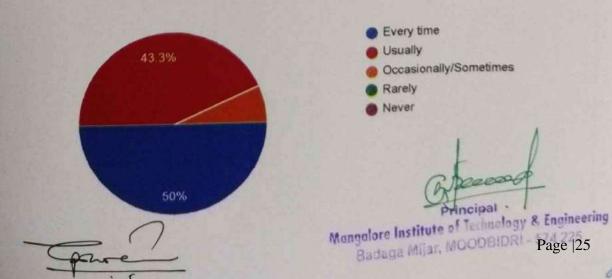


2. How do you rate the student's ability to understand the course taught by you?

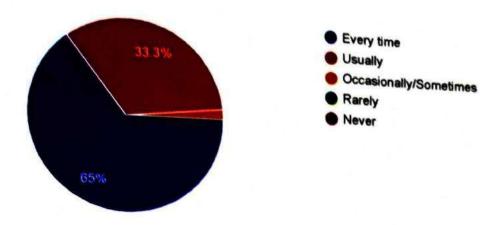
60 responses



3.Do students discuss assignments and problems with you?

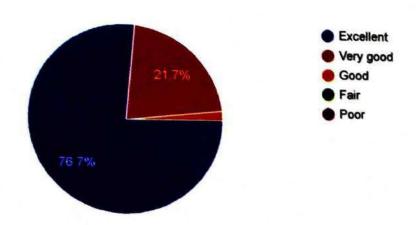


4.Do you illustrate the concepts through examples and applications?

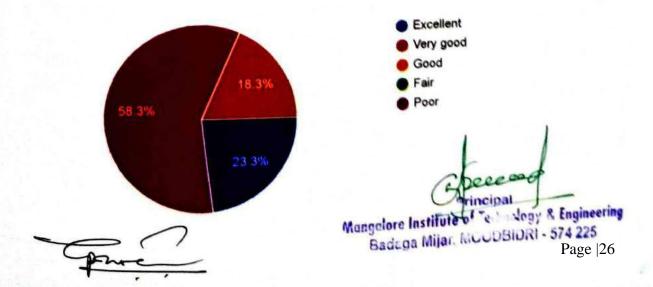


5. How do you rate ambience of the Institution for effective delivery of the academic process?

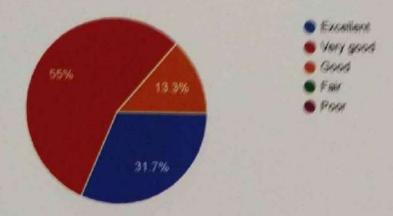
60 responses



6. How do rate courses in terms of their relevance to the latest and/or the future technologies?

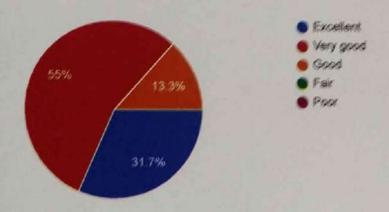


7.How do you rate the outcomes that your student has achieved from the courses
60 responses

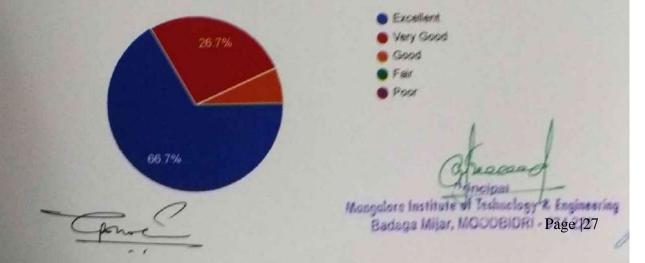


8. How do you rate the transformation of your students after the completion of the course?

60 responses

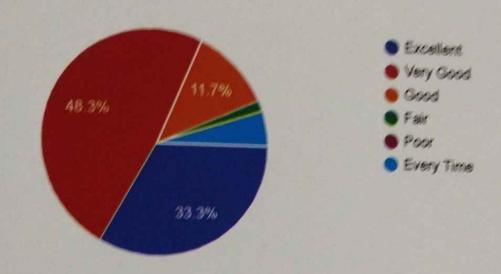


9. How do you rate the Institutional activities that help your students in getting jobs and placements?



10. How do you rate the transparency of the evaluation system in the University?

60 responses



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# Structured Feedback from Teachers -2010 Scheme

42 responses

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Name

42 responses

Sagar S

Dr. Jayaprakash M C

Swapna Srinivasan

Sujesh Kumar

Aveen K P

Mohan Kumar

Vikranth Kannanth M S

Ms. Nischitha

SANJEEVI KUMAR P

James,

Mangalore Institute of Technology & Engineering Badaga Mijar, MOODBIDRI - 574 225

### Employee ID

A2 responses

**CIV545** 

**CIV301** 

ECE367

**AER409** 

**MEC498** 

**MEC560** 

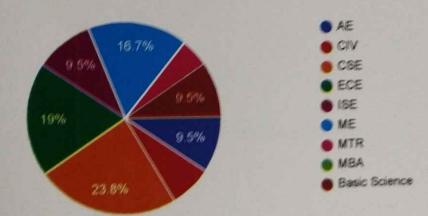
**MEC335** 

**ECE739** 

**ECE171** 

### Department

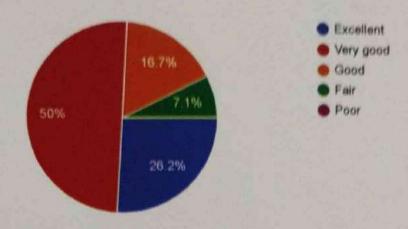
42 responses



Jone?

