

REPORT OF

**A Report On  
Strategic Plan  
Initiative**

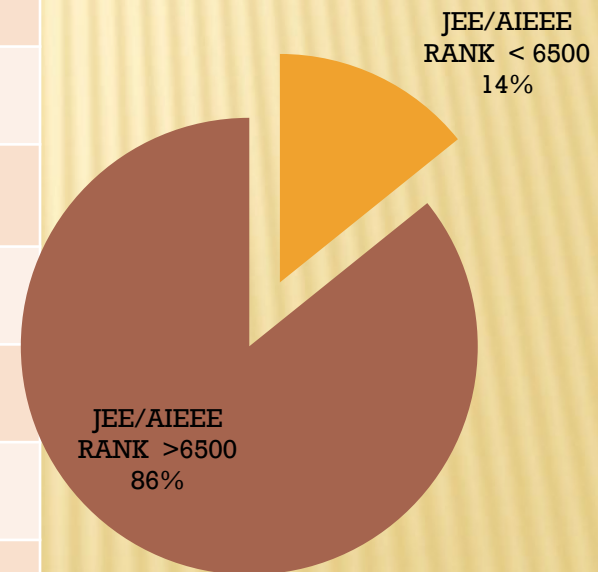
**ELECTRONICS & INSTRUMENTATION  
ENGINEERING DEPARTMENT**

# 1.A SOURCING OF STUDENT DETAILS

## 1 Quality of the Students

YEAR	JEE/AIEEE RANK	
	< 6500	>6500
1 <sup>st</sup> (2009-2013)	9	39
2 <sup>nd</sup> (2008-2012)	7	58
3 <sup>rd</sup> (2007-2011)	14	41
4 <sup>th</sup> (2006-2010)	3	61
<b>Overall 1(1<sup>st</sup> to 4<sup>th</sup> )</b>	<b>33</b>	<b>199</b>
<b>Overall (%age)</b>	<b>14.22</b>	<b>85.78</b>

### Quality of the Students ( All Years)



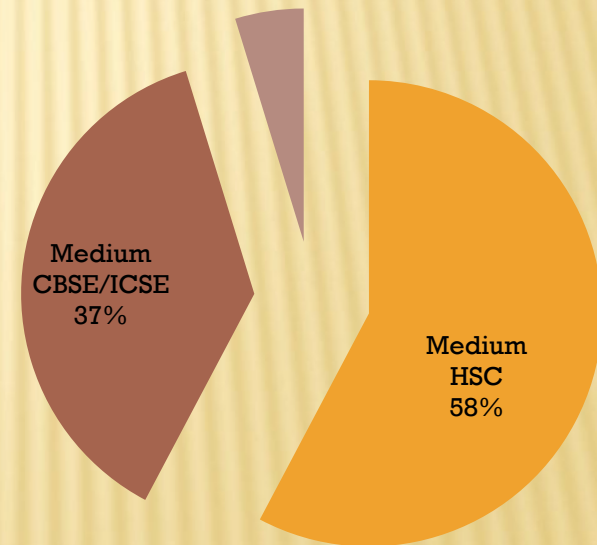
# 1.A SOURCING OF STUDENT DETAILS

## 2 Which medium they studied in the school

Year	Medium		
	HSC	CBSE/ICSE	Hindi Medium
1 <sup>st</sup> (2009-2013)	17	26	5
2 <sup>nd</sup> (2008-2012)	37	24	4
3 <sup>rd</sup> (2007-2011)	36	18	1
4 <sup>th</sup> (2006-2010)	44	19	1
<b>1<sup>st</sup> to 4<sup>th</sup> (Overall)</b>	<b>134</b>	<b>87</b>	<b>11</b>
<b>1<sup>st</sup> to 4<sup>th</sup> ( Overall in %age)</b>	<b>57.75%</b>	<b>37.5%</b>	<b>4.75%</b>

Medium  
Hindi  
Medium  
5%

### Student in the 10th standard

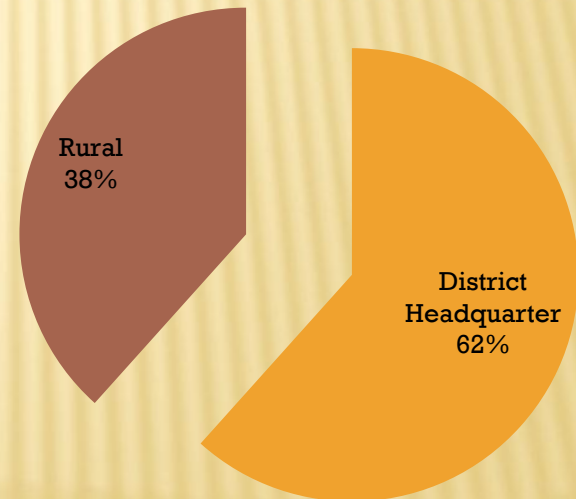


# 1.A SOURCING OF STUDENT DETAILS

## 3 Classification of students as district headquarter or rural

Year	District Headquarter	Rural
1 <sup>st</sup> (2009-2013)	28	20
2 <sup>nd</sup> (2008-2012)	42	19
3 <sup>rd</sup> (2007-2011)	37	21
4 <sup>th</sup> (2006-2010)	36	29
<b>1<sup>st</sup> to 4<sup>th</sup> (Overall)</b>	<b>143</b>	<b>89</b>
<b>1<sup>st</sup> to 4<sup>th</sup> (Overall in %age)</b>	<b>61.6%</b>	<b>38.4%</b>

**Place of Living**



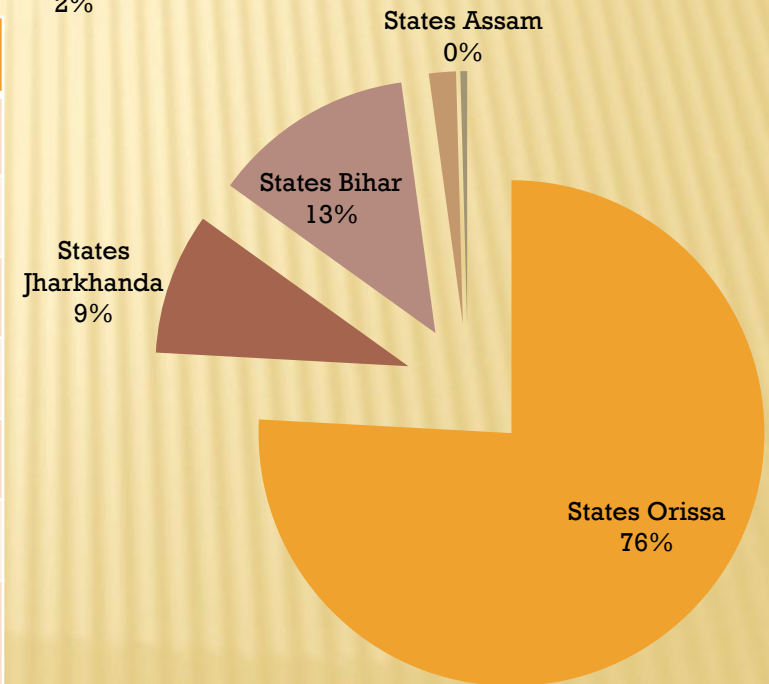
# 1.A SOURCING OF STUDENT DETAILS

## 4 States the students represent

Year	States				
	Orissa	Jharkhanda	Bihar	West Bengal	Assam
1 <sup>st</sup> (2009-2013)	21	11	13	2	1
2 <sup>nd</sup> (2008-2012)	54	3	4	2	0
3 <sup>rd</sup> (2007-2011)	50	2	6	0	0
4 <sup>th</sup> (2006-2010)	52	5	7	0	0
<b>1<sup>st</sup> to 4<sup>th</sup> (Overall)</b>	<b>176</b>	<b>21</b>	<b>30</b>	<b>4</b>	<b>1</b>
<b>1<sup>st</sup> to 4<sup>th</sup> (Overall in %age)</b>	<b>76%</b>	<b>9%</b>	<b>13%</b>	<b>1.7%</b>	<b>0.3%</b>

