

BMS institute of technology and management

Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

OPEN COURSE 2020-2021

Department: Mechani	ical Engineering	
Title of the Open Cou	ırse	Introduction to Computational Fluid dynamics
Targeted Students fro	om Branches	Mechanical Engineering , Civil Engineering
Registration Fee		Rs. 100/-
No. of students attend	led	44
Software/Hardware T	Sools used	CSFLOW
Delivery Methods (e.	g.: ppt presentation, chalk	PPT Presentation, Software
&		Demonstration, Simulation, Videos.
talk, simulation, vide	os, project, etc.)	
Assessment Methods	(e.g.: Quiz, test, mini-	QUIZ
project, report submis	ssion, etc.)	
Open Course Chief	Name	Dr.Avinash.G , Dr.Jagadeesh.YJ
Coordinator Details	Mobile No.	953523085
(One Point Contact)	Email ID	avinash.govindaraju@bmsit.in
Internal Resource	Name	Dr.Avinash.G
Person Details	Designation	Assistant Professor
(Please use	Mobile Number	953523085
additional	Name	Dr. Jagadeesh.YJ
rows for multiple	Designation	Assistant Professor
resource persons)	Mobile Number	9845604585
External Resource	Name	Vivek
Person Details	Designation	Manager
(Please use	Company/Organization	CMS Software, Bengaluru
additional	Mobile Number/email-id	vivek@hexagon.com
	Name	Karan Manoj
	Designation	Application Engineer
	Company/Organization	CMS Software, Bengaluru
	Mobile Number/email-id	8105551910/karanmanoj13@gmail.c om
Curriculum Gaps:	PO5:Modern Tool Usage:	
(Please indicate the	Modern Engineering and	IT Tool-Industries using analysis
gaps in terms of	CFD software used is CSF	Low. This is Simulation software.
POs/PSOs)	University curriculum doe	es not have the CFD hence Open
	Course is conducted. Teac	hing by Industry person also involved.
	(PSO2:Analyze the fluid a	and thermal aspects of different
	mechanical systems.)	
	The CSFlow software used	a is fluid and thermal analysis
	software. Mechanical syst	ems such as ,Flow over aeroplane, flow
	through blower, flow thro	ugn Overhead projector, analysis is
	carried by modern softwa	re.



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Abstract	In order to give scope for up CFD, this open course is con using modern industrial softwindustry expert were invol Computational Fluid Dynan flows using numerical meth analyze complex problems if fluid-gas interaction. Enginee frequently used are for hydrodynamics. Fluid dynam the form of partial different solvers transform these laws i to efficiently solve these equa CFD analysis has a great poprocess and is therefore of conventional testing for data a tests, a limited number of qua in a CFD analysis, all desired and with a high resolution conducted for 5 days by virtu students shown interest in le modern software tools.	dating the knowledge in the ducted. The theory and An ware is used. Both Academi lved to teach and give nics (CFD) is the analysis nods. Using CFD, you are involving fluid-fluid, fluid ering fields where CFD ana or example aerodynami nics is involved with physica tial equations. Sophistications and stions numerically. otential to save time in the cheaper and faster compact acquisition. Furthermore, in antities are measured at a tire I quantities can be measure in space and time. Oper- ual mode. It has been obser- tarning the thermal course	e field of alysis by cian and training. of fluid able to -solid or lyses are cs and al laws in ted CFD l are able be design bared to n real life ne; while d at once n course ved that by using
REC D Dr. Avinash G is	presenting	SIDDHARTH A ME-201 and 15 more	A 9:5
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Sector BMS	INSTITUTE OF TECHNOLOGY AND MANAGEMEN	IT 🔶	
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The second	(CFD)	Praveen A M	MILAN CHAU
the second second	-Dr. Avinasi	h	
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Meeting details A		Raise hand Turn on a	aptions Epre

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OPEN COURSE 2020-2021

June 1-5, 2021



CO-4 Analyze the fluid flow over the various components

CO-PO Mapping for open course of "Introduction to Computational Fluid dynamics"

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1	PO12	PSO
											1		2
CO1	3	3	3	2	3	-	1	-	1	1	-	1	3
CO2	3	3	2	2	2	-	-	-	1	1	-	1	3
CO3	2	2	3	2	3	-	-	-	2	1	-	2	3
CO4	3	2	3	2	3	-	-	-	2	1	-	2	3

Feedback from external expert: -Nil

Feedback (critical) from students:

- 1. Personally Felt That The Number Of Sessions Allotted Were Less As This Is A Very Huge Topic And To Be Able To Grasp All Of Those Information In Just 5 Days Is A Little Difficult. By Jayant Bhansali, 1BY18ME022.
- 2. Things Were Well Explained And The Basic Things In Cfd Are Clear To Me After This



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OPEN COURSE 2020-2021

June 1-5, 2021

Course. I Feel This Particular Topic Requires Lot Of Time To Teach Completely. But It Was Summarised Well In Just One Week. By. Siddharth A, 1BY18ME056

Feedback from External participants (if any): -NIL-

Corrective methods/suggestions to consider while conducting open course next time (at least two points)