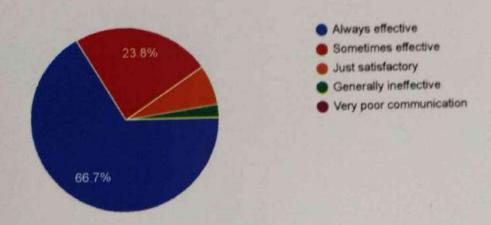
Mangulore Institute of T. Amology & Engineering Badaga Mijar, MOODBIDRI - 574 225 1.How do you rate the quality and the relevance of the courses included into the curriculum

42 responses

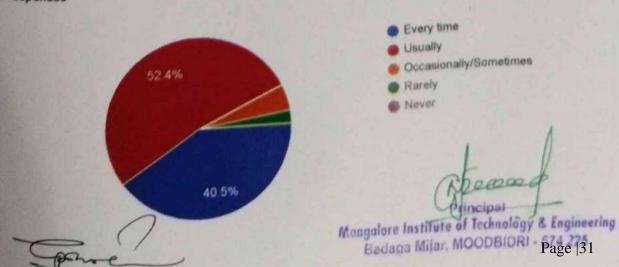


2. How do you rate the student's ability to understand the course taught by you?

42 responses



3.Do students discuss assignments and problems with you?



4.Do you illustrate the concepts through examples and applications?

38.1%

59.5%

Every timeUsually

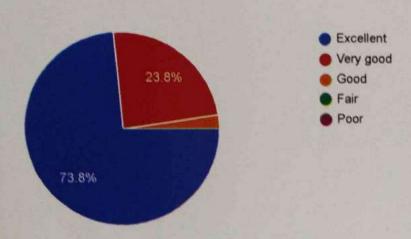
Occasionally/Sometimes

Rarely

Never

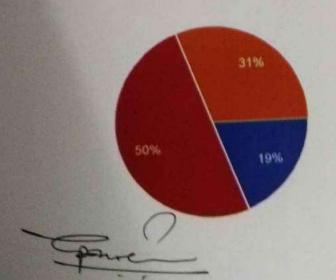
5. How do you rate ambience of the Institution for effective delivery of the academic process?

42 responses



6. How do rate courses in terms of their relevance to the latest and/or the future technologies?

42 responses

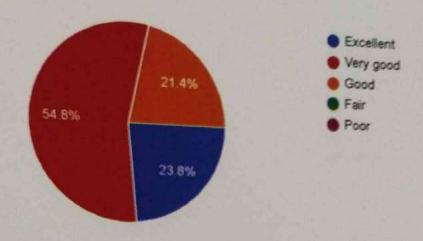


ExcellentVery goodGoodFairPoor

Mangalore Institute of Technology & Engineering Badaga Milar, MOODBIDR Page 132:5

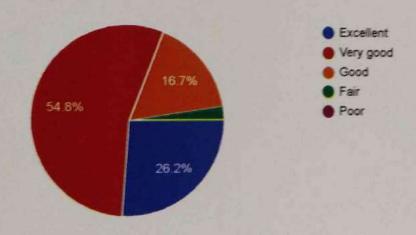
7.How do you rate the outcomes that your student has achieved from the courses

42 responses

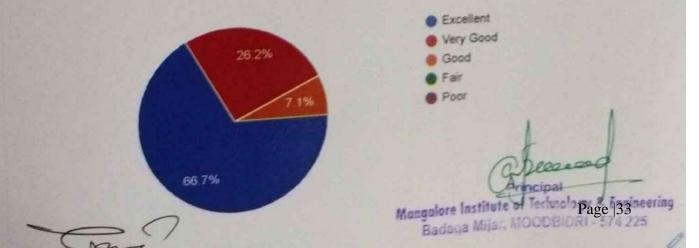


8. How do you rate the transformation of your students after the completion of the course?

42 responses

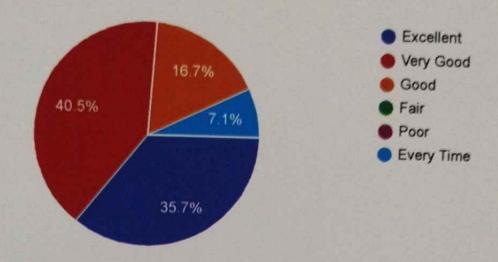


9. How do you rate the Institutional activities that help your students in getting jobs and placements?



10. How do you rate the transparency of the evaluation system in the University?

42 responses



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Google Forms

Tonoe

Mangalore Institute of Technology & Engineering
Badaga Mijar, MOODBIDRI - 574 225



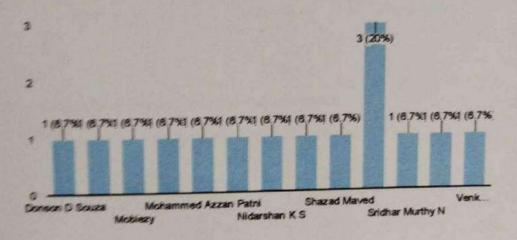
# MITE Moodabidri:: Structured Feedback from Employer

