



Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 2

TEACHING-LEARNING AND EVALUATION

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL
INDRA GANESAN COLLEGE OF ENGINEERING





Criteria2

Teaching-Learning and Evaluation

350

KeyIndicator-2.3.Teaching-Learning Process (40)

2022-2023

PARTICIPATIVE LEARNING

MASTER OF BUSINESS ADMINISTRATION

Activity	NumberofStudents Attended	Page No.
Value Added Course(VAC)	88	3
TOTAL STUDENTS ATTENDED	88	-



Criteria2

Teaching-Learning and Evaluation

350

KeyIndicator-2.3.Teaching-Learning Process (40)

2022-2023

MASTER OF BUSINESS ADMINISTRATION

PARTICIPATIVE LEARNING

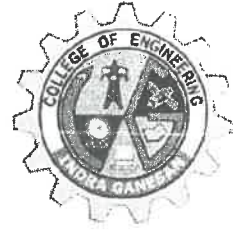
VALUE ADDED COURSE



Indra Ganesan

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Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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Department of Management Studies

Academic Year 2022-2023 - Odd Semester

02.11.2022

Ref: IGCE/MBA/2022-23/VAC/01

DEPARTMENT CIRCULAR

Department of Management Studies and IQAC, IGCE in association with Synergy School of Business Skills organizing Value Added Course for all First and Final year students on "Excel For Business Analytics" from 14.11.2022 to 18.11.2022. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Interested students can register their names with the VAC Co-ordinator Ms. Minipriya N For this program on or before 10th November 2022.

Resource Person:	Mr. Kiran Gowda Product Specialist - Human Resource Management. Synergy School of Business Skills Trichy.
Venue:	MBA Seminar Hall


HOD/MBA
Cc:

- Principal Table
- IQAC Co-Ordinator
- HoD/MBA
- Class Incharges - I, II - Year
- I, II - Year MBA Students
- Office File
- Notice Board


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

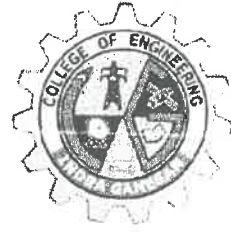




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Value Added Course on "Excel For Business Analytics" SYL

LABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Manage Workbook Options and Settings	1	14/11/2022
2	Apply Custom Data Formats and Layouts	1	14/11/2022
3	Create Tables	1	15/11/2022
4	Perform Operations with Formulas and Functions	3	15/11/2022
5	Create Charts and Objects	3	16/11/2022
6	Manage Workbook Options and Settings	1	16/11/2022
7	Apply Custom Data Formats and Layouts	2	16/11/2022
8	Create Advanced Formulas	3	17/11/2022
9	Create Advanced Formulas-Practical	3	17/11/2022
10	Create Advanced Charts and Tables	3	18/11/2022
11	Create Advanced Charts and Tables-Practical	3	18/11/2022
12	Exam	1	18/11/2023
Total Hours		30	-


Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

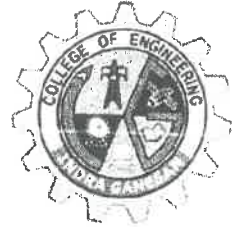
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STUDENTSPARTICIPATIONLIST

VACPROGRAM-ExcelForBusinessanalytics **Dr. G. Balakrishnan, M.E., Ph.D.,**
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

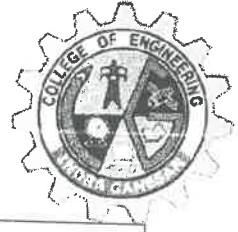
S.No.	Reg.No	Student'sName	Year/Branch
1	811221631002	AbithaA	II/MBA
2	811221631003	AlbertS	II/MBA
3	811221631005	ArunAK	II/MBA
4	811221631006	ArunN	II/MBA
5	811221631007	BalaguruJ	II/MBA
6	811221631008	DhineshA	II/MBA
7	811221631009	DhivyaA	II/MBA
8	811221631010	EbinesarPaulA	II/MBA
9	811221631012	GanesanM	II/MBA
10	811221631013	GayathriK	II/MBA
11	811221631016	JeevithaR	II/MBA
12	811221631017	KaviyaR	II/MBA
13	811221631019	KishorekumarM	II/MBA
14	811221631020	LavanyaM	II/MBA
15	811221631021	Loganathan P	II/MBA
16	811221631024	MohanasundaramK	II/MBA
17	811221631026	MukeshKannanK	II/MBA
18	811221631027	NanthaKumarS	II/MBA
19	811221631028	NirmalaM	II/MBA
20	811221631029	PavithranP	II/MBA
21	811221631030	PrasanthR	II/MBA
22	811221631031	PrathiushaR	II/MBA
23	811221631032	RajendarS	II/MBA
24	811221631034	Ramyas	II/MBA
25	811221631035	RubinBharathiB	II/MBA
26	811221631036	Rubini P	II/MBA
27	811221631037	SakthivelT	II/MBA
28	811221631038	SandhiyaS	II/MBA
29	811221631040	SangiliandavanN	II/MBA
30	811221631042	Santhoshalanraja	II/MBA
31	811221631043	SaranL	II/MBA
32	811221631044	SarathaC	II/MBA
33	811221631046	SharmilaKV	II/MBA
34	811221631047	SheelaraniN	II/MBA
35	811221631048	SivaparamaleshwariB	II/MBA
36	811221631051	SubashP	II/MBA
37	811221631053	ThulasimaniM	II/MBA
38	811221631054	VasanthG	II/MBA
39	811221631055	Vasanthapriva S	II/MBA



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S.No.	Reg.No	Student'sName	Year/Branch
40	811221631056	VigneswariG	II/MBA
41	811221631057	VijayalakshmiM	II/MBA
42	811221631058	VijayaSasthiriraiK	II/MBA
43	811222631001	AbinayaG	I/MBA
44	811222631001	AnithaS	I/MBA
45	811222631001	ArunkumarR	I/MBA
46	811222631001	AshwinJ	I/MBA
47	811222631001	BalamuruganA	I/MBA
48	811222631001	DevarajS	I/MBA
49	811222631001	DhivyaS	I/MBA
50	811222631001	DineshkumarJ	I/MBA
51	811222631001	GunaseelanM	I/MBA
52	811222631001	HelinaTrathyG	I/MBA
53	811222631001	KabalkalanK	I/MBA
54	811222631001	KalanithiGS	I/MBA
55	811222631001	KarthikaK	I/MBA
56	811222631001	MohamedAshikY	I/MBA
57	811222631001	MonikaS	I/MBA
58	811222631001	NarmathaP	I/MBA
59	811222631001	RanjithaS	I/MBA
60	811222631001	SamSundarM	I/MBA
61	811222631001	SaraniV	I/MBA
62	811222631001	SelveravivekS	I/MBA
63	811222631001	SeraphinSheelaS	I/MBA
64	811222631001	SivakumarP	I/MBA
65	811222631001	VigneshP	I/MBA


VACCordinator


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

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Manikandam, Trichy-620 012.


HoD/MBA



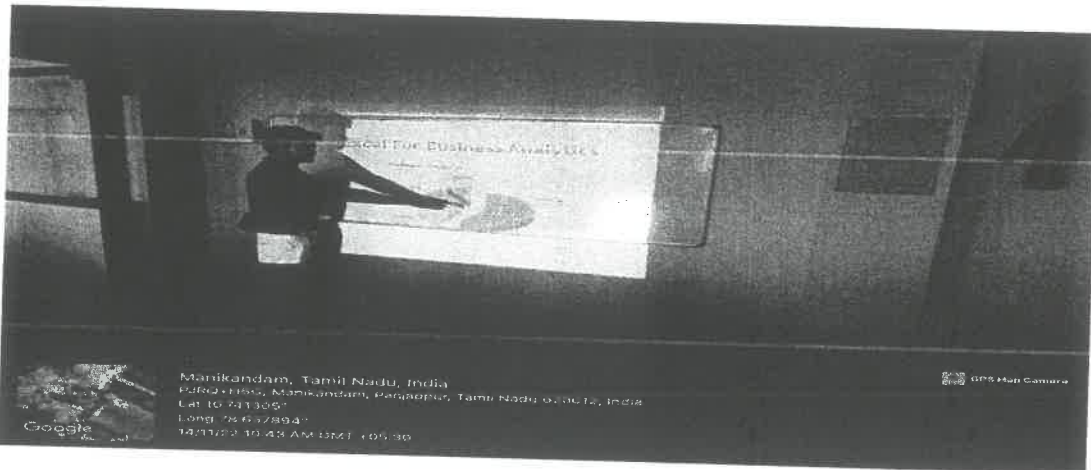
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Report on Value Added Course

Title:	Excel For Business Analytics		
Resource Person:	Mr.KiranGowda ProductSpecialist-HumanResourceManagement. Synergy School of Business Skills Trichy.		
Date of conduct from :	14.11.2022	To:	18.11.2022
		Duration:	30 Hours
Organized Department :	MANAGEMENT STUDIES		
Participant Year:	1&2YearMBA		No. of Students Registered :
Venue:	MBA Seminar Hall		103

Sample Photo



[Signature]
VAC Coordinator

[Signature]
HoD/MBA

[Signature]
Principal

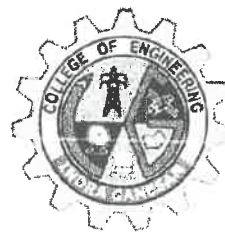
[Signature]
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 Manikandam, Trichy-620 012.




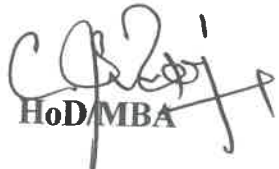

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Report on Value Added Course

Title:	ExcelForBusinessAnalytics				
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Dateofconductfrom :	14.11.2022	To:	18.11.2022	Duration:	30 Hours
OrganizedDepartment:	MANAGEMENTSTUDIES				
Participant Year:	1&2YearMBA	No.ofStudentsRegistered:	103		
Venue:	MBASeminarHall				
OutcomeofValueAddedCourse(VAC):AttheendoftheCourse,Studentscanable to					
<ul style="list-style-type: none">• AnnotateExcelBasics.• WorkwithCellsandWorksheets• CalculateYourDataandFormatyourWorkbook• AddChartsandGraphics.• WorkwithMacrosandFunctions.					
AssessmentProcess					
<ul style="list-style-type: none">• Students,whoaresecuringmorethan70%ontotalscoreandsecuredmorethan75%inattendance is eligible to receive the certificate for the VAC course conducted• TotalScore=(0.5*AttendanceinVACoutof100percentage+0.5*Test markinVACoutof 100 marks)					
 VACCoordinator		 HoD/MBA		 Principal	

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Name of the Student: Lavanya M.
AU Register Number: 811221631020

Year/Sem: R MBA

22/25

Value Added Course on "Excel For Business Analytics" MCQ QUESTIONS (25X4 = 100 Marks)

- The intersection of a column and a row in MS Excel worksheet is known as.
A. Row
 B. Cell
C. Column
D. Tab
- In Microsoft Excel spreadsheets, rows are labelled as ____
A. 1, 2, 3,
 B. A, B, C,
C. A1, B1, C1,
D. I, II, III,
- Microsoft Excel uses the ____ function to calculate the results in the data table.
A. 'RESULT'
B. 'CAL TAB'
 C. 'TABLE'
D. 'AUTOSUM'
- ____ function in MS Excel worksheet represents the total number(s) of entries in the cell(s).
A. SUM
B. AVG
 C. COUNT
D. TOTAL
- ____ is NOT a function in Microsoft Excel spreadsheets.
A. HYPERLINK
B. COUNTIF
C. MIN
 D. AVG
- In MS Excel spreadsheet, data can be sorted using ____.
A. Filter function
B. ARRAY function
 C. Lookup function
D. Operator function
- The ____ feature of MS Excel quickly completes a series of data.
A. Auto Filter
B. Auto Complete
 C. Auto Fill
D. Auto Sum
- Which of these is not a type of function used in Excel by a business analyst?
A. Logical Functions
 B. Financial Functions
C. Lookup Functions.
D. Index Functions.
- Which is the internal rate of return?
A. the interest rate at which all cash flows have a net present value of zero

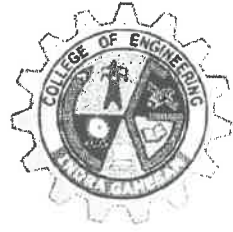

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c) Drag the fill handle across the desired cells

d) Type "=COPY()" in

20. How can you assign a macro to a button in Excel?

a) Right-click on the button and choose "Assign Macro."

b) Go to the "Developer" tab and click on "Macro Options."

c) Use the "ALT" key along with a designated letter key combination.

d) Open the "Properties" window and select the macro from the dropdown menu.

21. Which Excel function is used to find the average of a range of cells?

a) SUM

b) AVERAGE

c) COUNT

d) MAX

22. What is the correct formula to calculate the standard deviation of a dataset in Excel?

a) =STDEV()

b) =VAR()

c) =AVERAGE()

d) =SUM()

23. How can you round a number to the nearest whole number in Excel?

a) =ROUNDUP()

b) =ROUNDDOWN()

c) =ROUND()

d) =CEILING()

24. What is the purpose of a Pivot Table in Excel?

a) To create dynamic formulas

b) To sort data in ascending order

c) To summarize and analyze large data sets

d) To perform complex calculations

25. How can you change the summary function of a value field in a Pivot Table?

a) Right-click on the value field, select "Value Field Settings," and choose the desired summary function.

b) Go to the "Analyze" tab, click on "Field Settings," and select the desired summary function.

c) Double-click on the value field and the summary function options will appear.

d) Select the value field, go to the "Design" tab, and choose the desired summary function from the drop-down menu.


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20/25

Name of the Student: Sivakumar P.

Year/Sem: I MBA.

AU Register Number: 811222B31022

Value Added Course on "Excel For Business Analytics" MCQ

QUESTIONS (25X4 = 100 Marks)

1. The intersection of a column and a row in MS Excel worksheet is known as.

- A. Row
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2. In Microsoft Excel spreadsheets, rows are labelled as _____

- A. 1, 2, 3,
- B. A, B, C,
- C. A1, B1, C1,
- D. I, II, III,

3. Microsoft Excel uses the _____ function to calculate the results in the data table.

- A. 'RESULT'
- B. 'CALC TAB'
- C. 'TABLE'
- D. 'AUTOSUM'

4. _____ function in MS Excel worksheet represents the total number(s) of entries in the cell(s).

- A. SUM
- B. AVG
- C. COUNT
- D. TOTAL

5. _____ is NOT a function in Microsoft Excel spreadsheets.

- A. HYPERLINK
- B. COUNTIF
- C. MIN
- D. AVG

6. In MS Excel spreadsheet, data can be sorted using _____.

- A. Filter function
- B. ARRAY function
- C. Lookup function
- D. Operator function

7. The _____ feature of MS Excel quickly completes a series of data.


- A. Auto Filter
- B. Auto Complete
- C. Auto Fill
- D. Auto Sum

8. Which of these is not a type of function used in Excel by a business analyst?

- A. Logical Functions
- B. Financial Functions
- C. Lookup Functions.
- D. Index Functions.

9. Which is the internal rate of return?

- A. the interest rate at which all cash flows have a net present value of zero
- B. the interest rate at which all cash flows have a positive net present value

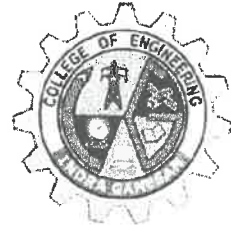

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- Drag the fill handle across the desired cells
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b) =ROUNDDOWNO
c) =ROUND
d) =CEILINGO
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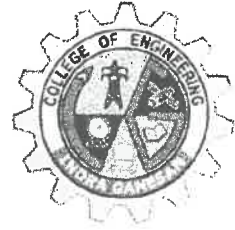
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Value Added Course on "Excel For Business Analytics"

ANSWERKEY

1	B	6	A	11	A	16	A	21	B
2	B	7	C	12	C	17	B	22	A
3	C	8	B	13	A	18	A	23	C
4	C	9	C	14	A	19	C	24	C
5	D	10	C	15	B	20	A	25	A

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 Manikandam, Trichy-620 012.

STUDENTS PARTICIPATION LIST

VAC PROGRAM-ExcelForBusinessAnalytics

S.No.	Reg.No	Student'sName	Year/ Branch	DATE: 14.11.22		DATE: 15.11.22		DATE: 16.11.22		DATE: 17.11.22		DATE: 18.11.22		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1	811221631002	Abitha A	II/MBA	/	/	/	/	/	/	/	/	/	/	30	[Signature]
2	811221631003	AlbertS	II/MBA	/	/	/	/	/	/	/	/	/	/	27	[Signature]
3	811221631005	ArunAK	II/MBA	/	/	/	/	A	/	/	/	/	/	24	[Signature]
4	811221631006	ArunN	II/MBA	/	/	/	/	/	/	/	/	/	/	36	[Signature]
5	811221631007	Balaguru J	II/MBA	/	/	/	/	/	/	/	/	/	/	30	[Signature]
6	811221631008	Dhinesha	II/MBA	/	/	/	/	/	/	/	/	/	/	30	[Signature]
7	811221631009	Dhivya A	II/MBA	/	/	/	/	/	/	/	/	/	/	30	[Signature]
8	811221631010	EbinesarPaula	II/MBA	/	/	/	/	/	/	/	/	/	/	30	[Signature]
9	811221631012	GanesanM	II/MBA	/	/	/	/	/	/	/	/	/	/	30	[Signature]
10	811221631013	GayathriK	II/MBA	/	/	/	/	/	/	/	/	/	/	30	[Signature]
11	811221631016	Jeevitha R	II/MBA	/	/	/	/	/	/	/	/	/	/	30	[Signature]
12	811221631017	Kaviya R	II/MBA	/	/	/	/	/	/	A	/	/	/	27	[Signature]
13	811221631019	KishorekumarM	II/MBA	/	/	/	/	/	/	/	/	/	/	30	[Signature]
14	811221631020	LavanyaM	II/MBA	/	/	/	/	/	/	/	/	/	/	27	[Signature]
15	811221631021	LoganathanP	II/MBA	/	/	/	/	/	/	/	/	/	/	30	[Signature]
16	811221631024	MohanasundaramK	II/MBA	/	/	/	/	/	/	/	/	/	/	30	[Signature]
17	811221631026	MukeshKannanK	II/MBA	/	/	/	/	/	/	/	/	/	/	30	[Signature]
18	811221631027	NanthaKumarS	II/MBA	/	/	/	/	/	/	/	/	A	/	30	[Signature]
19	811221631028	NirmalaM	II/MBA	/	/	/	/	/	/	/	/	/	/	27	[Signature]
			II/MBA	/	/	/	/	/	/	/	/	/	/	27	[Signature]



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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47	8112222631001	Balamurugana	I/MBA	/	/	/	/	/	/	/	/	/	/	/	/	/	27	Bandi
48	8112222631001	DevarajS	I/MBA	/	/	/	/	/	/	/	/	/	/	/	/	/	30	Bandi
49	8112222631001	Dhivya S	I/MBA	/	/	/	/	/	/	/	/	/	/	/	/	/	24	Bandi
50	8112222631001	DineshkumarJ	I/MBA	/	/	/	/	/	/	A	/	/	/	/	/	/	30	Bandi
51	8112222631001	GunaseelanM	I/MBA	/	/	/	/	/	/	/	/	/	/	/	/	/	27	Bandi
52	8112222631001	HelinaTrathyG	I/MBA	/	/	/	/	/	/	A	/	/	/	/	/	/	30	Bandi
53	8112222631001	KabilkalanK	I/MBA	/	/	/	/	/	/	/	/	/	/	/	/	/	30	Bandi
54	8112222631001	KalanithiGS	I/MBA	/	/	/	/	/	A	/	/	/	/	/	/	/	24	Bandi
55	8112222631001	KarthikaK	I/MBA	/	/	/	/	/	/	/	/	/	/	/	/	/	30	Bandi
56	8112222631001	MohamedAshiky	I/MBA	/	/	/	/	/	/	/	/	/	/	/	/	/	30	Bandi
57	8112222631001	MonikaS	I/MBA	/	/	/	/	/	/	/	/	/	/	/	/	/	30	S. Sundara
58	8112222631001	NarmathaP	I/MBA	/	/	/	/	/	/	/	/	/	/	/	/	/	30	S. Sundara
59	8112222631001	RanjithaS	I/MBA	/	/	/	/	/	/	/	/	/	/	/	/	/	27	P. Anand
60	8112222631001	SamSundarM	I/MBA	/	/	/	/	/	/	A	/	/	/	/	/	/	30	P. Anand
61	8112222631001	SaraniV	I/MBA	/	/	/	/	/	/	/	/	/	/	/	/	/	30	P. Anand
62	8112222631001	SelveravivekS	I/MBA	/	/	/	/	/	/	/	/	/	/	/	/	/	24	P. Anand
63	8112222631001	SeraphinSheelaS	I/MBA	/	/	/	/	/	/	A	/	/	/	/	/	/	27	P. Anand
64	8112222631001	SivakumarP	I/MBA	/	/	/	/	/	/	/	/	/	/	/	/	/	30	P. Anand
65	8112222631001	VigneshP	I/MBA	/	/	/	/	/	/	A	/	/	/	/	/	/	30	P. Anand
				/	/	/	/	/	/	/	/	/	/	/	/	/	24	P. Anand


 VACC Coordinator


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 HoD/MBA



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STUDENTS PARTICIPATION LIST

MARKSHEET FOR VALUE ADDED COURSE PROGRAM-Excel For Business Analytics

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A+ 50% of B)
				No. of Session Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1	8112221631002	Abitha A	II/MBA	30	100	21	84	92
2	8112221631003	Albert S	II/MBA	27	90	20	80	85
3	8112221631005	Arun AK	II/MBA	24	80	21	84	82
4	8112221631006	Arun N	II/MBA	30	100	20	80	90
5	8112221631007	Balaguru J	II/MBA	30	100	19	76	88
6	8112221631008	Dhinesh A	II/MBA	30	100	18	72	86
7	8112221631009	Dhivya A	II/MBA	30	100	21	84	92
8	8112221631010	Ebinesar Paula	II/MBA	30	100	20	80	90
9	8112221631012	Ganesan M	II/MBA	30	100	22	88	94
10	8112221631013	Gayathri K	II/MBA	30	100	23	90	95
11	8112221631016	Jeevitha R	II/MBA	27	90	21	84	87
12	8112221631017	Kaviya R	II/MBA	30	100	21	84	92
13	8112221631019	Kishorekumar M	II/MBA	27	90	22	88	89
14	8112221631020	Lavanya M	II/MBA	30	100	22	88	94
15	8112221631021	Loganathan P	II/MBA	30	100	21	84	92
16	8112221631024	Mohanasundaram K	II/MBA	30	100	23	90	95
17	8112221631026	Mukesh Kannan K	II/MBA	30	100	20	80	90
18	8112221631027	Nantha Kumar S	II/MBA	27	90	19	76	83



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46	811222631004	Ashwinj	I/MBA	24	80	22	88	84
47	811222631005	BalamuruganA	I/MBA	27	90	21	84	87
48	811222631006	DevarajS	I/MBA	30	100	22	88	94
49	811222631007	Dhivya S	I/MBA	24	80	22	88	84
50	811222631008	DineshkumarJ	I/MBA	30	100	22	88	94
51	811222631009	GunaseelanM	I/MBA	27	90	21	84	87
52	811222631010	HelinaTrathyG	I/MBA	30	100	20	80	90
53	811222631011	KabilkalanK	I/MBA	30	100	20	80	90
54	811222631012	KalanithiGS	I/MBA	24	80	21	84	82
55	811222631013	KarthikaK	I/MBA	30	100	21	84	92
56	811222631014	MohamedAshiky	I/MBA	30	100	22	88	94
57	811222631015	MonikaS	I/MBA	30	100	24	96	98
58	811222631016	NarmathaP	I/MBA	30	100	19	76	88
59	811222631017	RanjithaS	I/MBA	27	90	18	72	81
60	811222631018	SamSundarM	I/MBA	30	100	20	80	90
61	811222631019	SaraniV	I/MBA	24	80	22	88	84
62	811222631020	SelveravivekS	I/MBA	27	90	21	84	87
63	811222631021	SeraphinSheelaS	I/MBA	30	100	20	80	90
64	811222631022	SivakumarP	I/MBA	30	100	20	80	90
65	811222631023	VigneshP	I/MBA	24	80	21	84	82


VAC Coordinator


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DEPARTMENT OF MANAGEMENT STUDIES

Certificate of Completion

This is to certify that *Mr/Ms/Mrs.* *Dhinesh A*

II year *MBA* has successfully completed the Value Added Course "*Excel For Business Analytics*" Conducted by Department of *MASTER OF BUSINESS ADMINISTRATION* From 14.11.2022 to 18.11.2022 during the Academic Year 2022-2023.

C. Sankar Raj
HOD/MBA

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

[Handwritten Signature]
PRINCIPAL



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NAAC Accredited, 2A* Status Institution by UGC



DEPARTMENT OF MANAGEMENT STUDIES

Certificate of Completion

This is to certify that *Mr/Ms/Mrs.* *Nantha Kumar S*

of *II* year *MBA* has successfully completed the Value Added Course "*Excel For Business Analytics*" Conducted by Department of *MASTER OF BUSINESS ADMINISTRATION* From *14.11.2022* to *18.11.2022* during the Academic Year *2022-2023*.

C. Ganesan

HOD/MBA

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

[Signature]

PRINCIPAL



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DEPARTMENT OF MANAGEMENT STUDIES

Certificate of Completion

This is to certify that *Mr/Ms/Mrs.* **Prasanth R**
of *.....* year *MBA* has successfully completed the Value Added Course "*Excel*
For Business Analytics" Conducted by Department of *MASTER OF BUSINESS*
ADMINISTRATION From 14.11.2022 to 18.11.2022 during the Academic
Year 2022-2023.

C. Subramanian

HOD/MBA

Dr. G. Balakrishnan

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

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Dr. G. Balakrishnan

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DEPARTMENT OF MANAGEMENT STUDIES

Certificate of Completion

This is to certify that Mr/Ms/Mrs. Gunaseelan M

of year MBA has successfully completed the Value Added Course "Excel
For Business Analytics" Conducted by Department of MASTER OF BUSINESS
ADMINISTRATION From 14.11.2022 to 18.11.2022 during the Academic
Year 2022-2023.

C. Sankar Raj

HOD/MBA

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

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NAAC Accredited, ACP Status Institution by UGC



DEPARTMENT OF MANAGEMENT STUDIES

Certificate of Completion

This is to certify that Mr/Ms/Mrs. *Ranjitha S*

of *I*..... year MBA has successfully completed the Value Added Course "*Excel*
For Business Analytics" Conducted by Department of MASTER OF BUSINESS
ADMINISTRATION From 14.11.2022 to 18.11.2022 during the Academic
Year 2022-2023.

C. Sankar Pan H

HOD/MBA

(S)

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(S)

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Department of Management Studies

Academic Year 2022-2023 – Even Semester

22.03.2023


Ref: IGCE/MBA/2022-23/VAC/02

DEPARTMENT CIRCULAR

Department of Management Studies and IQAC IGCE in association with **Bizme Analytix, Trichy** organizing Value Added Course for all First year students on “**Structural Equation Model (SEM) and CFA - Average Variance Extracted (AVE) Using AMOS**” from 03.04.2023 to 07.04.2023. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.


Interested students can register their names with the VAC Co-ordinator Ms.Minipriya N For this program on or before 28th March 2023.

