

Goa University

Electronics Discipline, School Of Physical & Applied Sciences in association With

Directorate of International Cooperation & Exchange, Goa University

Report on workshop "Mathematical Methods & Structural Analysis"

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1. Title of the Event/Activity/ program	"Mathematical Methods & Structural Analysis"	
2. Date and Time	17 th – 21 st July 2023	
3. Mode of conduct (Physical/Online)	Physical	
4. School/ Directorate/ Section	Electronics Discipline, SPAS	
5. Collaborating Agency/School/ Directorate	 Directorate of International Cooperation & Exchange, Goa University Civil Department, Goa College of Engineering, Farmagudi, Ponda, Goa (Day 4) Civil Department, Don Bosco College of Engineering, Fatorda, Goa (Day 5) 	
6. Detail of the Resource Person	Dr. Miguel Ângelo Carvalho Ferraz Professor, Civil Engineering Department, Faculty of Engineering, University of Porto, Portugal. Awarded a mobility grant for staff under the MOBILE 2 BE Project to Goa University. Area of expertise: Civil Engineering in particular, the development and application of numerical models of structural analysis.	

7. Organising Committee	Prof. Rajendra Gad Dr. Aniketh Gaonkar Dr. Marlon Sequeira Dr. Bhargav Alavani	
8. Number of Faculty & Students attended/ participated	Day 1: 21 Day 2: 16 Day 3: 23 Day 4: 27 Day 5: 20	
9. The objectives of the Program/activity/event	To have exposure to Mathematical Methods & Structural Analysis using Excel and VBA for the students.	
10. Description of the Program/activity/event	A workshop was conducted by the School Of Physical & Applied Sciences in association With the Directorate of International Cooperation & Exchange, Goa University, from 17 th to 21 st July 2023 at the School Of Physical & Applied Sciences (SPAS) and Affiliated Engineering colleges of Goa University.	
	From day 1 to day 3, i.e., from $17^{th} - 19^{th}$ July 2023, the workshop was conducted at SPAS, Goa University, where the Physics & Electronics discipline participants (students & Faculties) attended the event.	
	Day 4 (20 th July 2023) of the workshop was held for the engineering students of the Civil Department, Goa College of Engineering, Farmagudi, Ponda, Goa.	
	Day 5 (21 st July 2023) of the workshop was held for the engineering students of the Civil Department, Don Bosco College of Engineering, Fatorda, Goa.	
	A total of 70 participants participated in the workshop.	
11. Benefit/Key outcomes of the Program/activity/event	 Participants got an opportunity to learn the detailed use of mathematical methods & structural analysis (for civil engineering students) using Excel and VBA, which they can use in any type of analysis during their projects. During the workshop, under expert guidance, participants could explore Excel 	

	and VBA, including different formulae and analysis approaches.
12. Enclosures with report	 Brochure (Goa University, GEC, DBCE) Attendance Geo-tag photos

Dr. Rajendra Gad Professor, SPAS

Prof. Kaustubh R.S. Priolkar

Dean, SPAS

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Assistant Professor Miguel Ferraz
Faculty of Engineering of University of Porto, Portugal

In relation with his visit to the Goa University, assistant professor Miguel Ferraz will conduct a workshop in five sessions on the topic "Mathematical Methods & Structural Analysis"

- Session 1 Personal and University of Porto presentation Microsoft Excel tutorial July 17, 2023 (10.00 am) – SPAS, Goa University
- Session 2 Modelling Physics with Microsoft Excel & VBA
 July 18, 2023 (10.00 am) SPAS, Goa University
- Session 3 Modelling Physics with Microsoft Excel & VBA July 19, 2023 (10.00 am) – SPAS, Goa University
- Session 4 Structural Analysis with Microsoft Excel & VBA
 July 20, 2023 (10.00 am) Civil Department, Goa
 College of Engineering, Farmagudi, Ponda, Goa
- Session 5 Structural Analysis with Microsoft Excel & VBA

 July 21, 2023 (10.00 am) Civil Department, Don Bosco
 College of Engineering, Fatorda, Goa

Note

The use of a personal/group computer with Excel installed is recommend

Organized by:

School of Physical & Applied Sciences and Directorate of International Cooperation & Exchange, Goa University