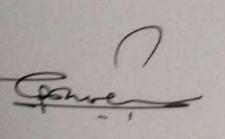
15 responses

Publish analytics

Name Of the Employer

15 responses



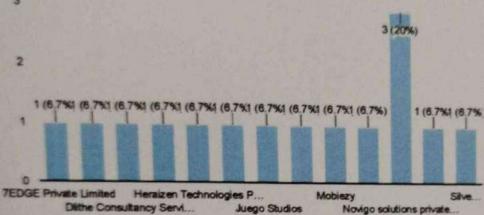


Mangalore Institute of Schoology & Engine Badaga Mijar, MOODBIDRI - 574 22

#### Organization

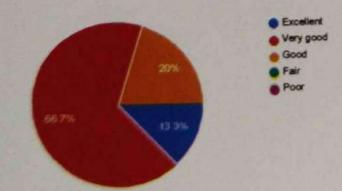
15 responses

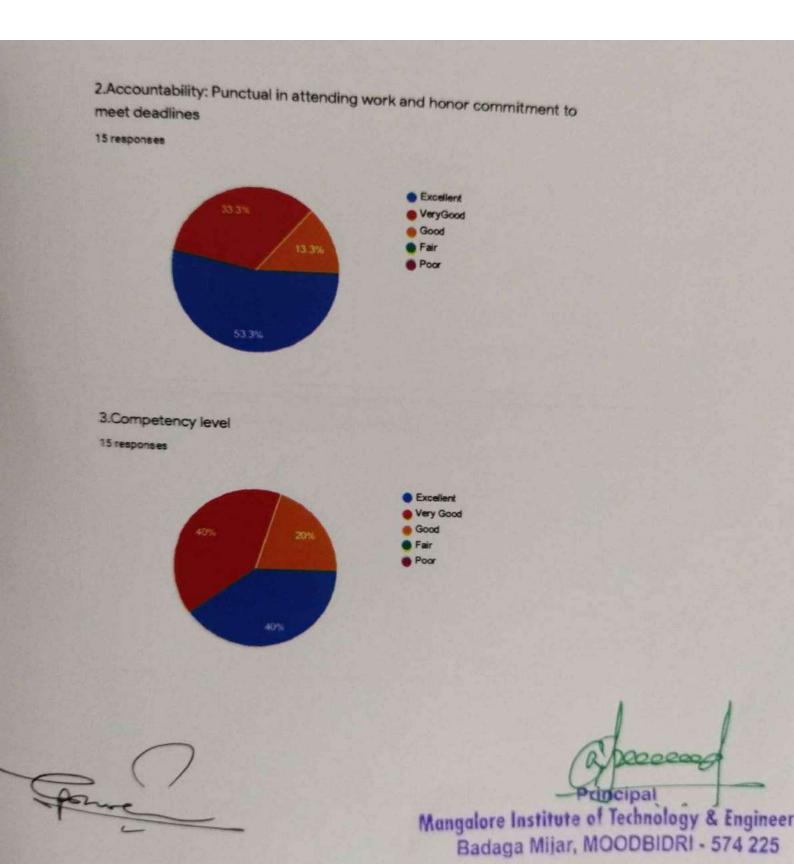




#### 1.Technical skills appropriate to job requirements

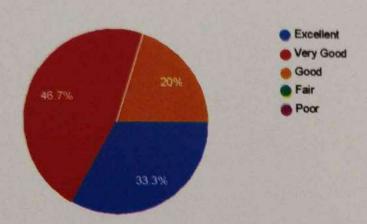
#### 15 responses





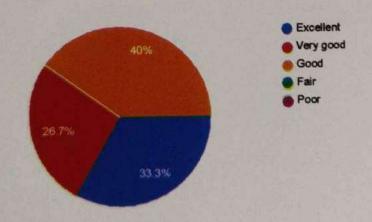
#### 4.Adequacy of skill

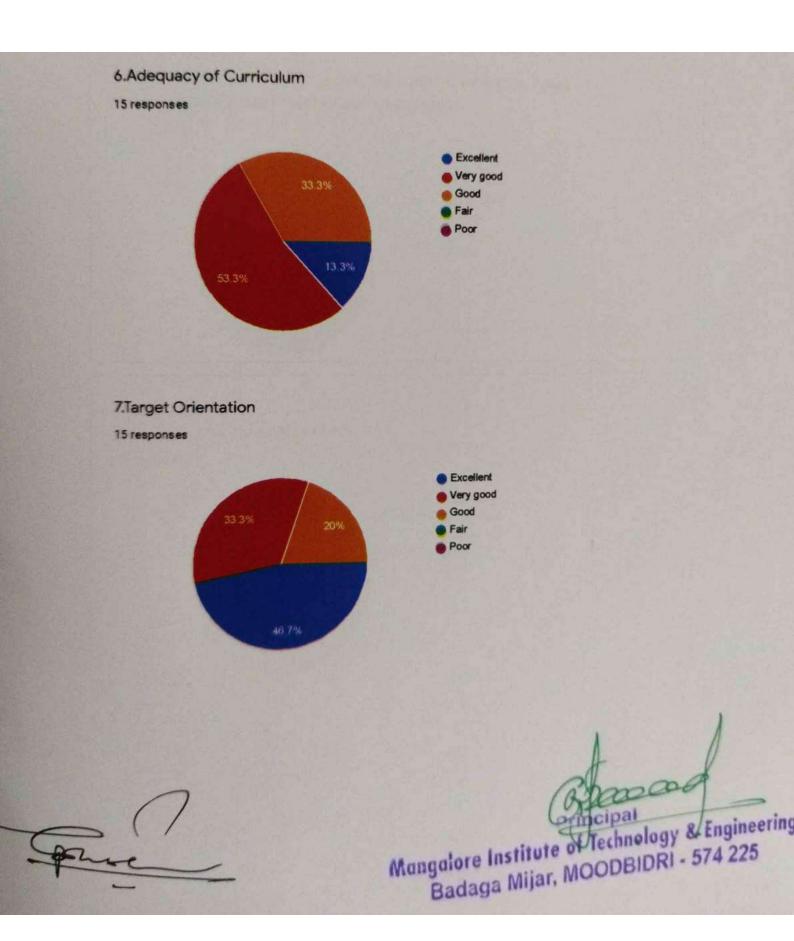
#### 15 responses



5. Quality of work: Compete tasks accurately. Work reflects neatness, attention to detail, and compliance to company standards

#### 15 responses

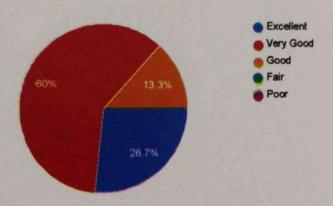




8.Initiative: Consistently demonstrates a proactive nature. Takes appropriate action without constant supervision 15 responses Excellent Very good 9. Ability to relate theory to practice 15 responses Excellent Very Good Good Mangalore Institute of Technology & Engineerin Badaga Mijar, MOODBIDRI - 574 225

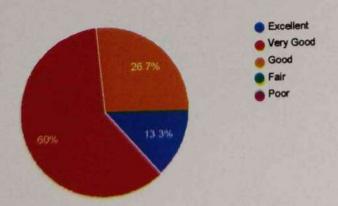
10.Analysis and Judgment: Demonstrates the ability to analyze the facts and make sound decisions

15 responses

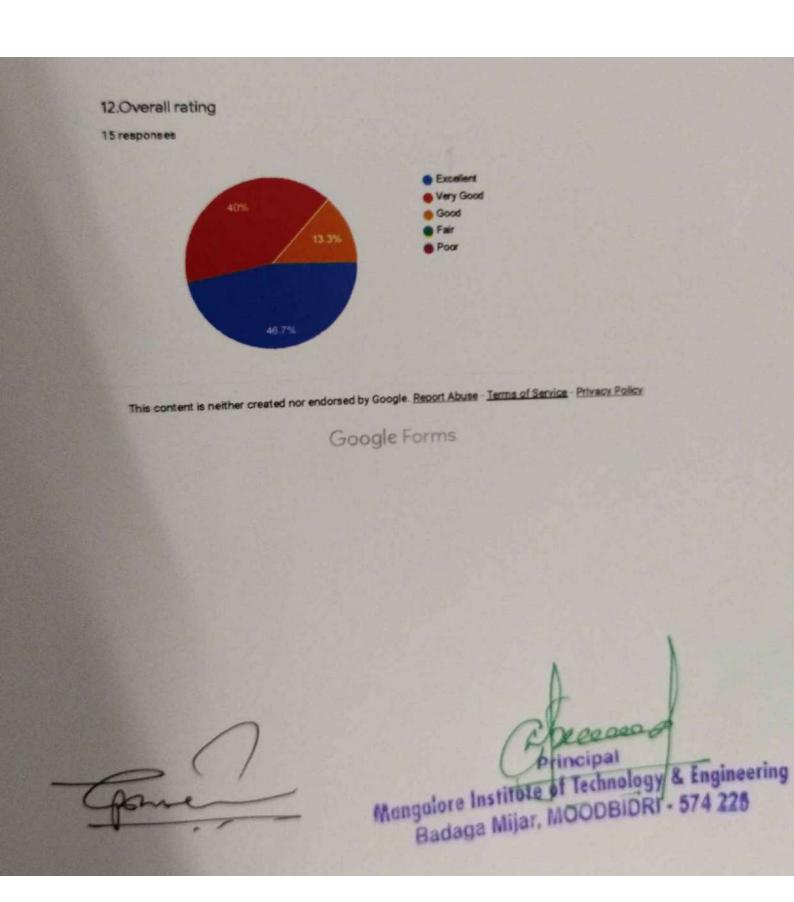


11.Communication and Attitude: Expresses verbal and written ideas effectively. Interacts well with others and resolves conflicts

15 responses



Some ()





### Structured Feedback from Alumni 2019-20

167 responses

Publish analytics

Grand !

Name

167 responses

Aditya

Prathika Shetty

Sujith

Akshaya B

Sharadhi A Patil

Neha Rao

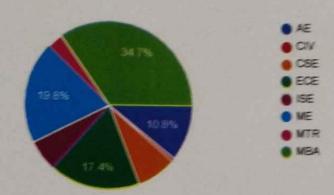
Arpitha

Ravikumar udupa

Sushravya

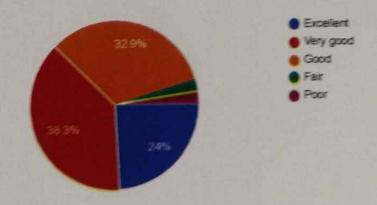
#### Department

167 responses

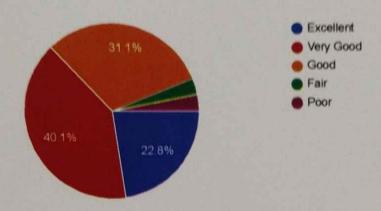


1.Quality of course content including the project work during your entire programme

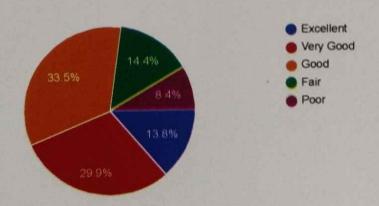
167 responses



## 2. How do you rate the coverage of courses during programme? 167 responses



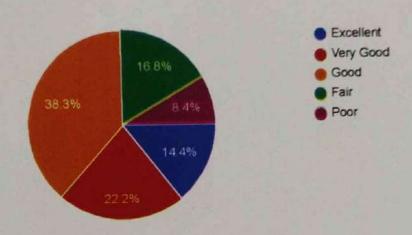
# 3. How do you rate the curriculum that helps in your employment? 167 responses



- Commercial Commercia

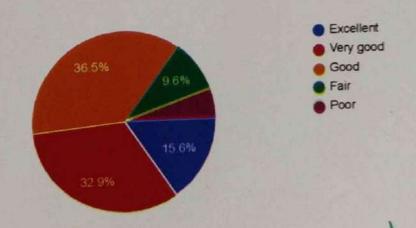
4. How do you rate the syllabus applicability/relevance to real life situation?

