

SINDHI COLLEGE 33/2B, KEMPAPURA HEBBAL BANGALORE-560024

Students Field Projects/ Interships - UG & PG

ACADEMIC YEAR: 2019 - 20

SL.NO	Reg Number	STUDENT NAME	COURSE	PROJECT TITLE	GUIDE NAME
1	17NMSB7063	SHWETHA B	BCA	E-PAYMENT	Prof. Radhika E K
2	17NMSB7053	SAHANA M	BCA	DETECTING MALICIOUS APPS	Prof. Radhika E K
3	17NMSB7055	SANDHYA RM	BCA	RUBEL RESTAURANT	Prof. Radhika E K
4	17NMSB7079	VIGNESHWAR SINGH P	BCA	ONLINE LIBRARY MANAGEMENT	Prof. Radhika E K
5	17NMSB7080	VINAY CHANDRA M	BCA	ONLINE VOTING SYSTEM	Prof. Radhika E K
6	17NMSB7008	ANJALI MARY	BCA	AUTOMATIC MINING FACTORS	Prof. Radhika E K
7	17NMSB7057	SHARATH KUMAR R	BCA	ONLINE LIBRARY MANAGEMENT SYSTEM	Prof. Radhika E K
8	17NMSB7052	SAGAR RAO G	BCA	ONLINE MARRIAGE REGISTRATION SYSTEM	Prof. Hemalatha R
9	17NMSB7054	SAI SANDHYA D P	BCA	e - SHIKSHA	Prof. Hemalatha R
10	17NMSB7046	RAKHI KUMARI	BCA	STANDARD COMPANY WEBSITE	Prof. Hemalatha R
11	17NMSB7071	SYED SHAHBAAZ	BCA	CLOUD COMPUTING SECURITY	Prof. Hemalatha R
12	17NMSB7076	VAIBHAV G V	BCA	ONLINE UTILITY SERVICES BOOKING	Prof. Hemalatha R
13	17NMSB7072	D TAHIR FAIZAN	BCA	ATTENDANCE MANAGEMENT SYSTEM	Prof. Hemalatha R
14	17NMSB7034	NATARAJ C	BCA	ONLINE VOTING SYSTEM	Prof. Hemalatha R
15	17NMSB7019	HARSHITHA S	BCA	SAPLING	Prof. Hemalatha R
16	17NMSB7040	PALLAVI B M	BCA	COLLEGE FEST ORGANIZER	Prof. Hemalatha R

This document consists of nine rags.

17NMSB7059	SHIVAM BHARADWAJ	BCA	IMAGE TREASURE	Prof. Hemalatha R
17NMSB7028	MANISHA KUMARI	BCA	CLOUD BASED CONTENT MANAGEMENT SYS	Prof. Hemalatha R
17NMSB7064	M SOLOMON JACOB	BCA	BIKE DISPLAY AND REGISTRATION SYSTEM	Prof. Hemalatha R
17NMSB7001	ABDUR RAHAMAN SHER	BCA	TRADE MANAGEMENT	Prof. Hemalatha R
17NMSB7026	LALITH PRASAD M	BCA	TO DETECT MALICIOUS FACEBOOK APPLICAT	Prof. Hemalatha R
17NMSB7009	ANKIT H CHANDWANI	BCA	BOOKING MANAGEMENT MODEL FOR CAR SP	Prof. Hemalatha R
17NMSB7005	AKASH ANAND KHANDA	BCA	APPOINTMENT SCHEDULING MODELOF	Prof. Hemalatha R
17NMSB7017	GAYITHRI G S	BCA	ONLINE ART GALLERY	ProfKalaivani Y S
17NMSB7011	ASHWIN PRADEEP	BCA	EMPLOYEE LEAVE MANAGEMENT SYSTEM	ProfKalaivani Y S
17NMSB7062	SHREYA S	BCA	ELECTRONIC VOTING SYSTEM	ProfKalaivani Y S
17NMSB7021	JUNAID SHARIFF	BCA	ONLINE TOURISM PACKAGE	ProfKalaivani Y S
17NMSB7010	ARUN KUMAR D M	BCA	ONLINE EXAMINATION SYSTEM	ProfKalaivani Y S
17NMSB7016	CHANDRU S	BCA	CRIME MANGEMENT SYSTEM	ProfKalaivani Y S
17NMSB7004	ADITYA S AVALAKKI	BCA	MASS MAIL DESPATCH SOFTWARE	ProfKalaivani Y S
17NMSB7058	SHASHANK V	BCA	HOTEL AND TRAVEL MANAGEMENT SYSTEM	ProfKalaivani Y S
17NMSB7067	SUMIYA BEE S	BCA	BUG REPORT MANAGEMENT SYSTEM	ProfKalaivani Y S
17NMSB7029	MEHUL PATEL	BCA	MINI SHOPPING STORE	ProfKalaivani Y S
17NMSB7027	LOHITH	BCA	FACILITATING DOCUMENTATION ANNOTATION	ProfKalaivani Y S
17NMSB7049	ROHAN N	BCA	ONLINE MARRIAGE REGISTRATION SYSTEM	ProfKalaivani Y S
17NMSB7050	KARTHIK S	BCA	EMPLOYEE LEAVE MANAGEMENT SYSTEM	ProfKalaivani Y S
	17NMSB7028 17NMSB7064 17NMSB7001 17NMSB70026 17NMSB7009 17NMSB7005 17NMSB7017 17NMSB7011 17NMSB7011 17NMSB7062 17NMSB7021 17NMSB7010 17NMSB7016 17NMSB7016 17NMSB7004 17NMSB7058 17NMSB7058 17NMSB7029 17NMSB7027 17NMSB7049	17NMSB7028 MANISHA KUMARI 17NMSB7064 M SOLOMON JACOB 17NMSB7001 ABDUR RAHAMAN SHER 17NMSB7026 LALITH PRASAD M 17NMSB7009 ANKIT H CHANDWANI 17NMSB7005 AKASH ANAND KHANDA 17NMSB7017 GAYITHRI G S 17NMSB7011 ASHWIN PRADEEP 17NMSB7062 SHREYA S 17NMSB7021 JUNAID SHARIFF 17NMSB7010 ARUN KUMAR D M 17NMSB7016 CHANDRU S 17NMSB7004 ADITYA S AVALAKKI 17NMSB7058 SHASHANK V 17NMSB7067 SUMIYA BEE S 17NMSB7029 MEHUL PATEL 17NMSB7049 ROHAN N	17NMSB7028 MANISHA KUMARI BCA 17NMSB7064 M SOLOMON JACOB BCA 17NMSB7001 ABDUR RAHAMAN SHER BCA 17NMSB7026 LALITH PRASAD M BCA 17NMSB7009 ANKIT H CHANDWANI BCA 17NMSB7005 AKASH ANAND KHANDA BCA 17NMSB7017 GAYITHRI G S BCA 17NMSB7011 ASHWIN PRADEEP BCA 17NMSB7062 SHREYA S BCA 17NMSB7061 JUNAID SHARIFF BCA 17NMSB7010 ARUN KUMAR D M BCA 17NMSB7016 CHANDRU S BCA 17NMSB7004 ADITYA S AVALAKKI BCA 17NMSB7005 SHASHANK V BCA 17NMSB7067 SUMIYA BEE S BCA 17NMSB7029 MEHUL PATEL BCA 17NMSB7049 ROHAN N BCA	17NMSB7028 MANISHA KUMARI BCA CLOUD BASED CONTENT MANAGEMENT SYS 17NMSB7064 M SOLOMON JACOB BCA BIKE DISPLAY AND REGISTRATION SYSTEM 17NMSB7001 ABDUR RAHAMAN SHER BCA TRADE MANAGEMENT 17NMSB7026 LALITH PRASAD M BCA TO DETECT MALICIOUS FACEBOOK APPLICAT 17NMSB7009 ANKIT H CHANDWANI BCA BOOKING MANAGEMENT MODEL FOR CAR SF 17NMSB7005 AKASH ANAND KHANDA BCA APPOINTMENT SCHEDULING MODELOF DOCTOR SPECIFIC 17NMSB7017 GAYITHRI G S BCA ONLINE ART GALLERY 17NMSB7011 ASHWIN PRADEEP BCA EMPLOYEE LEAVE MANAGEMENT SYSTEM 17NMSB7062 SHREYA S BCA ELECTRONIC VOTING SYSTEM 17NMSB7021 JUNAID SHARIFF BCA ONLINE TOURISM PACKAGE 17NMSB7010 ARUN KUMAR D M BCA ONLINE EXAMINATION SYSTEM 17NMSB7016 CHANDRU S BCA CRIME MANGEMENT SYSTEM 17NMSB7016 CHANDRU S BCA CRIME MANGEMENT SYSTEM 17NMSB7004 ADITYA S AVALAKKI BCA MASS MAIL DESPATCH SOFTWARE 17NMSB7067 SUMIYA BEE S BCA BUG REPORT MANAGEMENT SYSTEM 17NMSB7067 SUMIYA BEE S BCA BUG REPORT MANAGEMENT SYSTEM 17NMSB7029 MEHUL PATEL BCA MINI SHOPPING STORE 17NMSB7049 ROHAN N BCA ONLINE MARRIAGE REGISTRATION SYSTEM

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37	17NMSB7074	THILAK	BCA	HOTEL RESERVATION SYSTEM	ProfKalaivani Y S
38	17NMSB7077	VAMSHI S	BCA	e- MARKET MANAGEMENT SYSTEM	ProfKalaivani Y S
39	17NMSB7050	ROHAN S	BCA	FEST MANAGEMENT SYSTEM	ProfKalaivani Y S
40	17NMSB7051	RUSHIKESH NAIDU T	BCA	COLLEGE CHAT BOT - USING ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	ProfKalaivani Y S
41	17NMSB7038	P K THARUN RAJ	BCA	INTELLIGENCE AND MACHINE LEARNING STOCK MANAGEMENT AND INVENTORY SYSTEM	ProfKalaivani Y S
42	17NMSB7073	TEJAS R	BCA	BLOOD BANK MANAGEMENT SYSTEM	ProfKalaivani Y S
43	17NMSB7007	AKSHAY MEHLA	BCA	FASHION BOOK	ProfKalaivani Y S
44	17NMSB7043	YASMIN	BCA	ONLINE ORGANIC FOOD STORE	Prof Radhika E K
45	17NMSB7018	HARSHA	BCA	ONLINE BIRTH CERTIFICATE SYSTEM	Prof Priya Hari
46	17NMSB7061	SHREELAKSHMI	BCA	PERSONALITY ASSESSMENT AND RESULT MANAGEMENT SYSTEM	Prof Radhika E K
47	17NMSB7039	PACHILA ANUPAMA	BCA	MANAGEMENT SYSTEM THE EXECUTION COMPONENT IN THE UNITED CLOUD	Prof Priya Hari
48	17NMSB7065	SOUMYA	BCA	JOB PORTAL	Prof Radhika E K
49	17NMSB7056	SHARAN	BCA	TRAVEL PACKAGE RECOMMENDATION	Prof Radhika E K
50	17NMSB7060	SHRAVANI	BCA	STAY FIT	Prof Priya Hari
51	17NMSB7024	KEDHAR	BCA	SCHOOL MANAGEMENT SYSTEM	Prof Hemalatha R
52	17NMSB7015	CHANDANA K	BCA	TOURISM MANAGEMENT SYSTEM	Prof Hemalatha R
53	17NMSB7047	RAM PRASAD	BCA	CURFEW e PASS MANAGEMENT SYSTEM	ProfKalaivani Y S
54	17NMSB7006	AKHILASH K H	BCA	ELECTRONIC PRODUCT STORE	ProfKalaivani Y S

55	17NMS85006	KARTHIK K	BSc		Prof .Akilandeswari R
56	17NMS85008	MANJUNATH S NAIKAR	BSc	VOICE OPERATED ROBOTIC USING ARDUINO AND BLUE TOOTH MODULE	Prof .Akilandeswari R
57	17NMS85019	VISHWAS K G	BSc	THE BEST TOOM MODEL	Prof .Akilandeswari R
58	17NMS85005	DEEPANSHU KUMAR	BSc		Prof .Akilandeswari R
59	17NMS85007	MAHESH K S	BSc	LED MATRIX DISPLAY BOARD	Prof .Akilandeswari R
60	17NMS85016	SUJAY KUMAR V	BSc		Prof .Akilandeswari R
61	17NMS85014	SHAMATHA S SHETTY	BSc		Prof .Akilandeswari R
62	17NMS85009	P KAVYA	BSc	AUTOMATIC SWITCHING ON AND OFF OF LIGHTS USING AURDINO	Prof .Akilandeswari R
63	17NMS85011	RAKSHITHA B K	BSc		Prof .Akilandeswari R
64	17NMS85013	SAQUIB AHMED	BSc		Prof .Akilandeswari R
65	17NMS85004	C SIVA NARAYANA REDI	BSc	DESIGN AND IMPLEMENTATION OF SMART CAR PARKING SYSTEM USING ARDUINO	Prof .Akilandeswari R
66	17NMS85012	ROHITH A	BSc		Prof .Akilandeswari R
67	17NMS85002	CHANDANA M	BSc	BLUETOOTH CONTROLLED ROBOT	Prof .Akilandeswari R
68	17NMS85003	CHANDANA V	BSc	BLUETOOTH CONTROLLED ROBOT	Prof .Akilandeswari R
69	17NMS85006	KARTHIK K	BSc		Prof. Radhika E K
70	17NMS85008	MANJUNATH S NAIKAR	BSc	RESTAURANT MANAGEMENT SYSTEM	Prof. Radhika E K
71	17NMS85019	VISHWAS K G	BSc		Prof. Radhika E K
72	17NMS85007	MAHESH K S	BSc	DIPLOCLOUD EFFICIENT AND SCALABLE	Prof. Radhika E K
73	17NMS85016	SUJAY KUMAR V	BSc	MANAGEMENT OF RDF DATA IN THE CLOUD	Prof. Radhika E K
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74	17NMS85014	SHAMATHA S SHETTY	BSc		Prof. Radhika E K
75	17NMS85009	P KAVYA	BSc	FACILITATING DOCUMENT ANNOTATION USING CONTENT AND QUERYING VALUE	Prof. Radhika E K
76	17NMS85011	RAKSHITHA B K	BSc	The contract of the contract o	Prof. Radhika E K
77	17NMS85013	SAQUIB AHMED	BSc		Prof. Radhika E K
78	17NMS85004	C SIVA NARAYANA REDI	BSc	APPOINTMENT SCHEDULING MODEL OF DOCTOR SPECIFIC	Prof. Radhika E K
79	17NMS85012	ROHITH A	BSc	- GOTON STEERING	Prof. Radhika E K
80	17NMS85002	CHANDANA M	BSc		Prof. Radhika E K
81	17NMS85003	CHANDANA V	BSc	EMPLOYEE LEAVE MANAGEMENT SYSTEM	Prof. Radhika E K
82	17NMS85005	DEEPANSHU KUMAR	BSc		Prof. Radhika E K
83	CM181201	Anusha A S	M.Com	Relevance of Green Banking Products in Cashless Era – A Study at Kolar District	Dr.Rahul K Kavishwar
84	CM181202	Arfiya Sultana M S	M.Com	A Study on Value Chain Analysis in Vamso Biotec Pvt. Ltd., Bangalore	Dr.Uma Maheswari K
85	CM181203	Chandana S	M.Com	Role of Microfinance and Self-help Group in Women Empowerment: A Study of Ramanagaram District	
86	CM181204	Girish Y S	M.Com	Performance Evaluation of Credit Co-operatives using CAMELS Model – A Study With Special Reference to Dhaksha Credit Co-Operative Society,	Prof. Sowmya G S
87	CM181205	Guruabhishek N	M.Com	Analysis on Personal Loan to Salaried Employees in Savensa Business Solution, Bengaluru	Prof. Shinny Wesley
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89	CM181207	Indu V	M.Com	A Study on Impact of FDI and FII on Productivity at INDIC EMS Electronics Pvt. Ltd., Doddaballapur	Dr.Uma Maheswari K
90	CM181208	Jancy R	M.Com	An Impact of Transportation Cost and Operational Efficiency with reference to KSRTC Chikkaballapur	Dr. Uma Maheswari K
91	CM181209	Kiran Meghana V	M.Com	A Study on Role of Government in Promoting Women Entrepreneurship in India	Prof. Sowmya G S
92	CM181210	Mahalakshmi M	M.Com	A Study on Investment Pattern of Salaried Class with reference to Higher Education Institutions at Yelahanka A Study on Retail Baking in Sericulture's Cum	Prof.Shinny Wesley
93	CM181211	Monika S	M.Com	A Study on Retail Baking in Sericulture's Cum Farmer's Service Co-Operative Society Ltd., Hoskote	Dr.Rahul K Kavishwar
94	CM181212	Mouna K L	M.Com	A Study on Digital Payments and Its Accessibility For Street Vendors in Hosakote, Bengaluru Rural	Dr.Uma Maheswari K
95	CM181213	Mubasheera Khanam E	M.Com	A Study on Impact of Goods and Services Tax on Pharmaceutical Retailing with reference to North Bengaluru	(9)
96	CM181214	Mujahid Baig	M.Com	Bengaluru Measurement of Service Quality of an Automobile Service Centre using SERVQUAL Model – A Study at Srijaya Motors, Yelahanka, Bengaluru	Prof. Sowmya G S
97	CM181215	Narayana Erappa Kalakeri	M.Com	at Sriiava Motors Yelahanka Bengaluru A Study on Banking Service for Financial Inclusion with special reference to IndusInd Bank Ltd., Basavanagudi	Prof. Shinny Wesley
98	CM181216	Niranjan M	M.Com	A Study on Impact of Logistics Management Practices on Performance of the Company, A Special Reference With VRL Logistics Limited, Bengaluru	Dr. Rahul K Kavishwar
99	CM181217	Nithun Rao V N	M.Com	A Study on Resource Mobilisation and Fund Raising Strategies for Open School Education with reference to Sindhi Seva School	
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100				A Study on Start M. L. W. L. W.	
100	CM181218	Pooja M	M.Com	A Study on Stock Market Volatility with reference to IT Sector at Sharekhan Ltd	Dr. Rahul K Kavishwa
101	CM181219	Preethi D S	M.Com	A Study on Investment Preferences of Salaried Employees with special reference to Doddaballapur, Bangalore Rural District	Prof. Sowmya G S
102	CM181220	Prem Kumar M	M.Com	A Study on Brand Building and Business Promotion Strategies of Royal Enfield, Bengaluru North	Prof. Shinny Wesley
103	CM181221	Rajashekhara S P	M.Com	A Study on Process of Agricultural Loan and Its Recovery at Sericulture Cum Farmers Service Co- operative Society, Nalluru	Dr. Rahul K Kavishwar
104	CM181222	Rakshitha D C	M.Com	A Study on Demand Estimate of Milk for Institutional Sales at Kolar-Chikkaballapura District Co-operative Milk Producers Union Ltd., Kolar	Dr. Uma Maheswari K
105	CM181223	Ranjitha R	M.Com	A Study on Sustainability Reporting Practices of Indian Companies	Prof. Sowmya G S
106	CM181224	Rashmi G V	M.Com	A Study on Measuring Efficiency of Exedy Clutch India Private Limited using DuPont and Altman Z Score Models	Prof.Sowmya G S
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111	CM181229	Sushmitha B	M.Com	A Study on Economic Value Added as a Technique of Performance Evaluation at RL Fine Chem Pvt. Ltd., Yelahanka, Bengaluru	Prof. Sowmya G S
112	CM181230	Swathi V Murthy	M.Com	Job Costing is an Activity Based Costing: An Empirical Evidence from Karnataka Warehousing Corporation, Bengaluru	Prof. Shinny Wesley
113	CM181231	Vinay Shankar M R	M.Com	A Study on Valuation of Impacts on Cost Benefit Analysis in Suprajit Automotive Private Limited, Doddaballanur A Study on Project Cost Management with reference	Dr. Rahul K Kavishwar
114	FA180201	Ankitha S D	MFA	to ESPEEVEE Architects and Interior Designers,	Dr. Rahul K Kavishwar
115	FA180202	Apoorva M V	MFA	A Study on Non-Performing Assets with reference to Sree Eswara Seva Credit Co-operative Society, Bengaluru	Dr. Uma Maheswari K
116	FA180204	Lalith J	MFA	A Study on Pricing Strategies at Vindhya Enterprises, Bengaluru	Dr. Rahul K Kavishwar
117	FA180205	Manoj Kumar	MFA	An Evaluation of Gold Loan Schemes at Mannapuram Finance Ltd.	Prof. Sowmya G S
118	FA180206	Monish M	MFA	A Study on Liquidity Risk Management With Reference to Rittal India Private Limited, Bengaluru	Prof. Shinny Wesley
119	FA180207	Ravi Prakash V G	MFA	A Study on Role of Claims Management in The Growth of A General Insurance Firms With Reference to The Oriental Insurance Company A Study on Input Tax Credit relating to Hotel	Dr. Rahul K Kavishwar
120	FA180208	Rithu Veeresh	MFA	A Study on Input Tax Credit relating to Hotel Industry with special reference to ITC Windsor, Bengaluru	Dr. Uma Maheswari K
121	FA180209	Sagar B P	MFA	A Study on Credit Management at Udaya Souharda Credit Co-operative Society Ltd., Hanumanthnagar, Bengaluru	Prof. Sowmya G S

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122	FA180210	Srikanth V	MFA	A Study on Performance Evaluation of Mutual Fund Schemes at Kotak Securities, Bangalore	Prof. Sowmya G S
123	FA180211	Suhas H	MFA	A Study on Value Chain Analysis in Supreme Solar Systems, Yelahanka, Bangalore	Prof. Shinny Wesley
124	FA180212	Vasanth Kumar S	MFA	A Study on Cost Control and Its Impact on Cost of Production at Cattle Feed Mixing Plant, Bengaluru	Dr. Rahul K Kavishwar
125	FA180213	Vinay B	MFA	A Study on Segment Reporting at VRL Logistics Ltd., Bengaluru	Dr. Uma Maheswari K
126	FA180214	Vishnu K	MFA	A Study on Customer Relationship Management at Perfect Riders, Bengaluru	Dr. Rahul K Kavishwar
127	FA180215	Walaa Hisham Mustafa Ahmed	MFA	A Study on Economic Trends and Their Impact on Gold	Prof. Sowmya G S
128	FA180216	Yogitha M	MFA	A Study on Yield Management at BESCOM, Bengaluru	Prof. Shinny Wesley

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PRINCIPAL SINDHI COLLEGE #33/2B Kempapura, Hebbal, Bengaluru - 560 024.



SINDHI COLLEGE

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Permanently Affiliated to Bangalore University

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An ISO 9001:2015 Certified institution

Phone: 080-2363 7543/7544, 4177 8288, Tele fax:23637544

Email:mail@sindhicollege.com

Web:www.sindhicollege.com

CERTIFICATE

This is to certify that the project entitled

"ATTENDANCE MANAGEMENT SYSTEM"

Submitted in partial fulfillment of the requirement for the award of the degree

Bachelor of Computer Applications [BCA]

Is a result of the bonafide work carried out by:

D. TAHIR FAIZAN

17NMSB7072

During the academic year 2019-20

Centre

Date

Head of the Department of Computer Science

singinghi College

loffe 03/128 pičebbal, Kempapura Bengaluru - 560 024.

SINDHI COLLEGE #33/2B Kempapura, Hebbal,

Bengaluru - 560 024.

Bachelor Of Computer Application [BCA]

(Affiliated To Bangalore University)

33/2B, Kempapura, Hebbal, Bangalore – 560024



CERTIFICATE

Awarded to <i>SHIVAM</i>	BHAK	DWAJ	
This is to certify that the project en	ntitled	IMAGE	TREASURE
bmitted In partial fulfilment of the	he requi	rement for the de	egree of Bachelor of Comput

GUIDE

Signatures of Examiners:

H.O.D

Head of the Department of Computer Science

Sindhi College No. 33/2B, Hebbal, Kempapura Bengaluru - 560 024.

PRINCIPAL SINDHI COLLEGE #33/2B Kempapura, Hebba Bengaluru - 560 024.

Bachelor Of Computer Application [BCA]

(Affiliated To Bangalore University)

33/2B, Kempapura, Hebbal, Bangalore – 560024



Awarded to	SOLOMON	JACOB		
This is to certify that the proj	ect entitled	Bille	Display	and
regis trati			J	Submitted
In partial fulfilment of the re	quirement for the	degree of E	Sachelor of Com	puter Application
of Bangalore University.			,	
GUIDE Signatures of Examiners:	H.O.D Head of the Departm Sindhi College No. 33/2B, He	bbal, Kem	SINE napur#33/2B k	INCIPAL PRINCIPAL OHI COLLEGE Gempapura, Hebbal paluru - 560 024.
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Phone: 080 - 2363 7543/44, 4117 8288, Fax: 080 2363 7544

Email: mail@sindhicollege.com, Website: www.sindhicollege.com

CERTIFICATE

This is to certify that the project entitled

"CLOUD COMPUTING SECURITY"

Submitted in the partial fulfilment of requirement for the award of degree

Bachelor Of Computer Application [BCA]

Is a result of bonafide work carried out by:

Syed Shahbaz :17NMSB7071

During the Academic Year: 2019-2020

Examination Centre

partment of Computer Science **Date of Practical Examination**

#33/2B Kempapura, Hebbal, Bengaluru - 560 024.

DATE: 10/10/2020

CENTRE: SINDHI COLLEGE

Sindhi College

Bachelor Of Computer Application [BCA]

(Affiliated To Bangalore University)

33/2B, Kempapura, Hebbal, Bangalore – 560024



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Awarded to LALITH	PRASAD	M		
This is to certify that the pro	ject entitled	DETECT	MALICIOUS	
FACE BOOK	APPS			_ Submitted
In partial fulfilment of the re	equirement for	the degree of I	Bachelor of Computer A	pplication of
Bangalore University.		Dadh	Jeer	<i>,</i>
GUIDE W		.O.D	PRÍNCIPAL	L så k
///	Head of the Depart	tment of Computer So	cience SINDHI COLL #33/2B Kempapun	EGE
Signatures of Examiners:	No. 33/2B, H Bengaluru -	ebbal, Kempa	pura Bengaluru - 56	
DEPARTMENT OF COMPU	TER SCIENCE			
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CERTIFICATE

This is to certify that the project entitled

"ONLINE MARRIAGE REGISTRATION SYSTEM"

Submitted in the partial fulfilment of requirement for the award of degree

Bachelor Of Computer Application [BCA]

Is a result of bonafide work carried out by:

1. Sagar Rao G:17NMSB7052

During the Academic Year: 2019-2020

Signature of guide

Signature of H.O.D

Date of Practical Examination: 10-10-202

Examination Centre

: STNDHI COLLEGE

DEPARTMENT OF Principal

CONTROL OF THE COLLEGE

33/28, Kempanira, Hebbal,

Bengaluru - 580 6249-24

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Submitted in the partial fulfillment of requirement for the award of degree

Bachelor Of Computer Application [BCA]

Is a result of bonafide work carried out by:

SHWETHA . B: 17NMSB7063

During the Academic Year: 2019-2020

GUIDE

H.O.D

Head of the Department of Computer Science

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Radh GUIDE

H.O.D

Head of the Department of Computer Science

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Sindhi College

Bengaluru - 560 024.

PRINCIPAL SINDHI COLLEGE No. 33/2B, Hebbal, Kempapura 133/2B Kempapura, Hebbal,

Bengaluru - 560 024.

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of Bangalore University.		
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of Bangalore University.		
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	H.O.D Head of the Department of Computer Scient Sindhi College No. 33/2B, Hebbal, Kempapu Bengaluru - 560 024.	PRINCIPAL SINDHI COLLEGE ra _{#33/28} Kempapura, Hebbal,

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Bangalore University.			
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Submitted in the partial fulfillment of requirement for the award of degree

Bachelor Of Computer Application [BCA] Is

a result of bonafide work carried out by:

1. Sharan PM

17NMSB7056

During the Academic Year: 2020-2021

Head of the Department of Computer Science Sindhi College

Date

10/10/2020

No. 33/2B, Hebbal, Kempapura

:SINDHI COLLEGE Centre

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Awardedto

ANKITOH	· CHANDWANI	
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FOR CAK SPECIFI		Submitted
In partial fulfilment of the req	quirement for the degree of Bachelor of	of Computer Application
Of BangaloreUniversity.		
GUIDE JU	Radh H.O.D Head of the Department of Computer Science	PRINCIPAL
DEPARTMENT OF COMPUTE. SINDHICOLLE	Sindhi College No. 33/2B, Hebbal, Kempapura	SINDHI COLLEGE #33/2B Kempanum Hall
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Signatures of Examiners:	No. 33/2B, Hebbal, Kempa	Bengaluru - 560 024.
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This is to certify that the project entitled

"BIKE DISPLAY AND REGISTRATION SYSTEM"

Submitted in the partial fulfilment of requirement for the award of degree

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Is a result of bonafide work carried out by:

M SOLOMON JACOB :17NMSB7064

During the Academic Year: 2019-2020

Signature of guide

Examination Centre

Signature of H.O.D

Date of Practical Examination : Headoi the Dagartment of Computer Science Sindhi College

: No 1939 28, Hebbal, Kempapura Bengaluru - 560 024.

Bignature of Principal

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Bangalore University.		
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In partial fulfilment of the requ	uirement for the degree of Ba	achelor of Computer	Application
Of Bangalore University.			2
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in partial fulfillment of the
requirement for the degree of Bachelor of Computer Applications of Bangalore University.
in partial fulfillment of the

Head of the Department of Computer Science Sindhi College No. 33/2B, Hebbal, Kempapura

Signature of Examiners Bengaluru - 560 024.

PRINCIPAL SINDHI COLLEGE #33/2B Kempapura, Hebbal,

Principal

Bengaluru - 560 024.

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DEPARTMENT OF COMPUTER SCIENCE SINDHI COLLEGE #33/2B, Kempapura, Haubala Bangalore-24 VALUED
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Bachelor Of Computer Application [BCA]

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In partial fulfillment of the rec	quirement for t	he degree of Bachelor of	of Computer Application
of Bangalore University.			,
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SYSTEM"

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Bachelor Of Computer Application [BCA]

Is a result of bonafide work carried out by:

1. SHARATH KUMAR R : 17NMSB7057

During the Academic Year: 2020-2021

GUIDE

Date:

H.O.D

Head of the Department of Computer Science

Sindhi College

No. 33/2B, Hebbal, Kempapura#33/2B Kempapura, Hebbal,

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10/10/2019

Sindhi College Bachelor Of Computer Application [BCA] (Affiliated To Bangalore University) # 33/2B, Kempapura, Hebbal, Bangalore 6002



SHRAVANI Awarded to This is to certify that the project entitled STAYFIT Submitted In partial fulfilment of the requirement for the degree of Bachelor of Computer Application of Bangalore University. Radh QuiDE Head of the Department of Computer Science Sindhi College Signatures of Examiners: No. 33/2B, Hebbal, Kempapura PRINCIPAL DEPARTMENT OF COMPUTE Bengaluru - 560 024. #33/2B Kempapura, He Bengaluru - 560 024 #33/2B, Kempapura Hebbala Bangalore-24 y Meloloso FXAMINE

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In partial fulfillment of the requirement for the degree of Bachelor of Computer Application of BangaloreUniversit

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Bachelor Of Science [BSc - Computer Science]

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Awarded to SUJAY K	MAR.V	
This is to certify that the project	t entitled Dept. Cloud 1	Efficient And
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Science) of Bangalore Univers	sity.	
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DEPARTMENT OF COMPUTER	Sindhi College	#33/2B Kempapura, He. Bengaluru - 560 024

Bengaluru - 560 024.

Signatures of Examiners: E No.33/2B, Hebbal, Kempapura

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Awarded to

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Bangalore University.				
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In partial fulfillment of the requ	quirement for the degree of Bachelor of Computer Application	n
of Bangalore University.		
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Signatures of Examiners:	Sindhi College No. 33/2B, Hebbal, Kempapura #33/2B Kempapura, Hebbal, Kempapura Bengaluru - 560 024.	3F
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	GUIDE Signatures of Examiner	H.O.D Head of the Department of Computer (Sindhi College No. 33/2B, Hebbal Kanada	PRINCIPAL PRINCIPAL Science SINDHI COLLEGE #33/28 Kempanus
	DEPARTMENT OF C	Head of the Department of Computer Sindhi College No. 33/2B, Hebbal, Kempares: Bengaluru - 560 024. COMPUTER SOLITOR	PRINCIPAL PRINCIPAL Science SINDHI COLLEGE #33/28 Kempapura, Hebbal, Bengaluru - 560 024.
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Awarded to	Harsha KV	
This is to certify that the p	roject entitled <u>Coline</u> Bi	oth
certificate	System	Submitted
In partial fulfillment of the	e requirement for the degree of Bachel	or of Computer Application
of Bangalore University.		
GUIDE	Radh H.O.D	PRINCIPAL
Signatures of Examiners:	Head of the Department of Computer Science Sindhi College No. 33/28, Hebbal, Kempapura Bengaluru - 560 024	PRINCIPAL SINDHI COLLEGE #33/2B Kempapura, Hebbal, Bengaluru - 560 024.
DEPARTMENT OF COL SINDHIC (#33/28, Kempapura, ha	MPUTER SCIENCE	
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Bachelor Of Computer Application [BCA]

(Affiliated To Bangalore University)

33/2B, Kempapura, Hebbal, Bangalore – 560024



	Awarded to	JUNAI	D SHA	RIFF	
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	In partial fulfilmen	t ofthe requirement	for the degree of	Bachelor of Computer A	Application
		of Ba	ngalore Universit	y.	
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Bachelor Of Science [BSc]

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CERTIFICATE

Awardedto _	17NMS85006,	17NMS85008	17NMS 85019	
This is to cer	rtify that the projectentitle	d Restuarant	Management	
Submitted In partial fulfillment of the requirement for the degree of				
Bachelor of C	Computer Application of I	BangaloreUniversity.		

H.O.D

Head of the Department of Computer Science#33/2B Kempapura, Hebbal, Sindhi College

Signatures of Examiners: UTER S No. 33/28, Hebbal, Kempapura

SINDHI COLLE Bengaluru - 560 024.

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Bachelor Of Computer Application [BCA]

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Awarded to 17NMS85014, 17NMS85009, 17NMS85011
This is to certify that the project entitled <u>facilitating</u> obscurrent
This is to certify that the project entitled <u>facilitating obscurrent</u> annetation using content and querying value Submitted
In partial fulfillment of the requirement for the degree of Bachelor of Computer Application
of Bangalore University.

GUIDE

H.O.D

Head of the Department of Computer Science Sindhi College No. 33/2B, Hebbal, Kempapura

Rodh

Bengaluru - 560 024.

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PRINCIPAL SINDHI COLLEGE #33/2B Kempapura, He' Bengaluru - 560 024.

Signatures of Examiners:

1. Rodh

Bachelor Of Computer Application [BCA]

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Awarded to Rathprasad A This is to certify that the project entitled Curfew e-pass	
In partial fulfillment of the requirement for the degree of Bachelor of Computer A	_ Submitted
of Bangalore University.	

GUIDE

Rodh_ H.O.D

Head of the Department of Computer Science Sindhi College No. 33/2B, Hebbal, Kempapura PRINCIPAL SINDHI COLLEGE #33/2B Kempapura, Hebbal, Bengaluru - 560 024.

33/28, Kempapura, Hebbala, Bangalore-24

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2.

Bachelor of Science [BSC]

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H.O.D

Head of the Department of Computer Science
Sindhi-Gollege

Radh

DEPARTMENT OF COMPUTER SCNo. 33/28, Hebbal, Kempapura Signatures of Examiners: E Georgaluru - 560 024.

33/2B, Kempapura, Hebbala, Bangalore-24

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	ONLINE	ART	GALLER	Submitted
	In partial fulfillment of the re	equirement for the de	gree of Bachelor o	of Computer Application
	of Bangalore University.			
	GUIDE Signatures of Examiners:	H.O.D Head of the Department of Sindhi College No. 33/2B, Hebba Bengaluru - 560	f Computer Science	PRINCIPAL PRINCIPAL SINDHI COLLEGE 3/28 Kempapura, Hebbal, Bengaluru - 560 024.
1	DEPARTMENT OF COMP SINDHICO #33/28, Kompania	LLEGE Ha Bangalore-24		

DATE: 10/10/2020

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Bachelor Of Computer Application [BCA]

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	t entitled ONLINE irement for the degree of Bachelor of H.O.D Head of the Department of Computer Science Sindhi College No. 33/2B, Hebbal, Kempapura Bengaluru - 560 024.

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This is to certify that the project of	entitled "Rubel Res	tamant
in partial fulfilment of the re	equirement for the degree of B	achelor of Computer
Applications of Bangalore Univer	rsity.	
Qook Guide Signature of Examiners	H.O.D Head of the Department of Computer Science Sindhi College No. 33/2B, Hebbal, Kempapura Bengaluru - 560 024.	Principal PRINCIPAL SINDHI COLLEGE #33/2B Kempapura, Hebbal, Bengaluru - 560 024.
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Signatures of Examiners:	Sindhi College No. 33/28, Hebbal, Kempapura Bengaluru - 560 024. SINDHI COLLEGE Bengaluru - 560 024.
DEPARTMENT OF CUME SINDHI COLLEGE #33/28, Kempapura, resolda, Bar 2. EXAMINER'S	

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Awarded to	Rohan. N.		
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In partial fulfillment of th	e requirement for the degree of	f Bachelor of Compu	iter Application
of Bangalore University.			
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	Head of the Department of (Computer Science	PRINCIPAL
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Bachelor Of Computer Application [BCA]

Is a result of bonafide work carried out by:

1. HARSHITHA, S

17NMSB7019

PRINCIPAL

Bengaluru - 560 024.

During the Academic Year: 2019-2020

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Date

H.O.D

Head of the Department of Computer Science

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Α	warded to Kee	dhar, N	
Т	This is to certify that the project	t entitled School Mana	agment
_	System		Submitted
I		irement for the degree of Bachelor of	f Computer Application
,	of Bangalore University.		
U	Radh— GUIDE Signatures of Examiners:	H.O.D Head of the Department of Computer Science Sindhi College No. 33/2B, Hebbal, Kempapura Bengaluru - 560 024.	PRINCIPAL
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SYSTEM"

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1. Chandana K: 17NMSB7015

During the Academic Year: 2020-2021

Date:

Head of the Department of Computer Science

Sindhi College

No. 33/2B, Hebbal, Kempapura

Centre: SINDHI COLI

10/10/2020

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SHRAVANI A.N: 17NMSB7060

During the Academic Year: 2019-2020

Signature of guide

Signature of H.O.D

Date OfPractical Examination:

Radh

Signature of Principal
PRINCIPAL

Examination Centre Department of Computs Science COLLEGE Bengaluru - 560 024.

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Is a result of bonified work carried out by:

AKSHAY MEHLA:

17NMSB7007

During the Academic Year: 2019-2020

Signature of guide

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Signature of Principal

indhi College

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Date of Practical Examination #33/2B Kempapura (Hebbal, Date of 1924) Papura Bengaluru - 560 024.

Examination Centre

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Awarded to WAYCHAN	IDRA . M		
This is to certify that the project en	ntitled ONLINE	VOTING	SYSTEM
			Submitted
In partial fulfillment of the requir	ement for the degree of	of Bachelor of Co	omputer Application
of Bangalore University.			
GUIDE Signatures of Examiners:	H.O.D Head of the Department Sindhi College No. 33/2B, Hebb	al. Kampanura	mosizo nempapura, Hebbai
DEPARTMENT OF COMPUTER SINDHICOLLE #39/28, Kompspure, Hubbala Bar VALUED 2	SCIENCE III - 560 GE	024.	

EXAMINER'S:

Bachelor Of Computer Application [BCA]

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AwardedtoLOHITH · R ·	
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ANNOTATION USING CONTENT & QUERVING	ALDE Submitted
In partial fulfillment of the requirement for the degree of Bachelor of Compu	ter Application
of BangaloreUniversity.	
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GUIDE

H.O.D

Head of the Department of Computer Science Sindhi College

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Signatures of Examiners:

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of Bangalore University.		
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DEPARTMENT OF COMPUTER SCIE SINDHI GOLLEGE # 33/28, Kempoping Public Sangalor 2. EXAMINER'S:	100 024.	

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In partial fulfilment of the requof Bangalore University.	uirement for the degree of I	Bachelor of Computer Application
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Awarded to Shuin. Produce

This is to certify that the project entitled

Employee Leave Managnant System Submitted in partial fulfilment of the requirement for the degree of Bachelor of Computer Application of Bangalore University.

DEFSignatures of Examiners: SIE Head of the Department of Computer Science PRINCIPAL

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SINDHI COLLEGE No. 33/28, Hebbal, Kempanara, Hebbal, Bangalore B

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Awarded to:	•	
	SHREYA . S	
This is to certify th	nat the project entitled: ELECTRO	NIC
/	VOTING SYSTEM	Submitted
In partial fulfillmen	t of the requirement for the degree of B	achelor of Computer
Application of Bang	alore University.)
Joseph John Market	Dodh	Dery "
GUIDE	H.O.D	PRINCIPAL
Signatures of Evan	Head of the Department of Computer Science Sindhi College No. 33/2B, Hebbal, Kempapura niner Bangaluru - 560 024.	SINDHI COLLEGE #33/2B Kempapura, Hebbal, Bengaluru - 560 024.
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This is to certify that the project entitled

"FEST MANAGEMENT SYSTEM"

Submitted in the partial fulfillment of requirement for the award of degree

Bachelor Of Computer Application [BCA]

Is a result of bonafide work carried out by:

1. Rohan S

17NMSB7050

During the Academic Year: 2020-2021

H.O.D Head of the Department of Computer Spience MENT Sindhi College

No. 33/2B, Hebbal, K

Bengaluru - 550 024

Date:

18/10/2020

Centre: SINDHI COLLEGE

Bachelor Of Computer Application [BCA]

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Awarded to	GAYIT	THRI GS	
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In partial fulfillment of the re	quirement fo	or the degree of Bachelor	of Computer Application
of Bangalore University.			
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Department of Computer Science [BCA]



	Awarded to Sahana M.	
	This is to certify that the project entitled <u>Detecting Mallacious Apps</u> "	
	in partial fulfilment of the requirement for the degree of Bachelor of Computer	
	Applications of Bangalore University .	
	Guide Rodh H.O.D Head of the Department of Computer Science PRINCIPAL	
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In par	tial fulfillment of the require	ment for the degree	e of Bachelor of	Computer Ap	pheation
of Ba	ngalore University.				
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This is to certify that the	e project entitled	e-Mark	et
manage	ment Sys	stem	Submitted
U	•		Computer Application
of Bangalore Universit	ty.		
GUIDE	H.O. Head of the Depart Sindhi Collage	ment of Computer Science	PRINCIPAL SINDHI COLLEGE #33/28 Kempapura, Hebbal Bengaluru - 560 024,
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entitled HOTEL	RESERVATION	SYSTEM	
Submitted In partial fulfillment of the requirement for the degree of Bachelor of			
Computer Application	of Bangalore Universit	V.	

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Head of the Department of Computer Science Sindhi College No. 33/28, Hebbal, Kempapura

Bengaluru - 560 024.

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DEPARTMENT OF COMPUTER SCIENCE
Signatures of Examiners: LEGE #33/23, Kempapure, Habbala, Bangalare-24 VALUED
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2.

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Awarded to at	think S		
This is to certify that the pr	roject entitled 5 mpt	suec lea	ve
- Naragemen	t Syplem		Submitted
In partial fulfillment of the	requirement for the degree	ee of Bachelor of	Computer Application
of Bangalore University.			
GUIDE	H.O.D Head of the Department Sindhi College No. 32/200	of Computer Science	PRINCIPAL PRINCIPAL SINDHI COLLEGE S/28 Kempapura, Hebbal, Bengaluru - 560 024
Signatures of Examiners	No. 33/2B, Hebba Bengaluru 560 (I, Kompapura	Bengaluru - 560 024.
DEPARTMENT OF SOIL SINDHICO #33/28, Rev EXCIT	DLLEGE	24,	360 024.

Bachelor Of Computer Application [BCA]

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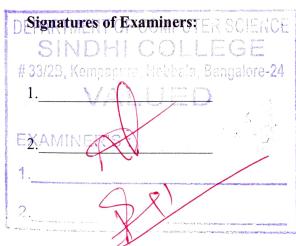
Awarded to PK Tharun Raj	
This is to certify that the project entitled Stock Managemer	nt
and Inventory System	Submitted
In partial fulfillment of the requirement for the degree of Bachelor of Computer Al	pplication
of Bangalore University.	

GUIDE

H.O.D Mead of the Department of Computer Science Sindhi College No. 33/28, Hebbet, Kempapura

Bengaluru - 560 024,

SINDHI COLLEGE #33/2B Kempapura, Hebbal. Bengaluru - 560 024.



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ya Shul. 12	
et entitled Womer	Safety
Application	Submitted
uirement for the degree of Bachelon	r of Computer Application
Head of the Department of Computer Sindhi College No. 33/28, Hobbal, Kempar Bengaluru - 560 024.	PRINCIPAL Cience PRINCIPAL SINDHI COLLEGE DU#83/2B Kempapura, Hebbai Bengaluru - 560 024.
	Head of the Department of Computer Single College

Bachelor Of Computer Application [BCA]

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Awarded to AKASH ANAND KHANDARI	
This is to certify that the project entitled _APPOINTINGNT_	SCHEDULING
MODEL OF DOCTOR SPECIFIC	Submitted
In partial fulfilment of the requirement for the degree of Bachelor of C	Computer Application
Of Bangalore University.	

GUIDE

Head of the Department of Computer Science Sindhi College No. 33/28, Hobbal, Kempapura Bengaluru - 560 024.

PRINCIPAL SINDHI COLLEGE #33/2B Kempapura, Hebbal, Bengaluru - 560 024.

Signatures of Examiners:

DEPARTMENT OF COMPUTER SCIENCE
SINDHICOLLEGE
#33/28, Kemputer Helberts, Bengalore-24

VALUED

EXAMINER'S

1.
2.

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Awarded to	RUSHI	KESH	NAIDU	T
This is to certify that	at the project entitled			
	COLLEGE	CHAT	BOT	Submitted
in partial fulfillmen	t of the requirement t	or the degree o	f Bachelor of Co	mputer Application
of Bangalore Univ	ersity.			,
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GUIDE	Head of the	Peraciment of Con	nputer Science	PRINCIPAL
	Autoitil A	HIEUP		PRINCIPAL INDHI COLLEGE
Signatures of Exa	Bengalu	ru - 560 024.	#33/2 ***********************************	INDHI COLLEGE B Kempapura, Hebbal Jengaluru - 560 024.
DEPARTMENT OF CON SINDHI CO # 33/2B, Kempapura, He VALU 2. EXAMINER'S	MPUTER SCIENCE DLLEGE bbala, Bangalore-24			

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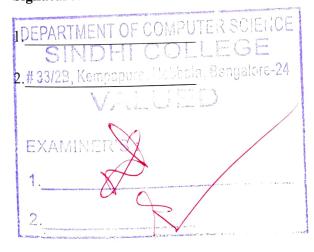
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CERTIFICATE

Awarded to CHANDE	24.5	
This is to certify that the projec	t entitled <u>Crime</u> Ma	inagement
Sustem		Submitted
In partial fulfillment of the requ	uirement for the degree of Bachelor o	f Computer Application
	of Bangalore University.	
GUIDE	H.O.D Head of the Department of Computer Science Sindhi College No. 33/28, Hebbal, Kempapura Bengaluru - 560 024	PRINCIPAL PRINCIPAL SINDHI COLLEGE #33/28 Kempapura, Hebba Bengaluru - 560 024
GUIDE Signatures of Evaminars:	oman Polisas	PRINCIPAL

Signatures of Examiners:



Bachelor Of Computer Application [BCA]

(Affiliated To Bangalore University)

33/2B, Kempapura, Hebbal, Bangalore – 560024



CERTIFICATE

Awarded to SYED

This is to certify that the project	t entitled	COMPUTING
SECUR	ITY	Submitted
In partial fulfilment of the requi	rement for the degree of Bachelo	r of Computer Application
	of Bangalore University.	
GUIDE SIGNATURES OF Examiners: E	H.O.D Head of the Department of Computer Sci Sindhi College SO No. 33/22, Hebbal, Kempap Bengaluru - 560 024. galare-24	PRINCIPAL PRINCIPAL S!NDHI COLLEGE #33/2B Kempapura, Hebba Bengaluru - 560 024.
EXAMINER'S &		

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CERTIFICATE

Awarded to Aditya S. Avalakki	
This is to certify that the project entitled May Mail Dispatch Softward in partial fulfilment of the requirement for the degree of Computer Application of Bangalore University.	Submitted Bachelor of

H.O.D IENCE of the Department of Computer Science **GUIDE** Sildhi College Signatures of Examiners:

PRINCIPA #33/2B Kempapura, Hebb Bengaluru - 560 024.

Bangalore-24%. 33/2B, Hebbal, Kempapura Bangaluru - 560 024.

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Awarded to	Shashank.V	
This is to certify that t	he project entitled Hotel a	nd Travel
_ Managmer	yt System	Submitted
	of the requirement for the degree of Bac	chelor of Computer Application
of Bangalore Univers	sity.	
GUIDE Signatures of Exam DEPARTMENT SIND 1. #33/23, Keing 2. EXAMINET	H.O.D Head of the Department of Computer Sindhi College No. 33/2B, Hebbal, Kempore Computer Scott Bengaluru - 560 024.	#33/2B KONTOLLEGE

#33/2B Kempapura, Hebbal, Bangalore-560024

Phone:080-2363 7543/44,41778288, Tele fax:23637544

Email: mail/asindhicollege.com, web: www.sindhicollege.com

CERTIFICATE

This is to certify that the project entitled

"AUTOMATIC SWITCHING ON AND OFF OF **LIGHTS USING ARDUINO"**

Submitted in partial fulfilment of the requirement for the award of the degree

Bachelor of Science [BSc]

Is a result of the confide work carried out by:

PAATHAPATHI KAVYA: 17NMS85009

SHAMATHA S SHETTY: 17NMS85014

RAKSHITHA BK: 17NMS85011

During the academic year: 2019-20

Head of the Department of Computer Science

#33/2B Kempapura, Hebbal. Bengaluru - 560 024.

Register Number: 17NM\$85016ollege

No. 33/28, Hebbal, Kempapura

17NM\$85992ru - 560 024.

17NMS85011

Date

: 13-0ct-2020

: SINDHI COLLEGE

Centre

Bachelor of Science[BSc]

(Permanently Affiliated to Bangalore University) #33/2B,Kempapura,Hebbal,Bangalore-560024



CERTIFICATE

Awarded to 17NMS85005, 17NMS	35007, 1/DMS35016
This is to certify that the project entit	tled LED MATRIX
DISPLAY BOARD	in practical fulfilment
Of the requirement for the degree of	Bachelor Of Science of Bangalore
University.	
f Guide	H.O.D Principal

Signature of Examiners

1. <u>C. M. Shobha</u> 13)10/20 2. <u>P. A. H. Bhobha</u> 13)10/20

#33/2B Kempapura, Hebbal, Bangalore-560024

Phone: 080-2363 7543/44, 41778288, Tele fax: 23637544

Email:mail@sindhicollege.com, web: www.sindhicollege.com

CERTIFICATE

This is to certify that the project entitled

"Voice Operated robotic using Arduino and Bluetooth module"

Submitted in partial fulfilment of the requirement for the award of the degree

Bachelor of Science [BSc]

Is a result of the confide work carried out by:

K KARTHIK: 17NMS85006

VISHWAS K G:17NMS85019

MANJUNATH S NAIKAR:17NMS85008

During the academic year: 2019-20

Register Number:

17NMS85019

Date

13/10/2020

Centre

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CERTIFICATE

This is to certify that the project entitled

"DIGITAL CODE LOCK USING ARDUINO"

Submitted in partial fulfilment of the requirement for the award of the degree

Bachelor of Science [BSc]

Is a result of the confide work carried out by:

K KARTHIK: 17NMS85006

VISHWAS K G:17NMS85019

MANJUNATH S NAIKAR: 17NMS85008

During the academic year: 2019-20

ent of Computer Scienterin cipal Register Number: 17N

33/28, Hebbal, Kempapura

17NMS85008-560 024.

17NMS85019

#33/2B Kempapura, Hebba Bengaluru - 560 024.

Date

:13-10-2020

Centre

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Phone:080-2363 7543/44,4177 8288,Tele fax:23637544

Email:mail@sindhicollege.com, web: www.sindhicollege.com

CERTIFICATE

This is to certify that the project entitled

"DESIGN AND IMPLEMENTATION OF SMART CAR PARKING SYSTEM USING ARDUINO"

Submitted in partial fulfilment of the requirement for the award of the degree

Bachelor of Science[BSc]

Is a result of the confide work carried out by:

Sagib Ahmed: 17NMS85013 C.Siva Narayana Reddy: 17NMS85004 Rohith.A:17NMS85012

During the academic year: 2019-2020

PAINCIPE

Bengaluru - 560 024

Head of the Department of Computer Science

Sindhi College

Register Number: 17NMS85013 No. 33/2B, Hebbal, Kempapura

Bengaluru - 560 024.

:17NMS85004

:17NMS85012

Date

: 13-10-2020

Centre

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Email:mail@sindhicollege.com, web: www.sindhicollege.com

CERTIFICATE

This is to certify that the project entitled

"BLUETOOTH CONTROLLED ROBOT"

Submitted in partial fulfilment of the requirement for the award of the degree

Bachelor of Science [BSc]

Is a result of the confide work carried out by:

CHANDANA.M: 17NMS85002 CHANDANA.V: 17NMS85003

During the academic year: 2019-20

Guide

H.O.D

Principal

Mead of the Department of Computer Science

Rodh

SINDHI COLLEGE

Sindhi College

#33/2B Kempapura, Hebbal,

Register Number: 17NMS8500214.7NMS85003al, Kempapura

Bengaluru - 560 024.

Bengaluru - 560 024.

Date 13 w/2

Centre

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: SINDHI COLLEGE

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CERTIFICATE

Awarded to Pallari B.M, Palith M, M. Ali

This is to certify that the project entitled To detect

- Facebook - Applicat	tony	Submitted
	ement for the degree of Bachelor of	f Computer Application
of Bangalore University.		
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GIADE	" H.O.D	PRĬNCIPAL
Gelbe	H.O.D Head of the Department of Computer Scie	nce
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	No. 33/2B, Hebbal, Kempany	SINDHI COLLEGE
	Bengaluru - 560 024.	Bengaluru-560 024.
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Bachelor Of Computer Application [BCA]

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Awarded to _	Akhilash. Kol	Н	
This is to cert	ify that the project entitled	ELECTRONIC	PRODUCT
	STORE		Submitted
In partial fulfi	llment of the requirement fo	r the degree of Bachelor	of Computer Application
of Bangalore I	University.		
GUIDE	Head of the Sindhi C	Doch O.D Department of Computer Science Oliege	PRINCIPAL PRINCIPAL SINDHI COLLEGE 8/28 Kempapura, Hebbal, Bengaluru - 560 024
	Examiners:TER SO Gragal II COLLEGE vera, Hebbela, Bangalore-24	onege #3: B, Hebbal, Kempapura ru - 560 024.	Bengaluru - 560 024.
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Bachelor Of Computer Application [BCA]

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CERTIFICATE

PACHILA ANUPAMA

Awarded to

This is to certify that the project entitled A VIGOROUS NOTORIETY		
THE EXECUTION COMPONENT	IN THE UN	NTED CLOUD. Submitted
in partial fulfillment of the requirement Application	for the degree of B	Bachelor of Computer
Sindhi College	ebbal, Kempapura	PRINCIPAL PRINCIPAL SINDHI COLLEGE #33/2B Kempapura, Hebbal, Bengaluru - 560 024.
DEPARTMENT OF COMPUTER SCIENCE 1. SINDHICOLLEGE # 33/28, Kempapure, Nathala Bangalore-24 2. VALUED EXAMINER'S: 1.		2011galulu - 300 024.

Bachelor Of Computer Application [BCA]

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Recognized to UGC under section 2(f) & 12(B)



Awarded to Manisha Kumasi,	Sai Sandly DP, Ralchi (Cunaei
This is to certify that the project entitled	
MULTIMEDIA BASED CONTEN	T PROTECTION SYSTEM Submitted
In partial fulfillment of the requirement for	or the degree of Bachelor of Computer Application
of Bangalore University.	
No. 3	ne Department of Computer Science College 3/2B, Hebbal, Kempapura SINDHI COLLEGE #33/2B Kempapura, Hebbal, Bengaluru-560 024.

Bachelor Of Computer Application [BCA]

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Recognized to UGC under section 2(f) & 12(B)



Awarded to Jrun Kumar. D.	M, Sandhya R.M, Sahana M
This is to certify that the project entitled _	MULTI BANKING
	Submitted
In partial fulfillment of the requirement for	r the degree of Bachelor of Computer Application
of Bangalore University.	
	O.D PRINCIPAL PRINCIPAL PRINCIPAL
Signatures of Examiners: Signatures of Examiners: LEGE 1# 33/28, Kempapura, Habbala, Bangalore-24	SINDHI COLLEGE SINDHI COLLEGE Bengaluru-560 024. 2
EXAMINATIS: 10	

Bachelor Of Computer Application [BCA]

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33/2B, Kempapura, Hebbal, Bangalore – 560024



Awarded to _	SYED SHAHBAZ	, SAGIAR RAO G, M.	SOLOMON JA	COB
This is to cer	tify that the project en	ntitled SECURE DAT	A SHARING	IN
CLOUD	COMPUTING			Submitted
In partial fulfi	ilment of the requiren	nent for the degree of Back	helor of Compute	er Application
of Bangalore	University.			
GUIDE Signatures of I	Examiners: Sine	H.O.D I of the Department of Computer Scientific College 3 28, Hebbal, Kempapu	PRIN SINDHI (NCIPAL COLLEGE
DEPARTMEN SIND # 33/28, Kemp	HICOLLEA Papura, Hebbala Banga ALUED		Bengalur Ta	u-560 024.
1	R'S:			

Bachelor Of Computer Application [BCA]

(Affiliated To Bangalore University)

33/2B, Kempapura, Hebbal, Bangalore – 560024



This is to certify that the project entitled "AUTOMATION OF INTERVIEW Submitted In partial fulfilment of the requirement for the degree of Bachelor of Computer Application of Bangalore University. PRINCIPAL Head of the Department of Computer Science Sindhi College No. 33/2B, Hebbal, Kempapura Bengaluru - 560 024. DEPARTMENT OF COMPUTER SCIENCE SINDHI COLLEGE SINDHI COLLEGE -#33/2B, Kempapura, Hebbal, Bangalore-24	AWARDED O ANHAY MEHLA, RANVEER PATEL, SHRAVANL A.N.
In partial fulfilment of the requirement for the degree of Bachelor of Computer Application of Bangalore University. PRINCIPAL Head of the Department of Computer Science PRINCIPAL SINDHI COLLEGE #33/2B Kempapura Bengaluru - 560 024.	This is to certify that the project entitled AUTOMATION OF INTERVIEW
GUIDE H.O.D PRINCIPAL Head of the Department of Computer Science Sindhi College No. 33/28, Hebbal, Kempapura Bengaluru - 560 024. DEPARTMENT OF COMPUTER SCIENCE SINDHI COLLEGE SINDHI COLLEGE -# 33/28, Kempapura, Hebbala, Bangalore-24	SCHEDULING " Submitted
Head of the Department of Computer Science Sindhi College No. 33/2B, Hebbal, Kempapura Bengaluru - 560 024. DEPARTMENT OF COMPUTER SCIENCE SINDHI COLLEGE 1. #33/2B, Kempapura, Hobbala, Bangalore-24	•
	Head of the Department of Computer Science Sindhi College No. 33/2B, Hebbal, Kempapura Bengaluru - 560 024. DEPARTMENT OF COMPUTER SCIENCE SINDHI COLLEGE SINDHI COLLEGE

DEPARTMENT OF COMPUTER SCIENCE SINDHI COLLEGE

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Permanently Affiliated to Bangalore University NAAC Accredited
Recognized to UGC under section 2(f) & 12(B)

CERTIFICATE

This is to certify that the project entitled

SECURE DYNAMIC MULTI

Submitted in the partial fulfillment of requirement for the award of degree

Bachelor Of Computer Application [BCA]

Is a result of bonafide work carried out by:

1. LOHITH.R : 17NMSB7027

2. KARTHIK.S : 17NMSB7022

3. NAVEEN.J : 17NMSB7035

During the Academic Year: 2019-2020



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This is to certify that the project entitled

"CRIME REPORT MANAGEMENT"

Submitted in the partial fulfillment of requirement for the award of degree

Bachelor Of Computer Application [BCA]

Is a result of bonafide work carried out by:

1. KAVYA SHREE K 17NMSB7023

2. PACHILA ANUPAMA 17NMSB7039

3. PULICHERLA YASMIN: 17NMSB7043

During the Academic Year: 2019-2020

Date

Centre

Head of the Department of Computer Science Sindhi College

PRINCIPAL

SINDHI COLLEGE

Bengaluru-560 024.

No. 33/22, Nebbal, Kempapura #33/2B Kempapura, Hebbal, Bengaluru - 560 024,

SINDHI CSOLLEGE

18/11/2019

#33/2B, Hebbal, Kempapura, Bangalore,

Permanently Affiliated to Bangalore University

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An ISO 9001:2015 Certified institution

Department of Computer Science [BCA]



Awarded to	AND DESCRIPTION OF STREET, STR	IVAM BHARDWAT, F	ABDUR RAHIAMAN SHERIEFF WENT "
This is to cer	tify that the project entitled		
the requirem	ent for the degree of Bacl		in partial fulfilment of plications of Bangalore
University.	C		
Guide	No. 33/2	Madh H.O.D Department of Computer Science Slege Hebbal, Kempapura	PRINCIPAL SINDHI COLLEGE #33/28 Kempapura, Hebbal,
Sighature of SII #33/28,	NDHI COLLEGE Kempapura, Hebbala, Bangalore VALUED	(UL	Bengaluru-560 024.

Bachelor Of Computer Application [BCA]



CERTIFICATE

Awarded to Soumup P.	Shree Lakshmi R, Ch	nandana. K.
	ject entitled <u>HealthDep</u> : An	
Secure De-Duplication	n Scheme for cloud-	Assisted Submitted
	/	chelor of Computer Application
of Bangalore University.		
GUIDE	Head of the Department of Computer Sci Sindhi College No. 33/2B, Hebbal, Kempapu Bengaluru, 550 pag	PRINCIPAL PRINCIPAL SINDHI COLLEGE #33/28 Kompapura, Hebb
Signatures of Examiners:	Bengaluru - 560 024.	Bengaluru-560 024.

DEPARTMENT OF COMPUTER SCIENCE
SINDHI COLLEGE
1# 33/2B, Kempapura, Hebbala, Bangalore-24

EXAMINER'S



#33/2B, Kempapura, Hebbal, Bangalore - 560 024
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Permanently Affiliated to Bangalore University NAAC Accredited
Recognized to UGC under section 2(f) & 12(B)

CERTIFICATE

This is to certify that the project entitled

"BUG REPORT MAPPING SYSTEM"

Submitted in the partial fulfillment of requirement for the award of degree

Bachelor Of Computer Application [BCA]

Is a result of bonafide work carried out by:

1. PKTHARUN RAJ: 17NMSB7038

2. CHANDRUS : 17NMSB7016

3. VAMSHI S : 17NMSB7077

During the Academic Year: 2019-2020

Dadh

GUIDE

H.O.D

PRINCIPAL

Head of the Department of Computer Science 33/28 Kempapura, Hebbal, No. 33/28, Hebbal Karanaanaa Bengaluru-560 024:

No. 33/2B, Řebbal, Kempapura Bengaluru - 560 024.

Date : 18/11/2019

Centre: SINDHI COLLEGE

Bachelor Of Computer Application [BCA]

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Permanently Affiliated to Bangalore University NAAC Accredited
Recognized to UGC under section 2(f) & 12(B)



CERTIFICATE

Awarded to SHREYA.S, SUMIYA BEE S

This is to certify that the project	entitled <u>ENABLING</u>	FINE-GRAINED
MULTI-KEYWORD	,	Submitted
In partial fulfillment of the requi	irement for the degree of Bac	chelor of Computer Application
of Bangalore University.		
	Rodh	Jev.
GUIDE	H.O.D	PRINCIPAL
	Head of the Department of Computer Sindhi College No. 33/28, Hebbal, Kempo Bengalura - 560 024.	#33/28 Kempapura, Hebbar,
Signatures of Examiners: DEPARTMENT OF COMPUTE SINDHICOLL # 33/28, Kempapura, Pebbala, B 1.	EGE	
2EXAMINER'S:		



Sindhi college 33/2B,kempapure, hebbai, banglore-560024

Phone: 080 - 23637543/44, 41178288, Fax: 080 23637544

Email: mail@sindhicollege.com, wedsite: www.sindhicollege.com

CERTIFICATE

This is to certify that the project entitled

" ATOMATIC MINING FACTORSS"

Submitted in the partial fulfillment of requirement for the award of degree

Bachelor Of Computer Application [BCA]

Is a result of bonafied work carried out by:

1. SHWETHA.B : 17NMSB7063

2. ANJALI MARY : 17NMSB7008

During the Academic Year: 2019-2020

Signature of GUIDE

signature of H.O.D

signature of principa

Date of Practical Examination un

PRINCIPAL SINDHI COLLEGE

Examination center

SINDHI COLLEGE

/2B Kempapura, Hebbal, Bengaluru-560 024.

Bachelor Of Computer Application [BCA]

33/2B, Kempapura, Hebbal, Bangalore - 560 024
Phone: 080 - 2363 7543/44, 4117 8288, Fax:080 2363 7544
Email: mail@sindhicollege.com, Website: www.sindhicollege.com
Permanently Affiliated to Bangalore University NAAC Accredited
Recognized to UGC under section 2(f) & 12(B)



Awarded to Vinay Ch	andra, Vignes	shwar Singh, Shara	t
This is to certify that the projec			
Managen	1	Submitted	
In partial fulfillment of the requ	uirement for the degree of	f Bachelor of Computer Application	
of Bangalore University.			
Quide H	H.O.D ead of the Department of Compute	PRINCIPAL	
Signatures of Evaminars	indhi College o. 33/28, Hebbal, Kemp engaluru - 560 024		
DEPARTMENT OF COMPUING SINDHICOL 1 # 33/28, Kempapura, Husbera VALUE 2EXAMINER'S:	TER SCIENCE LEGE Bangalore-24		
1. (8/11/19 2 · Dadh	and the second second		

#33/2B, Hebbal, Kempapura, Bangalore.

Permanently Affiliated to Bangalore University

Recognised by UGC under 2(f) & 12(B), NAAC Accredited

An ISO 9001:2015 Certified Institution.

Department of Computer Science [BCA]



CERTIFICATE

Awarded to Vaibha This is to certify that the proj		caraj C
		Submitted in activity
	Management	Submitted in partial
fulfilment of the requirement	t for the degree of Bachelor o	f Computer Application of
Bangalore University.		
GUIDE Signatures of Examiners	H.O.D Mad of the Department of Computer Sindhi College No. 33/2B, Hebbal, Kemp. Bengaluru - 560 024.	PRINCIPALS Science PRINCIPAL SINDHI COLLEGE SINDHI COLLEGE Apurä 33/28 Kempapura, Hebbal, Bengaluru-560 024.
SINDALL COL #33/25, HEIGHT HEBBAIA 2.	TER SCIENCE LEGE Bangalore-24	
EXAMINER'S:		

3 | Page



Sindhi College
(Sponsors : Sindhi Seva Samiti)
33/2B, Hebbal, Kempapura, Bengaluru - 560024
Permanently affiliated to Bengaluru Central University
Accredited by NAAC Recognised by UGC under 2(f) & 12(B)

An ISO 9001:2015 Certified Institution

M.com & M. Com (F &A)

Academic year 2019 — 20

Name of the programme

: M. Com & M.Com (F &A)

No. of students undertaking project work/field work / internships

= Number of students undertaking project work / field work / internship X 100 Total number of students

=46/46*100

=100 %

Project work & Internship

Programme Name					
M.Com	PG	ANUSHA A S			
M.Com	PG	ARFIYA SULTANA M S			
M.Com	PG	CHANDANA S			
M.Com	PG	GIRISH Y S			
M.Com	PG	-GURUABHISHEK N			
M.Com	PG	HARISHA M			
M.Com	PG	INDU V			
M.Com	PG	JANCY R			
M.Com	PG	KIRAN MEGHANA V			
M.Com	PG	MAHALAKSHMI M			
M.Com	PG	MONIKA S			
M.Com	PG	MOUNA K L			

M.Com	PG	MUBASHEERA KHANAM E	
M.Com	PG	MUJAHID BAIG	
M.Com	PG	NARAYANA ERAPPA KALAKERI	
M.Com	PG	NIRANJAN M	
M.Com	PG	NITHUN RAO V N	T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
M.Com	PG	POOJA M	
M.Com	PG	PREETHI D S	
M.Com	PG	PREM KUMAR M	
M.Com	PG	RAJASHEKHARA S P	•
M.Com	PG	RAKSHITHA D C	· · · · · · · · · · · · · · · · · · ·
M.Com	PG	RANJITHA R	
M.Com	PG	RASHMI G V	
M.Com	PG	SHWETHA N	
M.Com	PG	SPOORTHI B M	
M.Com	PG	SURESH R	
M.Com	PG	SUSHMA N	
M.Com	PG		
•		SUSHMITHA B	
M.Com	PG	SWATHI V MURTHY	
M.Com	PG	VINAY SHANKAR M R	
M.Com (F & A)	MD	ANKITHA S D	
M.Com (F & A)	, MD	APOORVA M V	
M.Com (F & A)	MD	LALITH J	
M.Com (F & A)	MD	MANOJ KUMAR	
M.Com (F & A)	· MD	MONISH M	
M.Com (F & A)	MD	RAVI PRAKASH V G ·	
M.Com (F & A)	MD	RITHU VEERESH	
M.Com (F & A)	MD	SAGAR B P	
M.Com (F & A)	MD	SRIKANTH V	

M.Com (F & A)	MD	SUHAS H	
M.Com (F & A)	MD	VASANTH KUMAR S	
M.Com (F & A)	MD	VINAY B	
M.Com (F & A)	MD	VISHNU K	
M.Com (F & A)	MD	WALAA HISHAM MUSTAFA AHMED	
M.Com (F & A)	MD	YOGITHA M	

Head of the Department of PG Studies Sindhi College 33/2B, Kempapura, Hebbal Bangalore - 560 024.

Mhum

PRINCIPAL SINDHI COLLEGE #33/2B Kempapura, Hebbal, Bengaluru - 560 024.



VAMSO BIOTEC PVT LTD

(1st main, VSR layout, B.Narayanapura KR puram Bangalore-560058)

CERTIFICATE .

We here by certify that Ms.Arfiya Sulthana M.S with Register no.CM181202 Student of Mcom from Sindhi College of commerce,#33/2B,Hebbal ,kempapura Bangalore-560024, has undertaken her project work regarding "A Study on Value Chain Analysis in Vamso Biotec Pvt Ltd., Bangalore".

During this period, she completed her project work successfully using the required available resources. We found her hard working and sincere.

We wish her success in her entire further endeavor

For Vamso Biotec Pvt Ltd

MANUEL STOFF PVE AND STOFF OF THE STOFF OF T

Dhaksha Credit co-operative society LTD. NO:1419, 3RD CROSS, NEAR POST OFFICE, NEHRU NAGAR, YELAHANKA, BANGALORE-560064



To whom so it may cocern

CERTIFICATE

This is to certify **Mr. Girish Y S Reg. No. CM181204** a student of Sindhi college, studying final year post graduate M.com in Department of Commerce and Management, undergone his Internship in our organization from 22nd June 2020 to 13th July 2020

Project title is "Performance Evaluation on Credit Co-operatives using Camels Model A Study with Special Reference to Dhaksha Credit Co-operative Society Yelahanka, Bengaluru", Yelahanka, Bengaluru"

During this stay at Dhaksha credit co-operative society, his character, conduct and behavior was good with us.

We wish a bright future in his future endeavor.

ದಕ್ಷ ಕ್ರೆಡಿಟ್ ಕೋ ಒಪರಟಿವ್ ಸೊಸೈಟಿ (ನಿ) ನಂ. 1419, ಮೊದಲನೇ ಮಹಡಿ, 3ನೇ ಅಡ್ಡರಸ್ತೆ ನೆಹರು ನಗರ, ಪೋಸ್ಟ್ ಆಫೀಸ್ ರಸ್ತೆ, ಓಲ್ಡ್ ಟೌನ್ ಬೆಂಗಳೂರು – 560 064.

Branch Manager

Date: 02/09/2020

Place: Yelahanka, Bengaluru



CIN Number: U67200KA2019PTC122753

PAN Number : ABBCS8048K TAN Number : BLRS70906D

GST Number: 29ABBCS8048K1ZS

DATE: 20/08/2020

PLACE: BANGALORE

TO WHOMSOEVER IT MAY CONCERN

SUBJECT: PROJECT COMPLETION CERTIFICATION.

This is to certify that, Mr. Guruabhishek N (Register no: CM181205), pursuing his M.Com, 4th semester from Sindhi College, Bengaluru, has successfully completed his project under the title, "ANANALYSIS ON PERSONAL LOAN TO SALARIED EMPLOYEES IN SAVENSA BUSINESS SOLUTION, BENGALURU" from the period of June 2020 to July 2020.

During the tenure of his project work, we found him sincere and hard working. We wish him all the best for all his future endeavors.



Registered Off: No. 527 / 486, 3rd Floor, Pooja Complex, Dr. Rajkumar Road, Above Muthoot Finance, Yaraganahalli, Mysore - 570 019.

Landline Number: 0821-4288666 Email ID: savensa.mysuru@gmail.com

Branch Off: No.70, 2nd Floor, Karthick Complex, 17th Cross, Margosa Road, Malleswaram, Bangalore - 560 003.

Landline Number: 080-43748683 Email ID: savensa bengalun@gmail.com

ಸ್ಥಾಪನೆ : 13–6–1936. ರಿ. ನಂ. 1524



ದೂರವಾಣೆ: 080-2768

ಪ್ರಾಥಮಿಕ ಸಹಕಾರಿ ಕೃಷಿ ಮತ್ತು ಗ್ರಾಮೀಣ ಅಭಿವೃದ್ಧಿ ಬ್ಯಾಂಕ್ ನಿ. ದೇವನಹಳ್ಳಿ-562 110, ಬೆಂಗಳೂರು ಗ್ರಾಮಾಂತರ ಜಿಲ್ಲೆ

The Primary Co-operative Agriculture & Rural Development Bank Ltd.
DEVANAHALLI - 562 110, BANGALORE RURAL DISTRICT.

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			-		2		****	****	 	****

ದಿನಾಂಕ :

CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Harisha M, Reg.No.CM181206, student of M.com studying in SINDHI COLLEGE, Bengaluru, has successfully completed a project work on "A study on role on banking services for the agriculture and rural development: A special reference with co-operative agricultural and rural development bank ltd., Devanahalli" from 01/06/2020 to 31/07/2020.

He is successfully completed the project work in this bank. His knowledge on the subject is good. We appreciate the interest shown by him completing the said project report and wish him all the best.

Thanking you,

Yours Faithfully

ವ್ಯಾಸ್ಟಕ್ಕೆ ಮತ್ತು ಗ್ರಾ.ಅ. ಇ ತಾ.ಪ್ರಾಸ್ಟಕ್ಕೆ ಮತ್ತು ಗ್ರಾ.ಅ. ಇ



Ref. IND/CER/2020

Date: 29th Aug'2020

CERTIFICATE

This is to certify that Ms. Indu V bearing (CM181108) student of 2nd year, 4th Sem M.Com at Sindhi College, has successfully completed project on "A Study an Impact of FDI and FII on productivity" in our organisation, under the guidance of Mr. Vasu H, Manager HR & Admin, INDIC EMS Electronics Pvt. LTD.,

During the period of Project she was keen, hardworking and displayed good conduct and character.

The management wishes all success for her future endeavour.

For INDIC EMS ELECTRONICS PVT. LTD.,



Authorized Signature





KARNATAKA STATE ROAD TRANSPORT CORPORATION CHIKKABALLAPURA DIVISION

To Whomsoever it may concern

Certificate

* * *

This is to certify that Miss. JANCY R. (Register No. CM181208) M.Com. Student of SINDHI COLLEGE BANGALORE, has undertaken her project work regarding "AN IMPACT OF TRANSPORTATION COST AND OPERATIONAL EFFICIENCY WITH REFERENCE TO KSRTC CHIKKABALLAPUR" in Chikkaballapur Division.

During this period, she completed her project work successfully using the required available resources. We found her hard working and sincere.

Date: 27/08/2020

Divisional Controller.

KSRTC, Chickballapura Division.

KSRTC, Chickballapura Division.

Phone: 27931286

ಹೊಸಕೋಟೆ ಟೌನ್ ರೇಷ್ಠೆ ಬೆಳೆಗಾರರ ಹಾಗೂ ರೈತರ ಸೇವಾ ಸಹಕಾರ ಸಂಘ ನಿಯಮಿತ.,

ಹೊಸಕೋಟೆ - 562 114, ಬೆಂಗಳೂರು ಗ್ರಾಮಾಂತರ ಜಿಲ್ಲೆ.

Hoskote Town Sericulturist's Cum Farmer's Service Co-operative Society Ltd.,

Hoskote – 562 114, Bangalore Rural Dist. Email: scfs.cobankhkt@gmail.com (Finance by: B.B.R. & R.D.C.C. Bank, Bangalore)

Ref. No.

Date: 03-08-2020

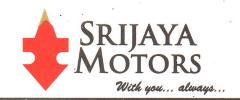
TO WHOM SO EVER IT MAY CONCERN

This is certify that Ms. Monika S having Regd. No. CM181211 from sindhi collage has successfully completed "A STUDY ON RETAIL BANKING IN SERICULTURIST,S CUM FARMER'S SERVICE CO-OPERATIVE SOCIETY LTD.," Hosakote from 03/03/2020 to 03/08/2020

She is successfully completed the project work in this society ,Her knowledge on the subject is good . We appreciate the keen interest shown by her completing the said project report and wish her all the best.

Chief Executive
Sericulturist's Cum Farmer's
Service Co-operative Society Niyamitha
T.G. Extension, Hoskote Town,
Hoskote - 562 114, Bangalore (R) Dist.
Authorized Signatories





CERTIFICATE

This is to certify **Mr. Mujahid Baig Reg. No. CM181214** a student of Sindhi college, studying final year post graduate M.com in Department of Commerce and Management; undergone his Internship in our organization from 22nd June 2020 to 13th July 2020.

Project title is "Measurement of service quality of an Automobile Service Centre using SERVQUAL Model-A study at Srijaya Motors, Yelahanka, Bengaluru"

During this stay at Srijaya Motors, Yamaha his character, conduct and behavior was good with us.

We wish a bright future in his future endeavor.

Srijaya Motors, Yamaha Yelahanka Newtown Bengaluru-560064



Date: 26/08/2020

Place: Yelahanka, Bengaluru



BASAVANAGUDI BRANCH

Ref. No. IBL/BBV/BASAVANAGUDI/2020/068

Date:22-06-2020

CERTIFICATE

This is to certify that Mr. NARAYANA ERAPPA KALAKERI(CM181215), M.com a student of Sindhi college, kempapura Hebbal, Bengaluru-560024 completed project work regarding "A STUDY ON BANKING SERVICE FOR FINANCIAL INCLUSION WITH SPECIAL REFERENCE TO INDUSIND BANK LTD,.BASAVANAGUDI".

He completed his project work successfully using the required available resources in 4 weeks. During this period, we found his hard working and sincere.

Branch Manager

Indusind Bank Limited

Basavangudi Branch: No 87, 2nd Floor, Bull Temple Road Basavangudi Benguluru-560019,India.

Tel: (080) 2642 64104. Fax: (080) 2656 0401

Regd. Office: 2401gen. Thimmayya Rd. (contonment), Pune 411 001, India, Tel: (020) 2634 3201 Fax(020) 2634 3241



Project Completion Certificate

3 messages

Pushpa (SBC MAIN OFFICE ADMIN) <sbcmoadmin@vrllogistics.com> To: niranjann358@gmail.com

Tue, 25 Aug 2020 at 12:40 p.m.

To

The Principal Sindhi College Bengaluru-24

Dear Sir,

This is to certify that Mr.Niranjan M Register No.CM181216, 4th Semester M.Com student of your college, has completed his project in our organisation under the title "A Study on Impact of Logistics Management Practices on Performance of the Company, A Special reference with VRL Logistics Limited, Bengaluru.

During the tenure he was found polite, honest and hardworking. We wish

him all the best for his future ahead.

Regards

Pushpa.V.Jadhav
Manager Administration
VRL Logistics Limited
Bengaluru Main office
Mobile:9342392354

E-mail:sbcmoadmin@vrllogistics.com



SINDHI SEVA SCHOOL

(A FREE SCHOOL for the Economically Underprivilged)

Sindhi Seva Bhavan, Anjaneya Temple Road, Netaji Nagar, 1st 'A' Cross, Hebbal Kempapura, Bangalore - 560 024.

Sponsors: SINDHI SEVA SAMITI

26.08.2020

The principal, Sindhi College 33/2B Hebbal Kempapura Bangalore-560024

Sub: Project work by M com student

Dear Sir,

With reference to your letter dated 26.08.2020, we wish to confirm that Mr Nithun Rao V N, a student of your college having Regn CM181217 underwent practical training in our institute from 28.01.2020 to 28.02.2020 and completed his project work to fulfil the academic requirement.

We found sincere and taking good interest during the period. We wish success in his career

Thanking you,

You're faithfully, From Sindhi Seva School

PRINCIPAL SINDHI SEVA SCHOOL

Sindhi Seva Samiti, Netaji Nagar, Kempapura, Hebbal, Bangalore - 24



CERTIFICATE

This is to certify that **POOJA.M** (**Reg No: CM181218**) SINDHI COLLEGE, BENGALURU student studying M.COM has undertaken Project in sharekhan as "A STUDY ON STOCK MARKET VOLATILITY WITH REFERENCE TO IT SECTOR AT SHAREKHAN LTD". At SHAREKHAN in partial fulfilment of her acdaemic requirement.





To whomsoever it may concern

This is to inform you that **Mr Prem Kumar M**, Reg No:**CM181220** an M.Com Student at Sindhi College, Bangalore has completed his Project at Acclaim Motors Pvt Ltd for a period of six weeks. He has completed his project in the areas of **A Study on Brand Building and Business Promotion strategies of Royal Enfield, Bengaluru North and has complied with the norms and rules of Acclaim Motors pvt Itd**, Yelahanka.

Warm Regards

S Madhu suo

(9632881122)

(HR, Acclaim Motors Pvt Ltd)



ರಿ. ನಂ. 99/76-77 ಸ್ಥಾಪನೆ : 1978 ಟಿನ್ ನಂ.



ರೇಷ್ಠೆ ಬೆಳೆಗಾರರ ಹಾಗೂ ರೈತರ ಸೇವಾ ಸಹಕಾರ ಸಂಘ ನಿ.

ನಲ್ಲೂರು, ದೇವನಹಳ್ಳಿ ತಾಲ್ಲೂಕು, ಬೆಂಗಳೂರು ಗ್ರಾಮಾಂತರ ಜಿಲ್ಲೆ

ದಿನಾಂಕ: 17-8-2020

ಕ್ರಮ ಸಂಖ್ಯೆ :

CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

This is to certify that MR. RAJASHEKHARA.S.P(CM181221) student of M.Com studying in SINDHI COLLEGE, has successfully completed a project work at SERICULTURE CUM FARMERS SERVICE CO OPERATIVE SOCIETY, NALLURU. From 14/02/2020 to 15/08/2020.

He is successfully completed the project work in this society. His knowledge on the subject is good. We appreciate the interest shown by him completing the said project report and wish him all the best.

CEO, SCFSCS NALLURU

For Nalluru Sericulture cum Farmers Service Co. Op. Society

Chief Executive Officer



ಕೋಲಾರ - ಚಿಕ್ಕಬಳ್ಳಾಪುರ ಜಿಲ್ಲಾ ಸಹಕಾರ ಹಾಲು ಉತ್ಪಾದಕರ ಸಂಘಗಳ ಒಕ್ಕೂಟ ನಿ.,

Kolar - Chikkaballapura District Co-operative Milk Producers Societies Union Ltd.

KCMU: ADMN: 3762

: 2020-21

Date: 28.08.2020

CERTIFICATE

This is to certify that RAKSHITHA.D.C (Reg No : CM181222), SINDHI College Hebbal, Bangalore student Studying M.Com has undertaken Project in dairy entitled as "A STUDY ON DEMAND ESTIMATE OF MILK FOR INSTITUTIONAL SALES" at Kolar-Chikkaballapur District Co-operative Milk Producers Societies Union Ltd., Kolar.

For Kolar-Chikkaballapur Milk Union Limited,

Anager (Admn).

Manager (Admin),

Kolar-Chikkaballapur Dist. Co-operative Milk Producer's Societies Union Limited, KOLAR.

N.H.-75, Huthur Post, KOLAR - 563102 ISO-22000: 2005 Certified

Ph: 08152-282300, Fax: 08152-282303

Email: komulmd@yahoo.co.in, komulmd@gmail.com, website: www.komul.coop



EXEDY Clutch India Pvt. Ltd.

Regd. Office & Factory: Plot Nos. 5-P,9-18, 19P, 32-38, Narasapura Industrial Area Appasandra Village,Kolar Taluk & District, Karnataka, India - 563 133.

Tel.: 9108035061, CIN: U35990KA2011FTC060621

August 26, 2020

Certificate of Internship

TO WHOM IT MAY CONCERN

This is to certify that Ms.Rashmi G V of Pursuing Master of Commerce. Batch 2018-20 of Bangalore University her successfully completed her Three Months Internship during 01 Feb 2020 to 31st Jul 2020.

The project was undertaken by her in Exedy Clutch India Pvt Ltd Narasapura Industrial Area, Kolar

Titled: - A Study on "MEASURING EFFICIENCY OF EXEDY CLUTCH INDIA PRIVATE LIMITED USING DUPONT AND ALTMAN Z SCORE MODELS"

The Project on evaluation fulfills all the stated criteria and during the period of her Internship Programme with us she was found punctual, Hardworking and Inquisitive.

I hereby certify her work satisfactory to the best of my knowledge.

We wish Rashmi G V good luck for all future endeavors.

For Exedy Clutch India Pvt Ltd

Ganesha, C

Manager HR & Admin



रेल पहियां कारखाना RAIL WHEEL FACTORY

भारतीय रेल/INDIAN RAILWAYS यलहंका, बेंगलूर- 560 064 YELAHANKA, BANGALORE - 560 064. वित्त सलाहकार व मुख्य लेखा अधिकारी का कार्यालय Office of the Financial Adviser and Chief Accounts Officer

No.RWF/ACS/ADMN/PROJECT

Date: 17.08.2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms.Shwetha N (Reg.No.CM181225), a student of M.Com from Sindhi College, No.33/2B, