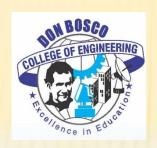
## Don Bosco College of Engineering





**Mechanical Engineering Department** 



## Introduction

- **Department** is in the forefront of promoting **Industry Institute Interaction** by collaborative workshops, seminars, experts talks, field visits etc.
- Qualified & experienced faculty from Design,
   Manufacturing, Automation & Industrial Engineering
   with average experience of around 10 years
- Emphasis on development of practical skills to make students
   employable & industry ready
- **×** Tie up with **local industries & Govt. organizations**



## **Mechanical Engineering Department**

i) Human Resources

Sr. No.	Name	Qualification	Exp. (Years)	<b>Design</b> ation	Area	Publions	icati
						Int.	Nat.
1	Ajit Salunke	M.Tech. (Computer Integrated Manufacturing), P.G.D.H.R.M, Dip.(T&D) PhD (Pursuing)	14	HOD Asst. Prof.	Automation CAD/CAM & Robotics	12	1
2	Madhukar Raikar	M.E. (Industrial Engineering)	38	Asst. Prof.	Industrial Engineering		
3	Dr. Praveen Verekar	M.E. (Machine Design) PhD (Fluid Mechanics)	28	Asst. Prof	Machine Design & Fluid Mechanics	2	
4	Suraj Marathe	B. E. (Mechanical) M.E. (Industrial Engineering) PhD (Pursuing)	13	Asst. Prof	Automation, Reliabity & Maintenance	1	
5	Avil Da Sa	M.Tech. (Machine Design)	04	Asst. Prof	Vibrations, Machine Design, Tribology		
6	Sachin T. Turi	<b>B.E</b> (Mechanical ) <b>M.E</b> (Manufacturing  Engineering & Automation)	09	Asst. Prof.	Automation & Supply Chain Management		

## **Human Resources**

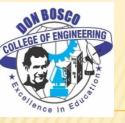
Qualification

Sr.	Name	Qualification	Exp.	Design	Area
No.			(Years)	ation	
7	Shreeshail	M.Tech (Computer	01	Asst.	Manufacturing
	Yalagatti	Integrated		Prof	Process, CAD/CAM
		Manufacturing)			
8	Sanjeel	M.Tech (Product design	01	Asst.	Rapid prototyping,
	Naik	and Manufacturing.)		Prof	product design &
					development
9	Shreyas	B.E. (Mechanical)	01	Asst.	Industrial Engg.
	Dhond			Prof	Engg. graphics
10	Amey	B.E. (Mechanical)	01	Asst.	FEM,
	Chodankar			Prof	Nanotechnology
11	Prashant	B.E. (Mechanical),	02	Asst.	Industrial Engg.
	Missal	M.E. (Industrial Engg.),		Prof	Engg. graphics
		Pursuing			
12	Chetan	M.Tech (Machine	01	Asst.	Noise and
	Gaonkar	Design)		Prof	Vibrations,
					Mechanics of Solids



## **Human Resources (Technical Staff)**

Sr. No.	Name	Qualification	Designation
1	Joyston A. Menezes	Diploma in Automobile Engg.	Laboratory Assistant
2	Joel Fernandes	I.T.I. (Machinist)	Workshop Instructor
3	Joseph Dias	I.T.I. (Inst Mechanic)	Instrument Mechanic
4	Dattaguru M Sawardekar	Diploma in Automobile Engg.	Laboratory Assistant
5	Arun P. Sail	Diploma in Mechanical Engg.	Laboratory Assistant
6	Peter Fernandes	I.T.I. (Machinist)	Workshop Instructor



## ii) Laboratories

Workshop

CAM

Mastercam

#### Total Investment: Rs 7800000/-

- **×** IC Engines
- Theory of Machines
- **×** Heat & Transfer
- **×** Hydraulic Machines
- Refrigeration & Air conditioning
- **\*** Mechatronics
- Metrology
- × CAD/CAM
- **x** Automobile

#### **Softwares** (Inv. Rs. 1200000/-)

**Engineering Analysis** 

× ANSYS

CFX/ Fluent

Solid Modelling

- \* Autocad & Autodesk Inventor
- × Solidworks

**Graphical Programming** 

\* LabVIEW







## **Major Achievements**

- i) DBCE Mech. students topped in the Goa University 6<sup>th</sup> Semester exams of May/June 2014
- Kedar Acharya- 1<sup>st</sup>
- ♦ Suhail Khan 2<sup>nd</sup>

ii) Industry Institute Interaction-

**Strong Connect** with Major Industries of Goa (*Turbocam*, *Sesa Sterlite*, *Syngenta*, *Zuari*, *Putzmeister*, *EME Automation etc.*, *Techforce Composites*, *MRF* etc.

iii) Don Bosco HR Summit- First of its kind event by any institution in Goa

iv) 1 One Week Short Term Training Programs approved by Indian Society for Technical Education



1

**Process control**"

"Condition Monitoring of

"Condition Monitoring of

**Rotating Machines**"

**Rotating Machines**"

(March 2014)

(Jan 2015)

(Jan 2014)

# **Industry – Institute Interaction**

i) Corporate		i) Corporate	e Training Programs			
Sl. No.	Topics		Resource Persons	Collaborating Industy	Participa Industrie	

Etcolle	i) Corporate Training Programs				
Sl. No.	Topics		Resource Persons	Collaborating Industy	Participa Industric
	"Indus	trial Automation &			1

i) Corporate Training Programs				
).	Topics	Resource Persons	Collaborating Industy	Participating Industries/Institute
	"Industrial Automation	& - Prof. Ajit Salunke		EMerk, Zuari, Essel

- Prof. Devendra Sutar (GEC)

- Mr. Sandeep Mone (Autotech)

- Dr. S. L. Gombi, Professor, GIT,

- Mr. Suryakant Gawde (Asoka

- Dr. S. L. Gombi, Professor, GIT,

- Dr. Suraj Rane, Professor, GEC

- Prof. Shailesh Khanolkar (Assoc.

- Mr. Nilesh Desai, DGM

(Maintenance, Zuari),

- Prof. Shailesh Khanolkar (Assoc.

Belgaum

Bearings)

Belgaum

*Professor*, *PCCE*)

Professor, PCCE)

Syngenta

Asoka Bearing

**Asoka Bearing** 

Propack, Cartini,

Commscope, AITD, GEC

Sesa Sterlite, ISHRAE,

Sesa Sterlite, ISHRAE,

Essel Propack, Zarhak

IFB, PCCE, AITD

Moulders, Commscoppe,

JSW, EL Steel, Park

Hyatt, PCCE, IMS

## ating ies/Institute

## **Corporate Training Programs**









## **Industry - Institute Interaction**

### ii) Don Bosco HR Summit- 2015

- Around 150 participants (Industry Professionals, Educationists, faculty & students of DBCE)
- Organised in collaboration with Turbocam Inda Pvt. Ltd.
  - Co sponsors-Putzmeister, Concrete Machines, Syngenta, Bank of India, Jimcap Electronics Pvt. Ltd., EME Automation and Monginis

Key Note Speaker & Chief Guest: Prof. Jose Noronha, Chairman, Goa State Pollution Control Board

Guests of Honor: Mr. George Ninan, Chief General Manager (Human Resources), Zuari Agro Chemicals Ltd.,

Mr. Satish Bhat, Managing Director, EDC Ltd.

Mr. Prashant Shinde, President, Verna Industrial Association

Speakers: Dr. Pramod Pathak, Member Secretary, GEDA,

Mr. Blaise Costabir, Managing Director, Zarhak Moulders &

Mr. Hillary D'Souza, Educationist

## **Don Bosco HR Summitt-2015**











Vedanta Taksasila

## **Industry - Institute Interaction**

	III) Collaborative	III) Collaborative Programs for Students (Engg. Colleges &				
Polytechnics of Goa)						
Sr. No.	<b>Event Name</b>	Collaborating Organization	Resource Person			
2013	& 14					
1	1 Day Workshop on "Six Sigma"	DBtech	Dr. Suraj Rane (PCCE) Mr. Neil Pinto & Mr. Vaibhav Vellinkar (Crompton Greaves)			
	2 Days workshop on "Industrial Automation &	Sungenta India	Prof Aiit Salunke Prof Mr Devendra Sutar (CFC			