167 responses



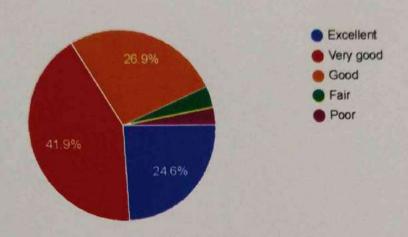
5. How do you rate the programme curriculum in terms of knowledge, concepts, skills, analytical abilities and broadening perspectives?

167 responses



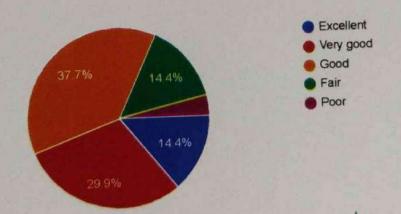
6. How do you rate the clarity and relevance of class room & teaching materials?

167 responses



7. How do you rate the focus towards the research orientation during the programme?

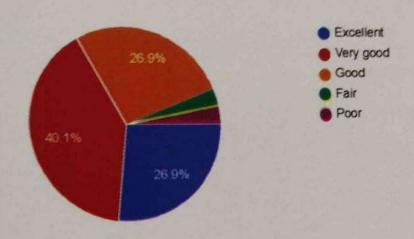
167 responses



Jane 1

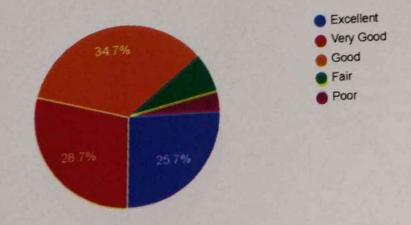
8.Teachers inform you about your expected competencies, course outcomes and programme outcomes.

167 responses



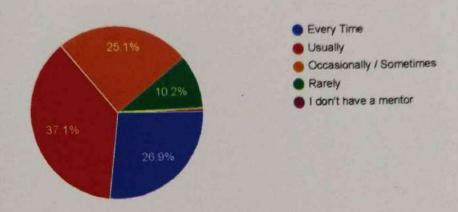
9. The teachers identify your strengths and encourage you by providing right level of challenges.

167 responses



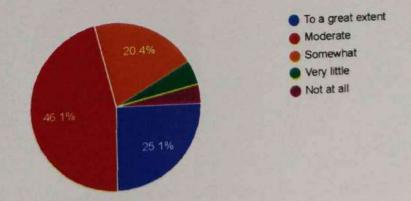
10.Teachers are able to identify your weakness and help you to overcome them

167 responses



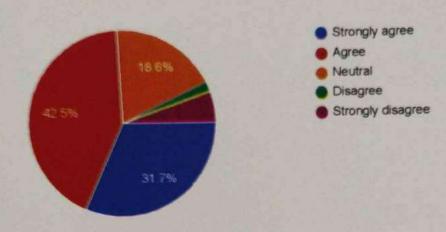
11. The institute / teachers use student centric methods such as experiential learning, participative learning and problem solving methodologies for enhancing learning experiences.

167 responses



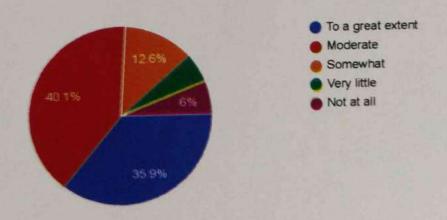
- Free

12. Teachers encourage you to participate in extracurricular activities



13.Efforts are made by the institute/teachers to inculcate soft skills, life skills, and employability skills to make you ready for the world of work.

167 responses



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### MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING



An ISO 9001: 2015 Certified Institution, Accredited by NAAC (A unit of Rajalaxmi Education Trust\*)

Affiliated to V.T.U., Belagavi, Approved by AICTE, New Delhi.

#### Action Taken Report

Date: 23-07-2018

#### Background:

Students of the third semester of Aeronautical Engineering submitted their grievance on the syllabus for the course 'Mechanics of Materials (Course Code: 15AE34). The course has contents that are of higher order and not conducive for under graduate students at the third semester since the pre-requisite courses were not included in the earlier semesters.

#### Action taken:

Since MITE is an affiliated institution and the syllabus is set by the Visvesvaraya Technological University (VTU), Belagavi, the institute holds no flexibility in formulating the syllabus. Hence the institute forwarded a requisition letter to the Chairman of Board of Studies of Aeronautical Engineering, Registrar, VTU and the Vice-Chancellor, VTU addressing the issues raised by the students.

#### Outcome:

The Board of Studies of the Aeronautical Engineering of the affiliated University after due discussion, revised the syllabus for the course in the subsequent 2018 scheme for the Undergraduate Aeronautical Engineering.

Dr. G.Purushotham

Manual Engir sering.
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Manual Engir sering.
Manual Moodabidn 674225
Manual Moodabidn 674225

Dr. G.L.Easwara Prasad

Principal
Principal
Mangalore Institute of Technology & Engineering
Badaga Mijar, MOODBIDRI - 574 225

#### TECHNOLOGY & ENGINEERING MANGALORE INSTI

An ISO 9001: 2008 Certified Institution) (A unit of Rajalaxmi Education Trust\*)

Affiliated to V.T.U., Belgaum, Approved by AICTE, New Delhi.

To. Date: 30.05.2017

The Registrar,

VTU, Belagavi-590 018.