Resource Person:	Mr.Mohamed Shuaib Siddiqui – Head Strategy & Customer Outreach, Bizme Aalytix, Trichy
Venue:	MBA Seminar Hall


HOD/MBA
Cc:

- Principal Office
- IQAC Co-Ordinator
- HoD/ MBA
- I -Year MBA Students
- Notice Board


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**Value Added Course on "Structural Equation Model (SEM) and CFA - Average
Variance Extracted (AVE) Using AMOS"**

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Structural Equation Model (SEM) - Introduction	1	03/04/2023
2	SEM - Create Model	1	03/04/2023
3	SEM - Model Fit: GFI, AGFI, CFI, NFI, RMSEA	2	03/04/2023
4	Practical	2	03/04/2023
5	SEM - Mediation and Moderation Analysis	3	04/04/2023
6	practical	3	04/04/2023
7	Confirmatory Factor Analysis (CFA) - Introduction	1	05/04/2023
8	CFA - Average Variance Extracted (AVE)	2	05/04/2023
9	Practical	3	05/04/2023
10	CFA - Construct Reliability (CR)	3	06/04/2023
11	Practical	3	06/04/2023
12	CFA - Discriminant Validity (DV)	3	07/04/2023
13	Practical	3	07/04/2023
14	Assessment	1	07/04/2023
Total Hours		30	


HOD/MBA



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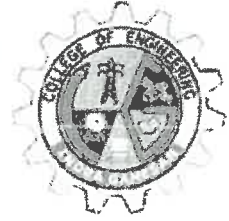

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STUDENTS PARTICIPATION LIST

VAC PROGRAM- "Structural Equation Model (SEM) and CFA - Average Variance
Extracted (AVE) Using AMOS"

S.No.	Reg.No	Student's Name	Year/ Branch
1	811222631001	Abinaya G	I/MBA
2	811222631001	Anitha S	I/MBA
3	811222631001	Arunkumar R	I/MBA
4	811222631001	Ashwin J	I/MBA
5	811222631001	Balamurugan A	I/MBA
6	811222631001	Devaraj S	I/MBA
7	811222631001	Dhivya S	I/MBA
8	811222631001	Dineshkumar J	I/MBA
9	811222631001	Gunaseelan M	I/MBA
10	811222631001	Helina Trathy G	I/MBA
11	811222631001	Kabilkalan K	I/MBA
12	811222631001	Kalanithi G S	I/MBA
13	811222631001	Karthika K	I/MBA
14	811222631001	Mohamed Ashik Y	I/MBA
15	811222631001	Monika S	I/MBA
16	811222631001	Narmatha P	I/MBA
17	811222631001	Ranjitha S	I/MBA
18	811222631001	Sam Sundar M	I/MBA
19	811222631001	Sarani V	I/MBA
20	811222631001	Selveravivek S	I/MBA
21	811222631001	Seraphin Sheela S	I/MBA
22	811222631001	Sivakumar P	I/MBA
23	811222631001	Vignesh P	I/MBA


VAC Coordinator


HoD MBA


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Manikandam, Trichy-620 012.



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COLLEGE OF ENGINEERING

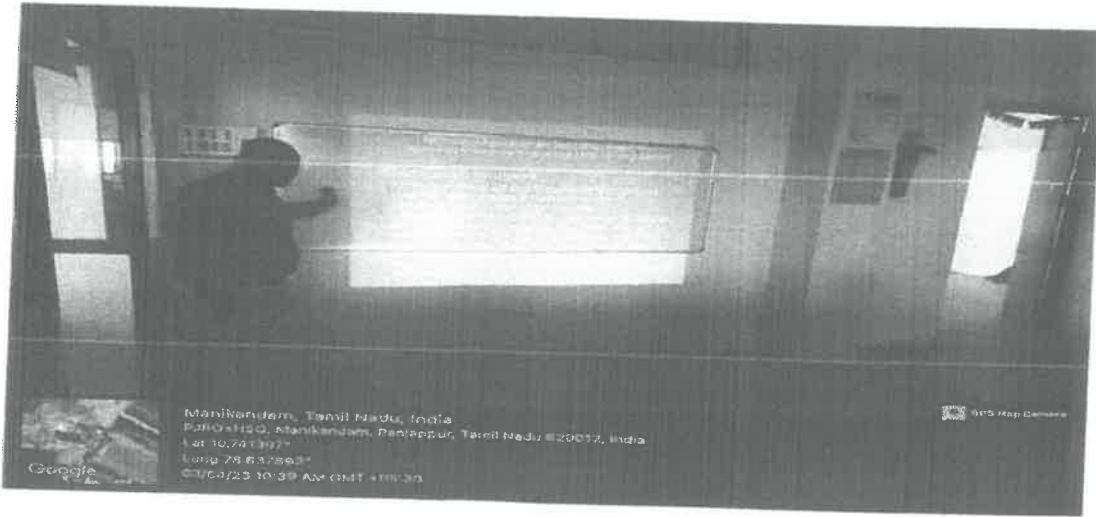
Manikandan, Madurai, Tamil Nadu (620 012) Manikandan, Parappur, Tamil Nadu (620 012)
Registration No. 10/2013, Government of Tamil Nadu, Manikandan, Trichy-620 012



Report on Value Added Course

Title:	"Structural Equation Model (SEM) and CFA - Average Variance Extracted (AVE) Using AMOS				
Resource Person:	Mr. Mohamed Shuaib Siddiqui Head Strategy & Customer Outreach, Bizme Aalytix, Trichy				
Date of conduct from :	03.04.2023	To:	07.04.2023	Duration:	30 Hours
Organized Department :	MANAGEMENT STUDIES				
Participant Year:	1 Year MBA		No. of Students Registered :	23	
Venue:	MBA Seminar Hall				