			Greaves)
2	2 Days workshop on "Industrial Automation & Process control" (3 Batches)	Syngenta India Pvt. Ltd.	Prof. Ajit Salunke , Prof. Mr. Devendra Sutar (GEC) , Mr. Sandeep Mone (Autotech)
	2 Days Workshop on "		Mr. Nilesh Desai,, (DGM- Mainatainence, Zuari) Mr. Sandeen Divkar & Mr. Milind Sardesai

2	Process control" (3 Batches)	Pvt. Ltd.	, Mr. Sandeep Mone (Autotech)
3	2 Days Workshop on " Maintenance Engineering"	Techfree Composites	Mr. Nilesh Desai,, (DGM- Mainatainence, Zuari) Mr.Sandeep Divkar & Mr. Milind Sardesai (Fomento,), Prof Suraj Marathe etc. Res. Pers from MRF, Crompton
	1 Day Workshop on	Inchestorate of	Mr. Nondan Cawailtan Dr. Caunaltan

	Engineering"	•	MRF, Crompton
4	1 Day Workshop on "Industrial safety"	Inspectorate of Boilers	Mr. Nandan Sawaikar , Dr. Gaunekar
5	1 Day Workshop on "CNC"	Tubocam India Pvt. Ltd.	Mr. Sheldon & Mr. Ameya Shirodkar (Turbocam) Ajit Salunke , Avil D' Sa , Suraj Marathe
			Mr. Avdoot Borkar, Head- Maintenance,

Operation) etc

Seas Sterlite Ltd.

Mr. K V. Kulkarni, Associate GM (Environment),

Mr. Shrishaila Gouda, Associate GM (Mining

















# Industry – Institute Interaction Expert Talks by Industry Professionals

IIIIIII		
Sl. No.	Topic	Name
1	3D Printing The Future	Mr. Deelip Menezes, MD, 3D Systems India
2	"Rotamoulding"	Mr. Blaisse Costabir, MD, Zarhak Moulders
3	"Vibration of rotating machines"	Mr. Suryakant Gawde, Certified Vibration Tester (USA)
4	"DCS/SCADA"	Mr. Nilkant Panandikar, Zuari Industries
5	"Finite Element analysis", Industrial Perspective	<b>Dr. Tansen Chawduri</b> , CEO, Fluid Controls Pvt. Ltd., Pune

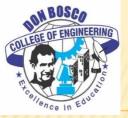




## **Industry Institute Interaction**

#### V) Top Executives visited the Campus & Graced Several Occasions

- \* RAdm (Retd) Shekhar Mital NM ,Chairman & Managing Director, Goa Shipyard Ltd.
- \* Mr. Wilfried Thiessen, MD , Putzmeister Concrete Machines Pvt. Ltd.
- \* Mr. Savio Carvalho, Director, Turbocam India Pvt. Ltd.
- \* Mr. A. N. Joshi, Vice President( Corporate Affairs), Sesa Sterlite Ltd.
- **❖ Mr. Krishnamurthi**, MD, ACGL
- \* Mr. James Kurian, Director, Cartini India Ltd.
- \* Mr. P. M. Johri, Chief General Manger(Pers. & Admin), Goa Shipyard Ltd
- \* Mr. Michael Gracias, Senior General Manager, MRF Ltd
- \* Mr. Dileep Menezes, MD, 3 D Systems India
- \* Mr. Sachin Mirajkar, Plant Head, Netzsch
- \* Mr. Dileep Naik, CEO, Techforce
- \* Dr.Tansen Chowdury, CEO Fluid Controls Pvt. Ltd., Pune
- \* Mr. Nilesh Desai, DGM (Maintainence, Zuari)
- \* Mr. Deepak Arzare, Sr Scientific Officer( Dept. of Atomic Energy Indore )



## **ISTE Workshop**

Computer Applications in Design & Manufacturing" in collaboration with Turbocam India Pvt. Ltd & Putzmeister Concrete Machines Pvt. Ltd.

#### Resource Persons

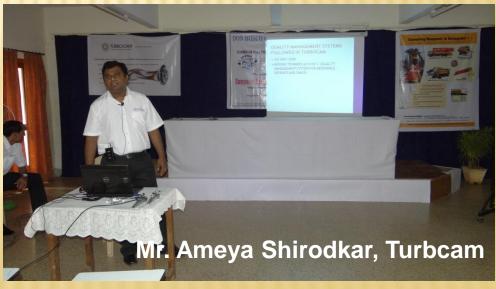
- > Dr. Rajesh Prabhu Goankar (HOD-Mech., GEC)
- > **Dr. Mohan Kumar** (*Principal*, *SDMCET*, *Dharwad*)
- > **Dr. A. S. Deshpande** (Principal, GIT, Belgaum)
- > Dr. U. N. Chatte
- > Dr. Venketash Kamat (Goa University)
- ➤ **Deelip Menezes** (MD, 3D Systems India)
- > Mr. Sheldon & Mr. Ameya Shirodkar (Turbocam)
- > SunilKumar Honnugur (SDM College of Engineering & Technology, Dharwad)
- **▶ Prof. Govind Kunkolienkar**, Professor (GEC)
- Prof. Ajit Salunke (DBCE)
- Prof. Avil D' Sa (DBCE)
- Suraj Marathe (DBCE)
- Prof. Devandra Sutar (DBCE)
- Mr. Sandeep Mone (Autotech, Mapusa)

#### ISTE STTP on "Computer Applications in Design & Manufacturing



















## **Major Highlights**

- i) An Audit course in **Maintenance Engineering** (*Practical*) is introduced for 6<sup>th</sup> sem by Mech. Dept. with Lectures by industry experts
- ii) Full Fledged Workshop spanningaround 500 sq m
- iii) One Month Internship trainingin Third Year
- iv)Automobile Laboratory







**Year 2014** 

1

1

Second Year

Third Year

Second Year

Third Year

Final Year

## v) Field/Industrial Visits (Mechanical)

Putzmeister Concrete Machines Pvt. Ltd. Verna, Astra Metal, Verna & Goa

Skytouch Gadge, Karkera Powerr, Omsangam Packaging & Polyfilm

my collence in Educ		
Sr. No.	Class	Industry Visited

Zarak Moulders, Netzsch Verna, MRF Ltd.

Techforce, Zarak Moulders, Netzsch

Chowgule Industries, ACGL, Varun Beverages

Turbocam India Pvt. Ltd, Essel Propack, Sesa Sterlite Mines

Ore Carriers Shipyard, Rasaim, Varun Beverages

## Year 2013

Canacona







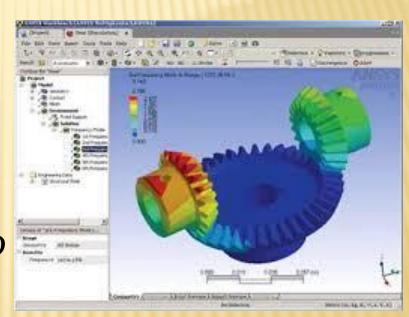


## vi) Consultancy services

#### Dept. offers services in

Manufacturing, NDT

- >Training in
- Automation, (PLCs & Hydraulics/Pneumatics Virtual Instrumentation)
- CAD/CAM.
   (Solidworks/AUTOCAD FEM/CFD Analysis with ANSYS/CFX)
- Condition Monitoring





## Other Workshops/ Seminars

#### **Year 2013**

S. No	Event Name	Resource Person
1	2 Days Workshop on "Industrial Automation"	Prof. Ajit Salunke, Mr. Sandeep Mone,
		Prof. Devandra Sutar (GEC)
2	1 day workshop- "Electrical Engineering-	Mr. sandeep Phadke (Ex. Mgr- Zuari)
	Institute to Industry"	
3	2 Days Workshop on "Solid Modeling"	Prof. Avil D'Sa, Prof. Ajit Salunke
4	1 day workshop on "Fire safety"	Personnel from Directorate of Fire safety





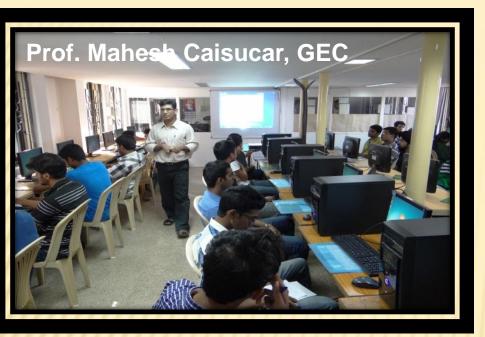
## Other Workshops/ Seminars

Year 2014

S. No	Event Name	Resource Person
1	2 Days Workshop on "Industrial Automation"	Prof. Ajit Salunke, Mr. Sandeep Mone, Prof. Devandra Sutar (GEC)
2	1 day workshop- "Electrical Engineering- Institute to Industry"	Mr. sandeep Phadke (Ex. Mgr- Zuari)
3	2 Days Workshop on "Solid Modeling"	Prof. Ajit Salunke, Prof. Avil D'Sa
4	1 day workshop on "AUTOCAD"	Mr. Avil D'Sa
5	1 day workshop on "Programmable Logic Controllers"	Prof. Devendra Sutar (GEC)

2 Days Workshop on "Maintenance Engineering" Prof, Suraj Marathe, Shreyas Dhond (2 Batches)

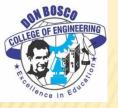
2 Days Workshop on "CATIA" (2 Batches) Mr. Avil D'Sa











## **Special Initiatives by Faculty & Depts.**

- \* Prof. Pravin K. Verekar completed PhD from IISc Bangalore in Fluid Mechanics.
- Prof. Ajit Salunke delivered talks on "Virtual Instrumentation in Automation" at SDMCET Dharwad, Agnel Polytechnic & conducted a one day workshop on "Labview & Applications" at GIT
- Prof. Suraj Marathe & Prof. Ajit Salunke registered for Phd at Don Bosco University Assam
- \* **Prof. Suraj Marathe** completed the Phd course work
- Prof. Ajit Salunke presented paper at International conference in Thakur College of Engineering Bombay
- \* Prof. Ajit Salunke is invited to conduct workshop on "Labview & Applications" at Govt. Polytechnic Bicholim



## **ISHRAE Chapter**

Students Chapter of
Indian Society of
Heating, Refrigerating &
Air Conditioning
Engineers Installed on 12<sup>th</sup>
Feb 2014

Mr. **Deepak Arzare**, *Sr Scientific Officer( Dept. of Atomic Energy Indore*) was
the resource person for
Technical Event on 16<sup>th</sup> Aug
2014





COLLEGE OF ENGINEERING		Faculty Development Programs				
Sr. No.	Faculty Name	Workshop/Seminar	Date	Duratio n	Organization	
	Ajit	Workshop on "Applications of Machine Vision	15th to 16th March 2013	2 days	Vellore Institute of Technology	
1	Salunke	Faculty development Programme	20th July 2013	1 day	DBCE, Fatorda	
		Transforming Education		1 day	Don Bosco Benaulim	
		ISTE STTP on "Smart Systems"	25th - 29th Nov. 2013	1 Week	IIT Chennai	
		Accreditation Process	21/11/2013	1 day	DBCE, Fatorda	

23rd Dec 2013

4<sup>th</sup> & 5<sup>th</sup> April

13<sup>th</sup> - 18<sup>th</sup> Nov 1 week

2014

2014

1 day

2 days

Panjim

Sri Sri Inst. Of

Management

studies, Borda

IIT Chennai

"IFICCI India Innovation Growth Programme

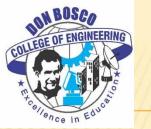
ISTE STTP on "Mechatronics & Automation

2014"

