

**Dr. MAHALINGAM** COLLEGE OF ENGINEERING AND TECHNOLOGY An Autonomous Institution Affiliated to Anna University, Chennai. Approved by AICTE. Accredited by NBA and NAAC with Grade A Udumalai Road, Pollachi - 642 003. Tamilnadu.

# Department of Mechanical Engineering

# NEWSLETTER

# 2012-2013



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### VISION AND MISSION OF THE DEPARTMENT

# **Vision**:

To transform students from rural background into professional leaders of tomorrow in the field of Mechanical Engineering with a strong sense of social commitment.

#### **Mission**:

To impart quality – engineering education leading to specialization in the emerging areas of CAD/CAM/CAE, Energy Engineering and Materials Technology

To provide continually updated and intellectually stimulating environment to pursue research and consultancy activities

### Programme Educational Objectives (PEOs)

The graduates will:

**PEO1.** Technical Expertise: Actively apply technical and professional skills in engineering practices towards the progress of the organization in competitive and dynamic environment.

**PEO2.** Lifelong Learning: Own their professional and personal development by continuous learning and apply the learning at work to create new knowledge.

**PEO3.** Ethical Knowledge: Conduct themselves in a responsible, professional and ethical manner supporting sustainable economic development which enhances the quality of life.

### Programme Outcomes (POs)

At the end of the Mechanical Engineering programme, graduating students / graduates will be able to:

PO1. Engineering knowledge: Apply the fundamental knowledge of mathematics and engineering sciences to solve of mechanical engineering problems.

PO2. Problem analysis: Identify, survey literature, formulate and analyze complex mechanical engineering problems and reach substantiated conclusions.

**PO3.** Design/development of solutions: Design mechanical components, processes and systems that meet the requirements with due consideration for environment and public health / safety including cultural and societal considerations.

PO4. Conduct investigations of complex problems: Design experiments analyze/interpret data and synthesize information to provide valid conclusions in the field of mechanical engineering.

PO5. Modern tool usage: Apply appropriate techniques including usage of IT tools for prediction and modelling to create and evaluate mechanical engineering systems and their limitations.

PO6. The engineer and society: Practice as professional mechanical engineer to discharge responsibilities by taking informed decisions based on contextual knowledge to assess societal, health, safety, legal and cultural issues.

PO7. Environment and sustainability: Demonstrate the knowledge of, and need for sustainable development by understanding the impact of the professional engineering solutions in societal and environmental contexts.

PO8. Ethics: Comply with code of conduct/norms and professional ethics in engineering practices.

PO9. Individual and team work: Perform effectively as an individual and member / leader in multidisciplinary diverse teams.

PO10. Communication: Effectively communicate both orally / written on complex engineering activities.

PO11. Project management and finance: Manage projects in multidisciplinary environments cost effectively.

PO12. Life-long learning: Learn and acquire up to date knowledge in the field of mechanical engineering independently.

# **JANUARY 2013**

### Participation in Seminar/Conference/Workshop/Training etc

Dept.	Name of the Faculty with Designation	Details of Program	Place of Program	Date
Mech	T.Kasirajan Assistant professor	Faculty development program	Sri Sakthi Institute of Tech,CBE	21.1.13- 25.1.13
Mech	D.Shanmugam Assistant professor	Workshop on Applied design of experiments for engineers	BIT	4.1.13- 5.1.13

### Professional Society/Department Association/Guest Lectures organized

Dept.	Co-ordinator / Co-coordinator with Designation	Details of Program	Date
Mech. Engg.	M.Selva Kumar Assistant Professor Dr. Rama Thirumurugan Associate Professor	Potenza-intra college symposium	31-01-13

#### Paper Presentation by the Students

S.No	Student's Name	Branch and Department	Title of Paper Presented	Organizer and Place of program	Date
1	M.Venkatesh Kumar		Magnetic levitated wind		
2	S.Prasanna Kumar	III-B Mechanical	turbine (2 <sup>nd</sup> price)	KCT, Coimbatore	5-1-13