Respected Sir.

Sub: Result of Mechanics of Materials (15AE34) - Reg.

With reference to the about subject, we wish to bring to your kind consideration the following information.

The third semester CBCS scheme students of Aeronautical Engineering are having a subject titled Mechanics of Materials (MOM), subject code 15AE34. This subject was there in the 2010 scheme also.

In the CBCS scheme, the syllabus of very high order (PG level Syllabus) was set by VTU to the course 15AE34 which was very difficult for the students of 3rd SEM level. Considering this aspect, we have written to the Registrar VTU in our letter dated 18-7-2016, requesting for reconsideration of the syllabus.

The same has been brought to the notice of Chairman - BOS of AE board in the e-mail. dated 16-9-2016 and also conveyed to all the higher authorities of VTU. Inspite of all our requests the syllabus of MOM (15AE34) remained same as it was given.

The examination was held for the subject on Nov/Dec 2016 and the results are declared. It is also observed that, the result of this subject is found to be very low in the other affiliated colleges of VTU. As expected, the results of this subject is found to be very low, ie; 17% in our institution. The results of all other subjects of same students, under University results are found to be very good (more than 75%). Please see the enclosed letters. Because of PG level syllabus of this subject, students were unable to understand the subject.

Due to this problem, the students and parents of these failed students are under high stress. For all the good students, since they have failed a subject, it may also affect their placement opportunities in future.

We request you to kindly support the students to see that their career is supported. Else otherwise, the career of some of these students may be seriously affected.

Thanking You,

langulare institute of Technology & Engineering Badaga Mijar, MOODBIDR: 574 225

Page |53

#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2015-2016

	1000	Iechanics of Materi e Based Credit System ( SEMESTER – III	
Subject Code	15AE34	IA Marks	20
Number of Lecture Hours/Week	04	Exam Hours	03
Total Number of Lecture Hours	50	Exam Marks	80
		CREDITS - 04	

Course objectives: This course will enable students to

- 1. Comprehend the basic concepts of strength of materials.
- 2. Acquire the knowledge of stress, strain under different loadings.
- 3. Understand the different failure theory.

	Teaching Hours	Revised Bloom's Taxonomy (RBT) Level
Module -1	10 Hours	L1, L2
Basic equations of linear elasticity: The concept of stress, Analysis of the state of stress at a point, Equilibrium equations, The state of plane stress, The concept of strain, Analysis of the state of strain at a point, Plane strain and plane stress in polar coordinates, Problem featuring cylindrical symmetry.		
Constitutive behaviour of materials: Constitutive laws for isotropic materials, Allowable stress, Yielding under combined loading, Material selection for structural performance, Composite materials, Constitutive laws for anisotropic materials, Strength of a transversely isotropic lamina. Engineering structural analysis: Solution approaches, Bar under constant axial force, Pressure vessels.		
Module -2  Euler-Bernoulli beam theory: The Euler-Bernoulli assumptions, Implications of the Euler-Bernoulli assumptions, Stress resultants Beams subjected to axial loads, Beams subjected to transverse loads, Beams subjected to combined axial and transverse loads.	10 Hours	L1, L2. L3
Three-dimensional beam theory: Kinematic description, Sectional constitutive law, Sectional equilibrium equations, Governing equations, Decoupling the three-dimensional problem, The principal centroidal axes of bending. The neutral axis, Evaluation of sectional stiffness.		
Module -3	10 Hours	L1, L2, L3
Module -3  **Torsion: Torsion of circular cylinders . Torsion combined with axial	300000000000000000000000000000000000000	11, 112,

#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2015-2016

sections, Torsion of a thin rectangu	HING AND EXAMIN		2016
walled open sections.	iar cross-section, Torsion o	t timi-	
و عظام من المالي وأما كي			
Thin-walled beams: Basic equations	for thin-walled beams, Bend	ing of	
thin-walled beams, Shearing of thin	-walled beams. The shear of	centre.	
Torsion of thin-walled beams, Co Warping of thin-walled beams under			
and twist centres, Non-uniform torsio		Silvai	all land
Module -4		10 Hours	L1, L2, L3
viodule -4		To Hours	L4
Virtual work principles: Introd	uction, Equilibrium and	work	100
fundamentals, Principle of virtual	work, Principle of virtual	work	
applied to mechanical systems, Princ			100
structures. Principle of complemen	tary virtual work, internal	virtual	7.
work in beams and solids.		( TOWN	
Energy methods: Conservative for	ces. Principle of minimum	total	
potential energy, Strain energy in			
Strain energy in solids, Applications		1990	-16-7-7-1
element formulation for trusses, Prin		entary,	
Energy theorems, Reciprocity theorem	ns, Sami-venant's principle.		
Module -5	V.A.	10 Hours	L1, L2, L3
Visiding under combine	d loading Applications of	viold	1 10 100
Yielding: Yielding under combine criteria to structural, Application to b	are trusses and beams. Buck	ling of	1 1
beams: Rigid bar with root torsion sp			
of sandwich beams. Shearing deform			12
beams: an energy approach.			4 - 1
	0 77: 11 00		
Kirchhoff plate theory: Governing theory, The bending problem, Aniso			1 / /
for rectangular plates, Circular, Energy			17 5 5
theory, Buckling of plates.	by remaining of tractillor	Patrick	
Course outcomes:			

After studying this course, students will be able to:

- 1. Apply the basic concepts of strength of materials.
- 2. Compute stress, strain under different loadings.
- 3. Distinguish the different failure theories.

#### Graduate Attributes (as per NBA):

- Engineering Knowledge.
- Problem Analysis.
- Design / development of solutions
- Interpretation of data.

#### Question paper pattern:

#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2015-2016

- · Each full question consists of 16 marks.
- There will be 2 full questions (with a maximum of four sub questions) from each module.
- Each full question will have sub questions covering all the topics under a module.

The students will have to answer 5 full questions, selecting one full question from each module.

#### Text Books:

- 1. S.S. Bhavaikatii, "Strength of Materials", Vikas Publications House, New Delhi, 2012, ISBN-13: 978-8125927914.
- 2. Timoshenko and Young "Elements of Strength of Materials', East-West Press, 1976, ISBN 10: 8176710199.

#### Reference Books:

- 1. Beer.F.P. and Johnston.R, "Mechanics of Materials", McGraw Hill Publishers, 2006, ISBN-13: 978-0073380285.
- 2. S.Ramamrutham, R Narayanan, "Strength of Materials", Dhanapath Rai Publishing Company, New Delhi, 2012, ISBN 13: 9789384378264
- 3. Bao Shihua, Gong Yaoqing "Structural Mechanics" Wuhan University of Technology Press, 2005, ISBN: 7562924074 9787562924074
- 4. T.H.G Megson "Introduction to Aircraft Structural Analysis", Butterworth-Heinemann Publications, 2007, ISBN 13: 9781856179324

#### B. E. AERONAUTICAL ENGINEERING Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER - III

SEIVIESTER - III							
Mechanics of Materials							
Course Code	18AS33/18AE33	CIE Marks	40				
Teaching Hours/Week (L:T:P)	(3:2:0)	SEE Marks	60				
Credits	04	Exam Hours	03				

#### **Course Learning Objectives:**

- Comprehend the basic concepts of strength of materials.
- Acquire the knowledge of stress, strain under different loadings.
- Understand the properties of materials.

#### Module-1

**Basics of linear elasticity:** The concept of stress& strain, state of stress & Strain at a point, Equilibrium equations, The state of plane stress and plane strain. Compatibility equations, Constitutive Laws (Hooke's Law), Stress-strain curves for brittle and ductile materials, Allowable stress, Material selection for structural performance.

**Simple & Compound Stresses:** Extension / Shortening of a bar, bars with cross sections varying in steps, bars with continuously varying cross sections. Elongation due to self-weight. Volumetric strain, expression for volumetric strain, elastic constants, simple shear stress, shear strain, temperature stresses, Introduction to Plane stress, stresses on inclined sections, principal stresses & strains, Analytical & graphical method (Mohr's Circle) to find principal stresses & strains.

#### Module-2

**Bending Moment and Shear Force in Beams:** Introduction, Types of beams, loads and reactions, shear forces and bending moments, rate of loading, sign conventions, relationship between shear force and bending moments. Shear force and bending moment diagrams for different beams subjected to concentrated loads, uniformly distributed load, (UDL) uniformly varying load (UVL) and couple for different types of beams.

**Euler-Bernoulli beam theory:** The Euler-Bernoulli assumptions, Implications of the Euler-Bernoulli assumptions, the Euler-Bernoulli Beam theory derivation, Bending stress equation, Moment carrying capacity of a section. Shearing stresses in beams, shear stress across rectangular, circular, symmetrical I and T sections (Only Numerical).

#### Module-3

**Deflection of Beams:** Introduction, Differential equation for deflection. Equations for deflection, slope and bending moment. Double integration method for cantilever and simply supported beams for point load, UDL, UVL and Couple. Macaulay's method.

**Torsion of Circular Shafts and Elastic Stability of Columns:** Introduction. Pure torsion, assumptions, derivation of torsional equations, polar modulus, torsional rigidity / stiffness of shafts. Power transmitted by solid and hollow circular shafts.

#### Module-4

**Virtual work principles:** Introduction, Equilibrium and work fundamentals, Principle of virtual work, Principle of virtual work applied to mechanical systems, Principle of virtual work applied to truss structures, Principle of virtual work applied to beams. Principle of complementary virtual work, internal virtual work in beams and solids.

**Energy methods:** Conservative forces, Principle of minimum total potential energy, Strain energy in springs, Strain energy in beams, Strain energy in solids, Applications to trusses, Development of a finite element formulation for trusses, Principle of minimum complementary, Energy theorems, Reciprocity theorems, Saint-Venant's principle.

#### Module-5

#### **Mechanical Properties of materials:**

**Fracture**: Type I, Type II and Type III.

Creep: Description of the phenomenon with examples. Three stages of creep, creep properties, stress relaxation.

**Fatigue**: Types of fatigue loading with examples, Mechanism of fatigue, fatigue properties, fatigue testing and S-N diagram.

**Course Outcomes:** At the end of the course the student will be able to:

- CO1: Apply the basic concepts of strength of materials.
- CO2: Compute stress, strain under different loadings.
- CO3: Distinguish the properties of different materials.

#### Question paper pattern:

- The question paper will have ten full questions carrying equal marks.
- Each full question will be for 20 marks.
- There will be two full questions (with a maximum of four sub- questions) from each module.
- Each full question will have sub- question covering all the topics under a module.
- The students will have to answer five full questions, selecting one full question from each module

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbo	ook/s			
1	Strength of Materials	S. S. Bhavaikatii	Vikas Publications House, New Delhi	2012
2	Strength of Materials	S. Ramamrutham	Dhanapath Rai Publishing Company	2012
Refere	ence Books			
1	Introduction to Aircraft Structural Analysis	T. H. G Megson	Butterworth- Heinemann	2007
2	Mechanics of Materials	Beer. F. P. and Johnston. R	McGraw Hill Publishers	2006
3	Elements of Strength of Materials	Timoshenko and Young	East-West Press	1976
4	Structural Analysis	O. A. Bauchau and J. I. Craig	Springer Dordrecht Heidelberg London New York	