States West Bengal  
2%

### States of belonging

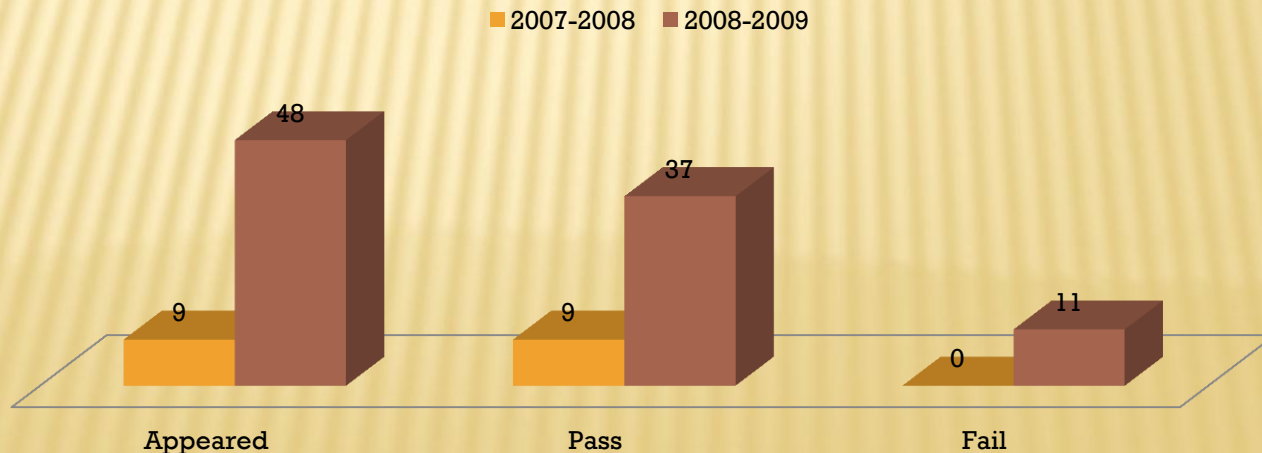


# 1.B THROUGHPUT

## 1 Pass percentage of the department in last 2 years

Year	Appeared	Pass	Fail	%age of pass
2007-2008	9	9	0	100
2008-2009	48	37	11	77
<b>Average pass %age in last two year</b>				<b>88.5%</b>

### Result Analysis



# 1.B THROUGHPUT

2 Faculty turn over :  $0/6=0\%$

3 Two subjects in which students fail most:

1) <b>Thermodynamics</b>	<b>Pass %age : 27.6</b>
2) <b>Physics – I</b>	<b>Pass %age : 36.2</b>
3) <b>Mathematics – III</b>	<b>Pass %age : 43.18</b>
4) <b>EEM</b>	<b>Pass %age : 46.0</b>

4 Phds or M.Tech/ total faculty :  $3/6=50\%$

Two Faculty are under QIP to IIT, Kharagpur & MNNIT, Allhabad

5 Number of International/National journal publication in last year: **NIL**

# 1.B THROUGHPUT

6 Number of Conference paper last Year:

**3 (International)**

**M. Hemalata Rao, “Design of Reconfigurable Switch Architecture for Next Generation Communication N/W,” *Proc. IEEE Conf. TENCON 2009, Singapore.***

**M K Naik, “EBFS-Fisher : An Efficient Algorithm for LDA-Based Face Recognition,” *Proc. IEEE Conf. 2009 World Congress on Nature & Biologically Inspired Computing (NaBIC 2009)*, pp. 1041- 1046.**

**M K Naik, “Information Fusion using Bacterial Foraging Strategy,” *Proc conf. 12<sup>th</sup> International Conf. on Information Technology (ICIT 2009)*, published in MGHill Professional ( ISBN-13: 978-0-07-068014-2).**

# 1.B THROUGHPUT

7 Number of students detained for attendance/ total students in last semester:

Semister	Number of Students/ Total Strength
1 <sup>st</sup>	2/48
3 <sup>rd</sup>	0/63
5 <sup>th</sup>	2/58
7 <sup>th</sup>	2/65
ALL	6/234

# 1.B THROUGHPUT

8 Number of students suspended/fined/dismissed/ total number of students last year:

Suspended/Fine : **7/234**

9 Placement:

Pass out Batch	No of Student Placed	Total Strength	%age
2008	6	9	66.7
2009	18	48	37.5
2010	2	63	3.2

# 1.C OUTPUT

## 1 Extra projects and courses

<b>Course/Project</b>	<b>No. of Students</b>
SAP	3
CCNA	2
PLC	37
VLSI	3
ALL Course	45/234

# 1.C OUTPUT

## 2 Participation in the external events :

<b>Events</b>	<b>No. of Students</b>
Paper Presentation	10
Gaming	1
Bike Racing	1
ALL Events	12/234

# 1.C OUTPUT

## 3 Participation in the Competitive Examination:

Examination	No. of Students
GATE	18
CAT	2
MAT	2
ALL Exam.	22/234

4 Students got more than 90% in Competitive Examination: **1 ( Soumiya Ranjan Mahapatra, 8<sup>th</sup> sem – 93.3%)**

Comparison with the  
benchmark

**ITER, BHUBANESWAR**

# 1.A SOURCING OF STUDENT DETAILS

		JITM		ITER	
1	Quality of the Students	JEE Rank	%age	JEE Rank	%age
		<6500	14.22	<6500 (Within 1500)	100
		>6500	85.78		
2	Vernacular Medium	HSC	57.75	HSC	30.0
		CBSE/ICSE	42.25	CBSE/ICSE	70.0

# 1.A SOURCING OF STUDENT DETAILS

		JITM		ITER	
3	Students form Districts Headquarters or Rural	Headquarters	61.6%	Headquarters	65%
		Rural	38.4%	Rural	35%
4	States from students are belongs	Orissa(1), Bihar(2), Jharkhanda(3), Wbangals(4), Assam(5)		Orissa(1), Jharkhanda(2), Bihar(3), Westbangals(4), Chatisgarh(5), Assam(6)	

# 1.B THROUGHPUT

		<b>JITM</b>	<b>ITER</b>
1	Pass Percentage	88.5%	98%
2	Faculty Turnover	0	0
3	Subject the students fail most	Thermodynamics(1), Physics-I(2), Mathematics-III(3), EEM(4)	NIL
4	PhD & MTech / Total Faculty	3/6=50%	13/24=54%
5	Journal Publication	0	4
6	Conference Papers	3	3

# 1.B THROUGHPUT

		JITM	ITER
7	Detained for Attendance	6	2
8	Students suspended/ fined/ dismissed	7	1
9	Placement (2009-10)	2/63=3.2%	52/60=86.6% (Core Company like: Vedanta Aluminum, Mahindra, TVS Motors etc, other company are Infosys, Wipro and TCS etc.
10	Professional Course Certification	1(PLC)	1(PCB Design)

# 1.C OUTPUT

		<b>JITM</b>	<b>ITER</b>
1	Extra Projects/ Courses	45/234	Data NA (They provide course on MATLAB and PCB Design)
2	External Events	12/234	-NA-
3	Competitive Exam Qualified	GATE-1	GATE-2 GRE-4
4	More than 90% in GATE	GATE-1	GATE-2

# EXTRA COMPARISON

		JITM	ITER
1	Programme	BTech	BTech, MTech
2	Students Intake Capacity	BTech – 60	BTech – 60/120/240 Mtech – 18
3	Labs	Sensors & Signal Lab Measurement Lab Process Control Lab	Sensor & Signal Lab Measurement Lab Process Control Lab VLSI Lab Microprocessor Lab <b>Going to.....</b> Virtual Instrumentation Lab Embedded System Lab
4	Attendance System	75% 65% + Medical Certificate	75% 65% + Medical Certificate

# ALUMNI KNOWN TO THE DEPARTMENT

Pass out Year	No. of alumni we know	Total strength in that year	%age
2007	10	13	77%
2008	5	9	56%
2009	13	48	27%

# NEW EMERGING TECHNOLOGY

## ✦ Technology:

- 1 SCADA
- 2 VLSI and Embedded System
- 4 Biomedical Instrumentation
- 5 Virtual Instrumentation
- 6 Image Processing

## ❖ The Department required to focus:

- 1 SCADA
- 2 VLSI
- 3 LAB VIEW

**Note:** ( For SCADA & LAB View, we are already take initiative, and applied to AICTE in MODROB scheme in the name of “**Virtual Instrumentation Lab**” for grant of 24 Lacks)

# STRENGTHS

---

- 1 Active and Hardworking faculty.