# Participation of Inter and Intra Collegiate Competition/Events by the Students

S.No	Student's Name	Branch and	Details of event & Prize if any	Organizer and	Date
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		Department		Place of program	
1	R.Raj Kamal				
2	J.Pradeesh Kumar				
3	V.Srivikram		Potenza- Drag Race		31-01-13
4	V.Pattatarasan	III-B		Dr.MCET, Pollachi	
5	P.Tamaraiselavan				
6	A.Suresh	Mechanical			51 01 15
7	P.Tamaraiselvan				
8	R.Praveen Kumar		Potenza- Scarps Sculpture		
9	G.Suriyaraj				
10	B.Vibin				

# Participation in Seminar/Conference/Workshop/Training etc...

S.No	Student's Name	Branch and Department	Details of event & Prize if any	Organizer and Place of program	Date
1	R.Raj Kamal				
2	J.Pradeesh Kumar				
3	V.Srivikram		Potenza- Drag Race		
4	V.Pattatarasan				
5	P.Tamaraiselavan	III-B		Dr.MCET,	31-01-13
6	A.Suresh	Mechanical Potenza- Scarps Sculpture		Pollachi	51 01 15
7	P.Tamaraiselvan				
8	R.Praveen Kumar				
9	G.Suriyaraj				
10	B.Vibin				
11	Aakash N C	II.A Mechanical	Workshop on Automobile Designing ,using reverse engineering	Meta wing Enterprise and IIT , Mumbai	4-01-13 & 5-01-13
12	Siva selvam.S	II.B Mechanical	Workshop on Automobile Designing, using reverse engineering	Meta wing Enterprise and IIT , Mumbai	4-01-13 & 5-01-13
13	Suhailahamed.S	II.B Mechanical	Workshop on Automobile Designing, using reverse engineering	Meta wing Enterprise and IIT , Mumbai	4-01-13 & 5-01-13
14	Sri Vishnuvardhan.S	II.B Mechanical	Workshop on Automobile Designing, using reverse engineering	Meta wing Enterprise and IIT , Mumbai	4-01-13 & 5-01-13

### In-Plant Training by the Students

Dept.	Student Name / Total No. of Students & Branch		Place of In-plant Training	Period of Training Date(s)
II.A Mechanical	Aswin S Hariharan J Infant Praveen S Arun Karthik R	4	Tamil Nadu State Transport corporation (Coimbatore) Ltd	23-12-12 to 01-01-13
II.A Mechanical	Baranidharan P S	1	Tamil Nadu State Transport corporation (Coimbatore) Ltd, Sungam Branch	24-12-12 to 28-12-12
II.A Mechanical	Loganathan P Jagan K Gokulraj S Logesh Krishnan K Mohammed Farook N	5	Tamil Nadu State Transport corporation (Coimbatore) Ltd, pollachi branch	26-12-12 to 07-01-13

# Extra-Curricular / Co-curricular Activities

### Physical Education Activities

S.No	Students Name	Year & Dept.	Events Details	Awards / Medals (if any)	Date of the Event
1 2	C.Gokul Prasad A.Thanga durai	IV MECH III MECH	COVAI VIZHA CRICKET		24.1.13
3	G.surender	II MECH	TOURNAMENT		

### NCC Activities

Name of the	Degree	Branch	Programmes Organized /	Venue	Date (s)
Students	Studying	branen	Conducted / Participated	Verlae	

Karthik.R Manikandan.R Selvaraj.S Ponmukilan.R Nithyanandan.S Vibin.B Prabhakaran.C Ganesh kumar.V Vasanthakumar Santhosh.S Kumaresh.V	IV YR III YR II YR	BE MECH	Republic day parade	Dr.MCET	24.1.13
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# NSS Activities

Name of the Students	Degree Studying	Branch	Programmes Organized / Conducted / Participated	Venue	Date (s)
Abdul Shiyam AAmarnath TBaranidharan P SBoopathiraj PGopalsamy RGopalsamy RGurunathan SInfant Praveen SKaarventhan TKannan JManokar AMathiazhagan MNirmal kumar.RPavithran.K.CV.PrabhudevaRajprasad K.RanjithSabariSelvarajSubashWinston Roy	II B.E	Mechanical	NSS Camp , Dr MCET	Negamam	30-01-13 to 05-02-13

# Consultancy

Dont	Name of the Docio	Decignation	Title of the	Name of the	Period of C	onsultancy
Dept.	Faculty (s)	Designation	Consultancy	organization / Firm/	From	То