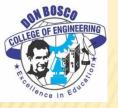
"Research Methodology"



cellence in Educ						
Sr. No.	Faculty Name	Workshop/Seminar	Date	Duration	Organization	
5	M. N. Raikar	Faculty development Programme	1 day	20th July 2013	DBCE, Faotrda	
		Accreditation Process	21/11/2013	1 day	DBCE, Fatorda	
6	Pravin Verekar	Faculty Development Programme	20/7/2013	1 day	DBCE, Fatorda	
		Condition Monitoring of rotating machines	29/3/14	1 day	DBCE	
		Accreditation Process	21/11/2013	1 day	DBCE, Fatorda	
7	Suraj Marathe	Industrial Applications of Mechatronics	2 Weeks	16th to 29th Dec 2013	Agnel Polytechnic	
		Accreditation Process	21/11/2013	1 day	DBCE, Fatorda	
		"Research Methodology"	4th & 5th April 2014	2 days	Sri Sri Inst. Of Management studies, Borda	
		"Concepts and Advances in Quality & Reliability Management"	17-28th November 2014	2 days	GEC	
		**********		*****		



Sr. No.	Faculty Name	Workshop/Seminar	Date	Duration	Organization
9	Avil DSa	Finite Element Method	10/1/2014	1 day	PCCE, Verna
		Accreditation Process	21/11/2013	1 day	DBCE, Fatorda
		Condition Monitoring of rotating machines	29/3/14	1 day	DBCE
10	Shreyas Dhond	Finite Element Method	10/1/2014	1 day	PCCE, Verna
		Accreditation Process	21/11/2013	1 day	DBCE, Fatorda
		Condition Monitoring of rotating machines	29/3/14	1 day	DBCE



## **Mechanical Engineering- MESH**

\* Council for the year **2014-215** installed on 23/8/14 by Mr. Krishnamurthi, MD, ACGL. Mr. Gajanan Porob, HR Manager, Varun Bevearges was the Guest of Honor.

Mr. Krishnamurthi also offered job placements to meritorious students

Mesh event was held on 18/10/14.

Inaugurated by **Mr. James Kurian**, *Director*, *Cartini India Ltd*. **RAdm (Retd) Shekhar Mital NM**, *Chairman & Managing Director*, *Goa Shipyard Ltd. was the Chief Guest for Valedictory function*.

Catapult Designing Competition Car Modelling, Technical Paper Presentations, quiz automotive Sketching Workshop organized











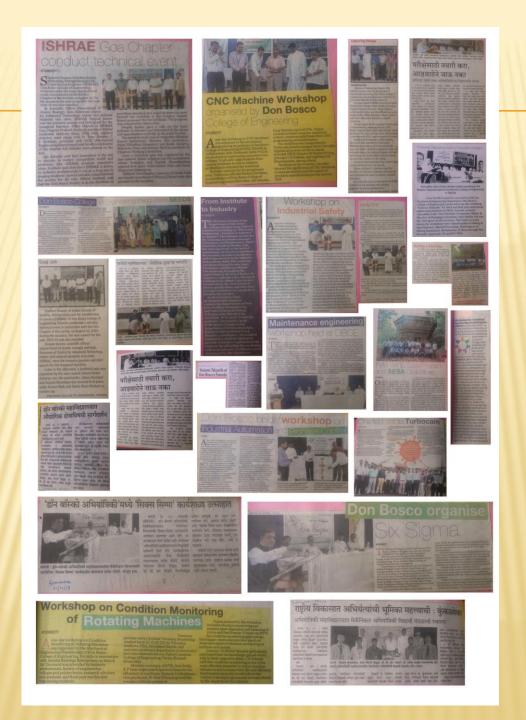
### **Students Achievements**

#### **×** Techyon-2013, PCCE, Verna

Catapault Design: 1<sup>st</sup> Place, Sujay Shirodkar, Leny Cardozo, Shoukan Teli, Saidatt Kamat (Mech.)

**Technical Quiz: 1<sup>st</sup> Place:** Suhail Khan, Vidish Shetye, Shubham Pathania









## **Future Initiatives**

- **CNC Production & Training Cell**
- Entrepreneurship Development Cell in association with CIBA in January 2015
- > Two days Workshop on "Industrial Automation" for Industry Professionals in April 2015
- > Two days Workshop on "Solidworks" for Industry Professionals in May 2015
- Project Exhibition in July 2015
- > International Conference on "Recent Trends in Engineering, Science & Mathematics in January 2016
- ➤ ISTE Workshop on "Computer Aided Engineering Analysis" in December 2015