Sample Photo



[Signature]
VAC Coordinator

[Signature]
HoD/MBA

[Signature]
Principal

[Signature]
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Report on Value Added Course

Title:

"Structural Equation Model (SEM) and CFA - Average Variance Extracted (AVE) Using AMOS

Resource Person:

Mr. Mohamed Shuaib Siddiqui
Head Strategy & Customer Outreach,
Bizme Aalytix,
Trichy

Date of conduct from :

03.04.2023

To:

07.04.2023

Duration:

30 Hours

Organized Department :

MANAGEMENT STUDIES

Participant Year:

1 Year MBA

No. of Students Registered :

23

Venue:

MBA Seminar Hall

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Relate Multiple variables at any point in time.
- Explain Benefits of the Tool AMOS
- Identify if observed variables contribute to latent or unobserved variables.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$

VAC Coordinator

HoD/MBA

Principal

Dr. G. Balakrishnan, M.E., Ph.D.

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Name of the Student :

Year/Sem:

AU Register Number:

Value Added Course on **“Structural Equation Model (SEM) and CFA - Average Variance Extracted (AVE) Using AMOS”**

ASSESSMENT QUESTIONS (1X100 = 100 Marks)

A) To determine the impact of Organizational Commitment and Job satisfaction on the perceived performance of the Employee in an organization. There are factors like:

- Organizational rewards
- Family support
- Supervisor support
- Favorable working conditions that affect the organizational commitment level of an employee.

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Value Added Course on “Structural Equation Model (SEM) and CFA - Average Variance Extracted (AVE) Using AMOS”

ANSWER KEY

A) The codes that are included in the model for representing different factors and variables are shown below:

Factors or Variables	Code
Perceived Performance (Dependent)	PP
Organizational Commitment	OC
Organizational Rewards	oc1
Family Support	oc2
Supervisor Support	oc3
Favourable Working Condition	oc4
Job Satisfaction	JS
Advancement Opportunity	js1
Workload	js2
Relationship with Supervisor	js3
Financial Rewards	js4


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Name of category	Name of index	Adequate fit	Index Value	Comments
Absolute Fit measure	CMIN/Df	Less than 5	1.540	The required level is derived
	GFI	Greater than 0.90	0.983	The required level is derived
	AGFI	Greater than 0.90	0.962	The required level is derived
	RMSEA	Less than 0.10	0.037	The required level is derived
Incremental fit measure	NFI	Greater than 0.90	0.989	The required level is derived
	CFI	Greater than 0.90	0.996	The required level is derived
	TLI	Greater than 0.90	0.993	The required level is derived
	IFI	Greater than 0.90	0.996	The required level is derived
Parsimonious fit measure	PGFI	Greater than 0.50	0.437	The required level is not derived
	PCFI	Greater than 0.50	0.553	The required level is derived
	PNFI	Greater than 0.50	0.550	The required level is derived

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Jr. G. Balakrishnan, M.E., Ph.D.
Principal

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620 012.

STUDENTS ATTENDANCE

VAC PROGRAM - Structural Equation Model (SEM) and CFA - Average Variance Extracted (AVE) Using AMOS

S.No.	Reg.No	Student's Name	Year/ Branch	DATE: 03.04.23		DATE: 04.04.23		DATE: 05.04.23		DATE: 06.04.23		DATE: 07.04.23		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1	811222631001	Abinaya G	I/MBA	/	/	/	/	/	/	/	/	/	30	Abinaya G	
2	811222631001	Anitha S	I/MBA	/	/	/	A	/	/	/	/	/	27	Anitha S	
3	811222631001	Arunkumar R	I/MBA	/	/	/	/	/	/	/	/	/	30	Arunkumar R	
4	811222631001	Ashwin J	I/MBA	/	/	/	/	/	/	/	/	/	30	Ashwin J	
5	811222631001	Balamurugan A	I/MBA	/	/	/	/	/	/	/	/	/	30	Balamurugan A	
6	811222631001	Devaraj S	I/MBA	/	/	/	/	/	/	/	/	/	30	Devaraj S	
7	811222631001	Dhivya S	I/MBA	/	/	/	A	/	/	/	/	/	27	Dhivya S	
8	811222631001	Dineshkumar J	I/MBA	/	/	/	/	/	/	/	/	/	30	Dineshkumar J	
9	811222631001	Gunaseelan M	I/MBA	/	/	/	/	/	/	/	/	/	30	Gunaseelan M	
10	811222631001	Helina Trathy G	I/MBA	/	/	/	/	/	/	/	/	/	30	Helina Trathy G	
11	811222631001	Kabilkalan K	I/MBA	/	A	/	/	/	/	/	/	A	27	Kabilkalan K	
12	811222631001	Kalanithi G S	I/MBA	/	/	/	/	/	/	/	/	/	24	Kalanithi G S	
13	811222631001	Karthika K	I/MBA	/	/	/	/	/	/	/	/	/	27	Karthika K	
14	811222631001	Mohamed Ashik Y	I/MBA	/	/	/	/	/	/	/	/	/	30	Mohamed Ashik Y	
15	811222631001	Monika S	I/MBA	/	/	/	/	/	/	/	/	/	30	Monika S	
16	811222631001	Narmatha P	I/MBA	/	/	/	/	/	/	/	/	/	30	Narmatha P	
17	811222631001	Ranjitha S	I/MBA	/	/	/	/	/	/	/	/	/	30	Ranjitha S	
18	811222631001	Sam Sundar M	I/MBA	/	/	/	/	/	/	/	/	/	30	Sam Sundar M	
19	811222631001	Sarani V	I/MBA	/	/	/	/	/	/	/	/	/	30	Sarani V	
20	811222631001	Selveravivek S	I/MBA	/	/	/	A	/	/	/	/	/	27	Selveravivek S	
21	811222631001	Seraphin Sheela S	I/MBA	/	/	/	/	/	/	A	/	/	27	Seraphin Sheela S	
22	811222631001	Sivakumar P	I/MBA	/	/	/	/	/	/	/	/	/	30	Sivakumar P	
23	811222631001	Vignesh P	I/MBA	/	/	/	/	/	/	/	/	A	30	Vignesh P	