			Work	Company		
Dr Rama	Associate professor	Fatigue test on (i)M200 –Braking force test LH and RH (ii) M200 – Control arm LH and RH		3-1-13	18-1-2013	
Mechanica I Engg.	Mr	Senior executive AP(SS) Technical asst	Impact test on (i) Yp8 LH and RH	Sakthi auto components Ltd Pallagovendanpalayam	12-1-13	
			Steering arm force test M2XX knuckle LH and RH		24-1-13	31-1-13
			Steering arm force test Gamma Knuckle		23-1-13	24-1-13

### Name and Address of Distinguished Visitors

S. No	Name of the Visitors	Purpose	Date of Visit
1	Dr.A.Noorul Haq NIT Trichy	Indian examiner Ph.D Viva -voce	30-01-13
2	Dr. V.Selladurai, CIT Coimbatore	Expert member Ph.D Viva -voce	30-01-13

#### Notable Achievements

Mr.Sundaramoorthy Asst professor Mech Engg /Jeyam Engg College, Dharmapuri completed his Ph.D viva voce on 30.01.2013 registered in our research centre under the supervision of Dr.I.Rajendran, HOD/Mech Engg

# **FEBRUARY 2013**

Participation in Seminar/Conference/Workshop/Training etc...

Dept.	Name of the Faculty with Designation	Details of Program	Place of Program	Date
Mechanical	K.Vijayakkannan, P.Anbarasu	Research methodology in education	Dr.MCET	02-02-13, 09-02-13
	M.Selva Kumar	International conference on recent trends in composite materials	International centre, GOA conducted by IIT BHU,Varanasi	18-02-13 to 20-02-13
	M.Selva Kumar D.Shanmugam C.Selva Senthil Prabhu A.Mohanasundaram	Advanced Training On Hydraulics And Pneumatics conducted by Bosch Rexroth, Bangalore	Dr.MCET	31-01-13 to 08-02-13
	D.Shanmugam	BAJA SAEINDIA 2013	Pithampur	14-2-13 to 19-2-13

## Paper Published in International Journals

Dept.	Name of the Author(s) with Designation	Title of the Paper	Title of the Journal	Volume	No	Page(s) No	Date (When Published)
B.E MECH III yr	T.Soorya K.Vinoth	Cosmic Defense Shield Using Cosmic Telescope	International journal of theoretical and applied research in Mechanical Engineering	VOL-1	ISSUE- 2	ISSN:2319- 3182	

## College Events held

S.No	Details of the Event	Date held
1	Techsym- Uddesshah 13	28.02.13 to 2.3.13

# Paper Presentation by the Students

S.No Student's Name Branch and Department Title of Paper Presented Organizer and P of program	ce Date
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1	S.P.Ramakrishnan M.Harish Aslam	IV.B.E Mech	Water bath treatment of exhaust gases in diesel engine	International conference on alternative fuel and emission control MNIT-Jaipur	6.2.13 to 8.2.13
2	S.Pasumpondhasan K.Sudharsan P.Vaishak Naveen kumar	I.B.E Mech – B.sec	Electricity Generation by waves	VISAI-2013 Vel tech college of engineering	24.2.13 to 25.2.13

# Participation of Inter and Intra College Competition / Events by the Students

S.No	Student's Name	Branch and Department	Details of event & Prize if any	Organizer and Place of program	Date
1	Raj Kumar S Venkatesh S Siddharth T Singaravelan A Sivasankaranarayanan Vishnu P Raj Suresh K T Gurubaran K	III-B.E MECH	BAJA SAEINDIA 2013	SAEINDIA / Pithampur	14.2.13 to 19.2.13

# Participation in Seminar/Conference/Workshop/Training etc. by the Students

S.No	Student's Name	Branch and Department	Details of Event	Organizer and Place of program	Date
1	Yogeswaran M Karthick D Raguganeshkumar B Vinothkumar S Vinothkumar K Thamaraiselvan P Tamilselvan B Suresh P Praveenkumar R Vignesh B(31.08.1992) Sathyanath S Varun Vishnu Muhunthan R Surya Raj G Vignesh B(21.09.1992) Venkatesh Kumar	III.B.E MECH	Workshop Radiance – Advanced IC engines	IIT Bombay Dr.MCET	15.2.13 to 16.2.13