# **Evaluation of Course End and Program End survey Details**



Mangalore Institute of Technology & Engineering Badaga Mijar, Near Moodabidre, Karnataka Mangalore

Tel: 582 62695, Email: info@mite.ac.in Fax: 08262220064, Web: www.mite.ac.in

#### Course End Survey 2019-20

Batch: BE, 2018-2022 Staff Name: Mr Ajith Kumar

Subject Code: 18AE44

Subject Name: MECHANISMS AND

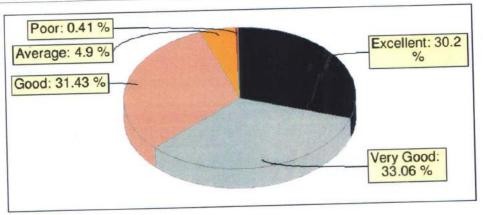
MACHINE THEORY

Department: Aeronautical

Engineering

Semester 4, Sec: A Date: 01 Jul 2020

No	Questions	Excellent	Very Good		Average	Poor	%	Average Score (5)
		5	4	3	2	1		
	CO						00.4	4
1	Understand the working of different mechanisms and related terminologies.	18	16	13	2	0	80.4	,
2	Apply the knowledge of velocity, acceleration and static force analysis of simple mechanisms by graphical method.	15	13	19	2	0	76.7	3.8
3	Analysis of spur gears and epicyclic gear trains.	12	21	12	3	1	76.3 .,	3.8
4	Solve the problems related to static and dynamic balancing of rotary and reciprocating masses.	14	15	18	2	0	76.7	3.8
5	Demonstrate the application of Porter and Hartnel Governors and understand the gyroscopic effect on aero plane.	15	. 16	15	3	0	77.6	3.9
	Total Count	74	81	77	12	1	77.6	3.86



Head of the Department of Aeronautical Engineering,

//angalore Institute of Technology & Engg., P.O. Mijar. Moodabidri - 574225

Mangalore, Karnataka



#### Mangalore Institute of Technology & Engineering

#### Badaga Mijar, Near Moodabidre, Karnataka Mangalore

Tel: 582 62695, Email: info@mite.ac.in Fax: 08262220064, Web: www.mite.ac.in

#### Course End Survey 2019-20

Batch: BE, 2017-2021

Staff Name: Ms Akhila Rupesh

Subject Code: 17AE61

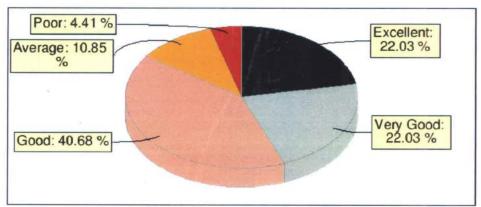
Subject Name: AERODYNAMICS - II

Department: Aeronautical

Engineering

Semester 6, Sec: A Date: 01 Jul 2020

No	Questions	Excellent	Very Good	Good	Average	Poor	%	Average Score (5)
		5	4	3	2	1		
	CO							
L	Interpret the concept of flow behavior over the finite aerodynamic bodies.	20	10	22	5	2	73.9	3.7
?	Acquire the knowledge of normal shock formation.	13	17	23	4	2	71.9	3.6
ļ.,	Acquire the knowledge of oblique shock and expansion wave formation.	11	11	28	6	3	67.1	3.4
1	Analyze the effects of compressibility and linearized flow over airfoils.	8	16	24	8	3	66.1	3.3
	Understand the concepts and techniques in high speed flow measurement.	13	11	23	9	3	67.5	3.4
	Total Count	65	65	120	32	13	69.3	3.48



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Fax: 08262220064, Web: www.mite.ac.in

#### EXIT\_FEEDBACK 2019-20

Batch: BE, 2016-2020

Department : Aeronautical

Engineering

Date: 31 Jul 2020

No	Questions	Excellent	Very Good	Good	Average	Poor	%	Average Score (5)
		5	4	3	2	1		
	Program Outcomes							
1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems	14	11	10	1	0	81.1	4.1
2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences	12	13	8	2	1	78.3	3.9
3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations	13	- 12	10	1	0	80.6	4
4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions	11	15	9	1	0	80	4
5	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations	12	12	9	3	0	78.3	3.9
6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice	12	13	10	1	0	80	4
7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development	12	13	9	2	0	79.4	4



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8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	14	12	7	2	1	80	4
9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings	14	14	6	2	0	82.2	4.1
10	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions	12	16	6	2	0	81.1	4.1
11	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments	16	. 11	8	1	0	83.3	4.2
12	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change	17	11	6	2	0	83.9	4.2
	Program Specific Outcomes							
1	Graduates will excel in their professional career in Aeronautical industry and research with highest professional and ethical standards to their activities by acquiring knowledge in basic engineering, mathematics, science and Aeronautical engineering.	13	10	5	1	0	67.8	4.2
2	Graduates will exhibit professionalism, team work in their chosen profession and adapt to current trends, technologies and industrial scenarios by pursuing lifelong learning.	11	11	6	1	0	66.1	4.1
	Total Count	183	174	109	22	2	78.7	4.1

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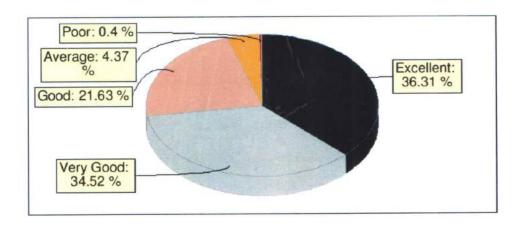
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