VAC Coordinator

[Signature]
HOD/MBA



Indra Ganesan

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STUDENTS EVALUATION

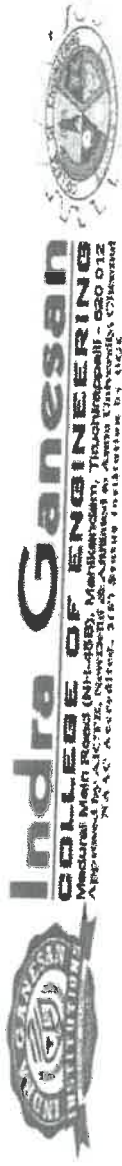
MARK SHEET FOR VALUE ADDED COURSE PROGRAM - Structural Equation Model and CPManAverage Variance

Extracted (AVE) Using AMOS

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details			VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Session Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)		
1	811222631001	Abinaya G	I/MBA	30	100	19	76	88	
2	811222631001	Anitha S	I/MBA	27	90	18	72	81	
3	811222631001	Arunkumar R	I/MBA	30	100	20	80	90	
4	811222631001	Ashwin J	I/MBA	30	100	22	88	94	
5	811222631001	Balamurugan A	I/MBA	30	100	21	84	92	
6	811222631001	Devaraj S	I/MBA	30	100	22	88	94	
7	811222631001	Dhivya S	I/MBA	27	90	21	84	87	
8	811222631001	Dineshkumar J	I/MBA	30	100	20	80	90	
9	811222631001	Gunaseelan M	I/MBA	30	100	20	80	90	
10	811222631001	Helina Trathy G	I/MBA	27	90	21	84	87	
11	811222631001	Kabilkalan K	I/MBA	24	80	22	88	84	
12	811222631001	Kalanithi G S	I/MBA	27	90	21	84	87	
13	811222631001	Karthika K	I/MBA	30	100	19	76	88	
14	811222631001	Mohamed Ashik Y	I/MBA	30	100	18	72	86	
15	811222631001	Monika S	II/MBA	30	100	21	84	92	
16	811222631001	Narmatha P	II/MBA	30	100	21	84	92	
17	811222631001	Ranjitha S	II/MBA	30	100	23	90	95	
18	811222631001	Sam Sundar M	II/MBA	30	100	20	80	90	
19	811222631001	Sarani V	II/MBA	27	90	19	76	83	
20	811222631001	Selveravivek S	II/MBA	27	90	21	84	87	
21	811222631001	Seraphin Sheila S	II/MBA	30	100	21	84	92	
22	811222631001	Sivakumar P	II/MBA	30	100	22	88	94	
23	811222631001	Vignesh P	II/MBA	27	90	21	84	87	

[Signature]
HOD/MBA

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VAC Coordinator



DEPARTMENT OF MANAGEMENT STUDIES

Certificate of Completion

This is to certify that *Mr/Ms/Mrs. Asrwin J*
of year MBA has successfully completed the Value Added Course
"Structural Equation Model (SEM) and CFA - Average Variance Extracted
(AVE) Using AMOS" Conducted by Department of MASTER OF BUSINESS
ADMINISTRATION From 03.04.2023 to 07.04.2023 during the Academic
Year 2022-2023.

C. Sundaraj

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DEPARTMENT OF MANAGEMENT STUDIES

Certificate of Completion

This is to certify that *Mr/Ms/Mrs. Devaraj S*
of year *MBA* has successfully completed the *Value Added Course*
“Structural Equation Model (SEM) and CFA - Average Variance Extracted
(AVE) Using AMOS” Conducted by Department of *MASTER OF BUSINESS*
ADMINISTRATION From *03.04.2023* to *07.04.2023* during the *Academic*
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DEPARTMENT OF MANAGEMENT STUDIES

Certificate of Completion

This is to certify that Mr/Ms/Mrs. *Karthika K*
of *.....* year MBA has successfully completed the Value Added Course
“Structural Equation Model (SEM) and CFA - Average Variance Extracted
(AVE) Using AMOS” Conducted by Department of MASTER OF BUSINESS
ADMINISTRATION From 03.04.2023 to 07.04.2023 during the Academic
Year 2022-2023.

C. Sundar Rajan

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DEPARTMENT OF MANAGEMENT STUDIES

Certificate of Completion

This is to certify that Mr/Ms/Mrs. *Sarani V*
of *.....* year MBA has successfully completed the Value Added Course
"Structural Equation Model (SEM) and CFA - Average Variance Extracted
(AVE) Using AMOS" Conducted by Department of MASTER OF BUSINESS
ADMINISTRATION From 03.04.2023 to 07.04.2023 during the Academic
Year 2022-2023.

C. Ganesan Raju

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DEPARTMENT OF MANAGEMENT STUDIES

Certificate of Completion

This is to certify that Mr/Ms/Mrs. Abinaya G

of year MBA has successfully completed the Value Added Course
"Structural Equation Model (SEM) and CFA - Average Variance Extracted
(AVE) Using AMOS" Conducted by Department of MASTER OF BUSINESS
ADMINISTRATION From 03.04.2023 to 07.04.2023 during the Academic
Year 2022-2023.

C. Subashini

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