	Kathiresh S Suresh A Sivalingam R Sivakumar S			
2	Karthik Kumar K Karthik V Prabhakaran C Prakash C Abhishek G Kathiravan S	Robotics workshop	CSE Department Dr.MCET	20.2.13
3	Rajasekar C	EDC workshop	Dr.MCET	18.2.13

# Industrial Visits / Tour

S. No	Dept.	Class	Place of Industrial Visit	Total No. of Students Visited	Date
1	Mech	B.E III yr	Sakthi auto components	58	9.2.13

# Extra-Curricular / Co-curricular Activities

# Physical Education Activities

S.No	Students Name	Year & Dept.	Events Details	Awards / Medals (if any)	Date of the Event
	E.Loganathan	IV			
1	C.Naveen kumar J.Bhuvaneshvar	Ш			
	B.Ruthrakumar S.Roopan vinayak K.Sibisakravarthy M.Pradeep	П	Sakthi trophy (kho-kho)		
	S.Arun kumar	Ι			
2	Yaswanth kumar	I M.E CAD/CAM			25.2.13 & 26.2.13
	P.N.Arun kumar	IV	Sakthi trophy (kabaddi)		
	V.Ganesh kumar	III			
	Deenadhyalan.P	Ι			
3	K. Pradeep N. Arunprakash S. Gowtham Raj	Ш	Sakthi trophy (basketball)		
4	S. Prasannakumar G. Venkatesh S. Vinothkumar	Ш	Sakthi trophy (table tennis & badminton)		

	K. Vinothkumar			
-	S. Kathiravan	III	Sakthi trophy	
5	K. Gowtham	Π	chess	
6	S. Balamurugan	III	Sakthi trophy (ball badminton)	
7	J. Hariharan	Ш	Sakthi trophy	
/	B. Karthikeyan	Ι	(volleyball)	

#### NCC Activities

Name of the Students	Degree Studying	Branch	Programmes Organized / Conducted / Participated	Venue	Date (s)
Ponmukilan.R Nithyanandam.S Prabhakaran.C Ganeshkumar.V Selvaraj.S Vibin.B Vasanthakumar	III-B.E	MECH	Weapon Training	Singanallur	8.2.13
S.Santhosh V.Kumaresh	II-B.E				

# Entrepreneurial Development Activities

S.No	Student's Name	Branch and Department	Details of Event	Organizer and Place of program	Date
1	Nivas Bharathi.R.V Motheeswar.G	III-B.E MECH	"dream camp"	Dreamin, Bangalore	222.13 to 23.2.13

# **MARCH 2013**

# Participation in Seminar/Conference/Workshop/Training etc. by MCET Staff

Dept.	Name of the Faculty with Designation	Details of Program	Place of Program	Date
Mech	M.Padmanaban (AP) P.Anbarasu (AP) M.Chandrasekar (AP)	Workshop on Communication skills	NPT	9.3.13
	C.Selva Senthil Prabhu (AP) M.Giridharadhayalan (AP)	Workshop on Rapid prototyping and tooling techniques	NIT, Trichy	8.3.13 to 9.3.13
	M.P.Karpagam	National conference on E- learning through online media, E-contents and short flims	Rathinam college of arts and science	1.3.13

#### Participation of MCET Faculty as Resource Person

Dept.	Name of the Faculty with Designation	Title of the Programme	Details & Venue	Date
Mech	C.Selva Senthil Prabhu (AP)	Basics of PLC	ISA Dr.MCET	1.3.13

### Students Activities

### Paper Presentation by the Students

S.No	Student's Name	Branch and Department	Title of Paper Presented	Organizer and Place of program	Date
1	R.Vinoth A.Thangadurai	B.E MECH	Prevention of terrain collisions	Rathinavel subramaniyam college of Engineering & Technology, Dindigul	8.3.13

# Participation of Inter and Intra Collegiate Competition / Events by the Students

S.No	Student's Name	Branch and Department	Details of event & Prize if any	Organizer and Place of program	Date
1	R.Vinoth A.Thangadurai	B.E MECH	CAD modelling	Rathinavel subramaniyam college of Engineering & Technology, Dindigul	8.3.13
2	S.Santhosh kumar K.Veeraputhiran	B.E MECH	Water rocketry	Department of Production	15.3.13