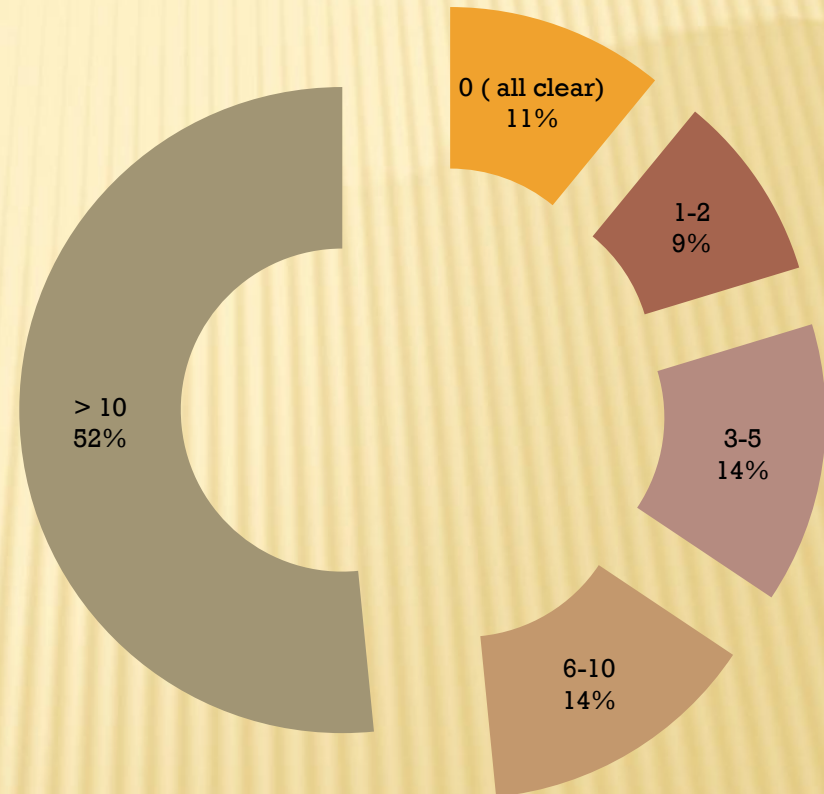
# WEAKNESS

---

- 1 Lack of good rank holders
- 2 Lack of placement
- 3 Labs are not equipped beyond the curriculum
- 4 Not a single professor is present in the department to guide the young team, specialized in the Instrumentation.

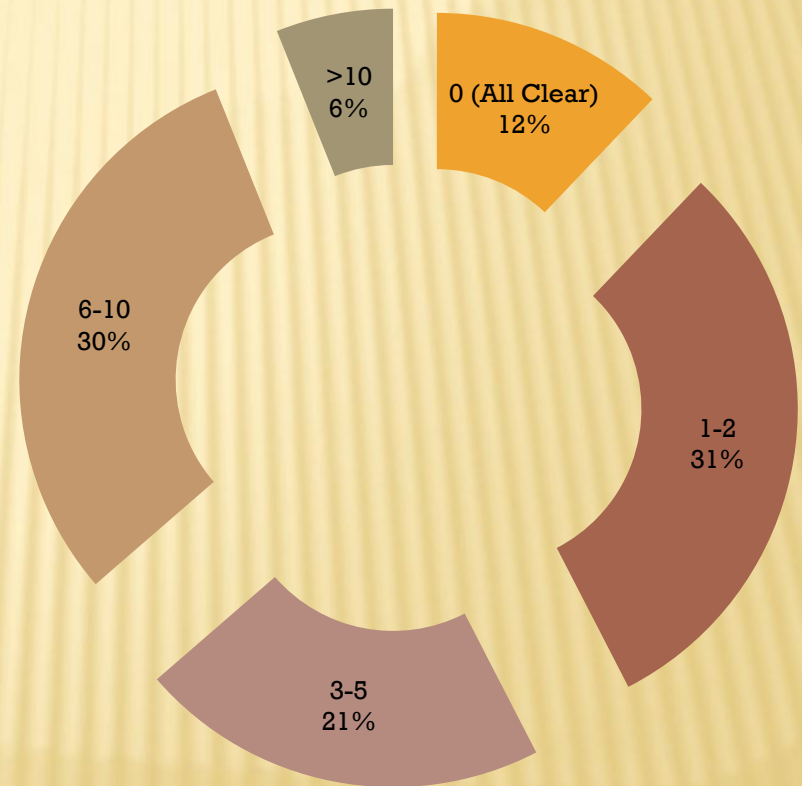
# RESULT ANALYSIS OF THE 2007-2011 BATCH

No of Backlogs till 5 <sup>th</sup> semester	No of Students having the backlog
0 ( all clear)	7
1-2	6
3-5	9
6-10	9
➤10	33



# RESULT ANALYSIS OF THE 2008-2012 BATCH

No of Backlogs till 3 <sup>rd</sup> semester	No of Students having the backlog
0 (All Clear)	8
1-2	20
3-5	14
6-10	20
>10	4



# OPPORTUNITIES

---

- 1 Placement
- 2 Good Students, that means good rank holder students.
- 3 Modernize the labs

( Note: The first two points are interrelated to each other and vive-versa, so we have to give the focus on these two as primary and side by side the labs also to be modernize)

---

**Thank You**