1.Upgrade to use good digital teaching systems

2. Demonstrate more problems by using software tool

Sample course feedback form

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4	2021/0	6/0 1b	, v18meC	JAYANT	BI 1BY18	BMEO	3	i Ye	es	Excellent	Good	Good	Can be im	Yes	I persona	l None, exc	ept if we o	ould hav	e a few more	e days of l	hands on p	ractical tra	ining after	r the par
5	2021/0	6/0 1b	y18meC	SIDDHAI	RT 1BY18	BMEO	4	I Y	es	Excellent	Good	Good	Good	Yes	Things w	e Some of t	he content	t was goir	ng above my	, head and	I feel this t	hings are	pretty com	imon be
6	2021/0	6/0 1b	y20me4	HARSHA	V. 1BY20	DME4	3	5 Ye	es	Excellent	Good	Good	Good	Yes	It was ve	r First day v	vas interes	ting and	i understood	l everythir	ng but fron	n day 2 to c	lay 5 it wa	s bit har
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10	2021/0	6/0 1b	y19meC	SHRIHA	RS 1BY19	9ME0	3	3 Ye	es	Excellent	Average	Average	Good	Yes	Excellent	Excellent								
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13	2021/0	6/0 1b	y19me0	SPOORT	THI 1by 19	9meC	4	I Y	es	Excellent	Excellent	Excellent	Good	Yes	Well carr	i Had a effe	ective learn	ning with	respect to b	asic learni	ng			
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17	2021/0	6/0 1b	y18me0	KARTIKA	AY 1BY18	BME0	4	I Y	es	Excellent	Excellent	Good	Good	Yes	The sessi	c None, gre	at course o	content						
18	2021/0	6/0 1b	y19meC	DEVCHA	R 1by19	9meC		5 Ye	es	Excellent	Excellent	Good	Excellent	Yes	Teaching	Technical	content w	as really	good					
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OPEN COURSE 2020-2021

Department: ME	CHANICAL ENGINEERI	NG
Title of the Open	n Course	Data Analysis using Excel
Targeted Studen	ts from Branches	IV and VI sem UG students of all branches
Registration Fee		Rs 100/
No. of students a	attended	61
Software/Hardw	are Tools used	Microsoft Excel (2010 and above)
Delivery Method	ds (e.g.: ppt presentation,	PPT Presentation/simulation/videos
chalk & talk, sin	nulation, videos, project,	
etc.)		
Assessment Met	hods (e.g.: Quiz, test,	Quiz
mini- project, re	port submission, etc.)	
Open Course	Name	Dr. Keerthi kumar N
Chief	Mobile No.	9743634934
Coordinator	Email ID	
Details (One		
Point Contact)	N	
Internal	Name	Dr. Keerthi kumar N
Resource	Designation	Assistant Professor
Person Details	Mobile Number	9743634934
(Please use	Name	Madhu M.C
additional	Designation	Assistant Professor, Department of
rows for		ME,BMSIT&M
multiple	Mobile Number	8105572970/madhumc@bmsit.in
resource		
persons)	Nama	M M CM
External	Designation	Mrs. Manasa C.M
Resource Demon Details		Asst.Protessor
(Plansa usa	Company/Organization	Presidency University
additional	Mobile Number/email-id	8088139416
additional	Name	manasacin@presidencyuniversity.m
	Designation	NIT. KITAN KUMAT. N
	Company/Organization	Sr. Executive, Finance Soch Appendic DVT I tol. Describerty
	Mahila Number/amail id	Soch Appareis P V I Ltd, Bengaluru
Counting		9845452699/gnkirankumari@gmail.com
Curriculum	P02,P04,P05,P010,P01	2
Gaps: (Please		
indicate the		
PO_{c}/PSO_{c}		
Abstract (Brief	This course is designed to	provide the concents of Data Analysis in the
Details of the	Microsoft Excel environ	ment. Initially students will be learning the
open course	basics excel functionalities	es followed by progressively increase in the
with less than	difficulty level as they m	ove along the course, capping with advanced
250 words)	techniques through various	us case studies. This course helps the students
	to master in core concepts	and various techniques in EXCEL. The course
	applying basic functions a	and techniques, analyze the collected data sets.



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visualize the results through various conditional formatting and charts. Organize data/results in the form of simple tables and pivot tables. Introduce the usage of add -in tools and optimize results with solver/goal seek add-in. Build presentation ready dashboards, create own formulas in Excel based on individual skill sets. Finally, turn any kind of real world data into business insights.

Photograph of the event:



ATTECHNOLOGY CONTRACTOR CONT **BMS** INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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OPEN COURSE 2020-2021

June 1-5, 2021



CO-PO Mapping for open course of 'Data Analysis using EXCEL'

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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1	PO12	PSO
											1		3
CO1		3			3					2		1	
CO2				3	3					3		1	
CO3		1		3	3					3		1	
C04					3					3		3	
CO5		1		3	3					2		3	



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Feedback from external expert:

- 1. The open course was organized very well.
- 2. The students were very attentive and involved themselves in all the sessions.

Feedback (critical) from students:

1. Students mentioned that they learnt a lot about Excel and its applications to real world scenario.

2. Hands on sessions were very useful for problem solving

Feedback from External participants (if any): -NIL-

Corrective methods/suggestions to consider while conducting open course next time (at least two points): -NIL-

Sample course feedback form:

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