	R.Prakash M.Raja Udaya kumar.M Rajapandi.M			Engineering, GCT,Coimbatore	
3	G.Ramesh	B.E MECH	Aero Modelling	Department of Production Engineering, GCT,Coimbatore	15.3.13

# Industrial Visits / Tour

S. No	Dept.	Class	Place of Industrial Visit	Total No. of Students Visited	Date
1	MECH	Ш	Ashok Leyland, Hosur	61	8.3.13

### Extra-Curricular / Co-curricular Activities

### Physical Education Activities

S.No	Students Name	Year & Dept.	Events Details	Awards / Medals (if any)	Date of the Event
1	M.Ramachandran K.Muthukumar P.Boopathyraj K.C.Pavithran	II M.E CAD/CAM III B.E MECH II B.E MECH II B.E MECH	Sakthi Trophy Athletics	Participated	12.3.13 to 13.3.13

### Consultancy

	Name of the Faculty (s)	Designation	Consultancy Work	organization / Firm/ Company	Amount	Consulta From	ancy To
$N/PCD((1)\Delta I)$	Dr Rama Thirumurugan Mr. S.Madhusuthanan	Associate Prof Assist.Prof (SS)	1.GM M200 Durability Test 2.GM M2XX Steering arm Force Test 3.MSIL YL7 Static test	Sakthi Auto Components Pvt Ltd ,Tirupur,	-	March 2013	-

Name and Address of Important Visitors

S. No	Name of the Visitors	Purpose	Date of Visit
1	Dr.K.S.Amirthagadeswaran Professor of mechanical engineering GCT,coimbatore		
2	Dr.K.A.Jagadeesh Associate Professor of mechanical engineering PSG,coimbatore		
3	Dr.A.Arockiarajan Assistant Professor of applied mechanics IIT,Chennai		
4	Dr.G.Balamurugan Scientist & group head , MGD-structures division, National aerospace laboratory, Bangalore	3 <sup>rd</sup> Board Of Studies meeting	23.3.13
5	Dr.G.Balakrishnan Engineering team leader, Caterpillar India pvt Itd Engineering design center, IIT,Chennai		
6	Dr.N.L.Parthasarathi Scientific officer D IGCAR,Kalpakam		

# **APRIL 2013**

### Continuing Education Programs/Faculty Development Programmes/Conferences/Seminars/Workshops/Short Term Training Courses etc...

Dept.	Name of the Coordinator(s) with Designation	Title	Conducted at (Venue)	Sponsored by	No. of Participants attended	Date(s)
Mech	Dr Rama Thirumurugan Mr. Madhusudhanan	Vibration measurement and control- a hands on workshop	Hall no12	Dr MCET	51	20-4-13

# Participation of Inter and Intra Collegiate Competition/Events by the Students

S.No	Student's Name	Branch and Department	Details of event & Prize if any	Organizer and Place of program	Date
1	K.C.Pavithran S.Santhosh T.Raghul		Spark 2k13 Aero modeling I prize	Sri Krishna college of	6-4-13
2	K.C.pavithran		Technical quiz	Technology	
3	A.Rajesh Vinoth kumar.S Sathya raj.K Selva raj.C		Auto quiz		
4	A.Rajesh Selva raj.C		Junryard Wars		
5	Vinoth kumar.S Sathya raj.K	Mech	Junryard Wars I prize		
6	A.Rajesh Vinoth kumar.S Sathya raj.K Selva raj.C		Para jump	GCT, Coimbatore	12-4-13 To 13-4-13
7	Vinoth kumar.S Sathya raj.K		Aqua height		
8	Sathya raj.K		Take off I prize		
9	Selva raj.C A.Rajesh		Take off		

### Industrial Visits / Tour

S. No	Dept.	Class	Place of Industrial Visit	Total No. of Students Visited	Date
1	Mech	II yr	Sakthi sugars , Appakudal	71	30-4-13

### Consultancy

Dept.	Name of the Faculty (s)	Desig nation	Title of the Consultancy Work	Name of the organization / Firm/ Company	Amount	Period of Consultancy From	, To
CDAT	Dr. Rama Thirumurugan Mr.Madhusuthanan	Associ ate Prof Assist. Prof	1.M200 Longitudinal Force Test 2.YL7 Static Test	SACL	-	1-4-13	6-4- 13