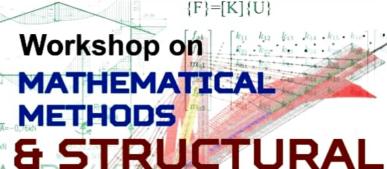


School of Physical & Applied Sciences and Directorate of International Cooperation & Exchange, Goa University









ANALYSIS

Structural Analysis with Microsoft Excel & VBA

DATE: Thursday July 20th, 2023



TIME: 10:00 am to 11:30 am

Dr. Miguel Ferraz

Faculty of Engineering
University of Porto
Portugal

Prof. Miguel Ferraz is the professor at the Civil Engineering Department of the Faculty of Engineering of University of Porto in Portugal. His area of expertise is civil engineering in particular the development and application of numerical models of structural analysis.

Dr. Miguel will be conducting a workshop on the development of numerical models for structural analysis using Microsoft Excel and Visual Basic programming.

The workshop is beneficial to both M.E. and BE students interested in Structural Engineering Domain. it is requested that all interested students to attend the workshop.

The use of Personal/ group computer with Excel installed is Recommended.

VENUE: Civil Engineering Dept Seminar Hall

All are requested to be seated in seminar hall by 9.45 AM

Dr. Krupashankara M.S Principal Dr. K. G. Guptha HOD - Civil Engg Dr. A.K.S. Bhaduria Prof- Civil Engg Dr. Ganesh Hegde Prof- Civil Engg

Assistant Professor Miguel Ferraz
Faculty of Engineering of University of Porto, Portugal

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School of Physical & Applied Sciences and Directorate of International Cooperation & Exchange, Goa University

Attendance Sheet (17/07/2023)

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Sr No	Name of Participant	Signature
1	Omkar Shetgaonkar	
2.	Nikita Godara	Went.
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4	Samrudhi Sawant	savery,
5	Devang Gawade	Canady,
6	Tejal Honawale Dion's Carrollo	growals
7	Viones Carrella	Draw?
8	APITSA SHEISE	
q.	Allan Silveira	
10	Nashley A. Dias Ananya Mukhenje e Meliza Mania Souza	NAS
11.	Ananya Mukheriee	doses
12.	Meliza Maria Souza	Muzv.
13	Darshan Kesamani	Jarah
14	Shantanu Bhenudgs Naik	Frait
15	RAMIRA MASCARENHAS	
16	Pranjab Vereikay	grandeli.
17	Mehnaz Shaikh	Shark
18	Nagraj Yovekar	1. Marco
19	Bhergar Alaran	Maria
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21	Marlon Legneiro	Symin
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Attendance Sheet (18/01/2023)

Sr No	Name of Participant	Signature
1	Mehnaz Shaikh	Bhaikla
2	Poranjali Verenkaon	Quellas
3	RAMIRA MASCARENHAS Shantaone B. Naik	
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5	NASHLEY .A. DIAS	Mole
6	Dergng Gawade	(Danadre)
7	Tejal Honawale	grouanals
8	AOSTYA SHETYE	Luly
9	Samruda Sawant	Scarcin
10.	Omkar Shetgaonkar	Sing
11.	Ananya Mukherjee	Atrasga
12.	Meliza Maria Souza	Acusa.
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16.	Nikita Godara	OF 1
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Attendance Sheet (19/01/2023)

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03	Delinka Rosa	Docg.
04	Viola Fernandes	plas.
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08	Meknaz Shoukh Nashley - A - DIAS	Monkey
09	NIANHLEY - A - DIAS	NAME
10	Anany Muranenjee	the s
11	Meliza Maria Souza	Dentale.
12	Darshan Koramani	Druk .
13	Actya Shety	A
14	Samrudhi Sawant	Saman
15	Digniz Carvallus Saloni Mandrekar	Diazis
16	Saloni Mandrekar	-
17	Sai Goude	Oci 1
18	Tejal Honawale	Storiaval
19	Devany Gamade	Brech
20.	Omkar Shetyaonkar Nikita Godara	QA'
21.	Nikita Godana	Wex
22.	Filan Silveira	T T
9.3	Ramires Mascarenhas	= 13
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