### Name and Address of Distinguished Foreign Visitors

Name of the Foreign	Area of		Organization	Purpose of	Period of Stay	
Visitors	Specialization	Designation	& Address	Foreigner Visit (with Full details)	From	То
Mr.Myungkoon	Chassis subsystem validation Division	Manager	GM Korea	To see the testing facilities of CDAT	19- 4-13	-

### Name and Address of Distinguished Visitors

S. No	Name of the Visitors	Purpose	Date of Visit
1.	Devendra S. Kambali (Valitation engineer-Ford)	To Witness their testing at C-DAT	02-4-13
2.	Arun Bisht, Dy.Manager-Chassis Design-MSIL (ERD 2-2)	To Witness their testing at C-DAT	02-4-13 to 06-4-13
3.	Buchi Reddy Dy.Manager- Chassis Design MSIL (ERD-CD)	To Witness their testing at C-DAT	02-4-13 to 06-4-13

# MAY 2013

### Continuing Education Programs/Faculty Development Programmes/Conferences/Seminars/Workshops/Short Term Training Courses etc...

Dept.	Name of the Coordinator(s) with Designation	Title	Conducted at (Venue)	Sponsored by	No. of Participants attended	Date(s)
MECH	M.Selva kumar A.R.Suresh	National Conference on Materials and Mechanical Engineering	MCET	-	50	6-5-13 to 7-5-13

### Papers Presented in National Conference/Seminar/Symposium/Workshop

Dept.	Name of the Author(s) with Designation	Title of the Paper Presented	Title of the Conference / Seminar	Conducted by	Conducted at (Venue)	Date(s)of Paper Presented	Proceedings page(s) nos.
Mech	M.Selva kumar	Microstructural characterization of titanium boride composites	National Conference on Materials and Mechanical Engineering	Mechanical department	MCET	6.5.13 TO 7.5.13	-

### Name and Address of Distinguished Foreign Visitors

Name of the			Organization &	Purpose of	Period of Sta	ау
Foreign Visitors	Area of Specialization	Designation	Address	Foreigner Visit (with Full details)	From	То
1.Jose	Business Unit-MKV	Manager				
Magalhaes 2.Armindo	Business Unit-GFOne	Manager	SAKTHI	TO APPRAISE		
Silva 3.Eduaeda	Production Unit	Manager	PORTUGAL S.A	THE TESTING FACILITY	06-05-13	-
4.Sora Festas	Marketing& Customer Relation	Manager				

# National Conference on Materials and Mechanical Engineering (NCMME 2013)

The National conference on Materials and Mechanical Engineering (NCMME 2013) was conducted on 6th and 7th of May 2013 by the department of Mechanical Engineering. Dr.S.Chendur pandian, Principal and Dr.I.Rajendran, HOD of Mechanical Engineering welcomed the gathering. Dr.S.Vijayarangan, Director gave the presidential address.

Dr.G.N.K.Ramesh Bapu, Senior Principal Scientist, CSIR, CECRI, Karaikudi inaugurated the conference on May 6th and delivered the keynote address on "Electro deposited metal coatings for Corrosion prevention" which enhance the students knowledge on electroplating and corrosion of metals. He released the conference proceedings. In the afternoon session,



Dr. S .Kumaran, Associate professor, NIT, Trichy had delivered the keynote address on "Materials for structural and energy applications". On the 2nd day of the conference, Mr. M. Govindaraju, Senior Project Engineer, Non ferrous materials technology development centre, Ministry of mines had presented the keynote address on "Materials and Metallurgical engineering"

Totally 79 number of papers were received from various institutions in and around Tamil Nadu and 50 papers were selected and presented. Finally, the conference came to an end with the vote of thanks by Mr.M.Selvakumar and Mr. A. R. Suresh, Assistant Professor, Mechanical Engineering.















"Vibration Measurement and Control-A hands on workshop" held on 20th April 2013

Inaugural address by Dr G Balakrishnan, Engineering team leader, Caterpillar India Pvt. Itd, Chennai





Group Photo of External participants with chief guests and organizing committee members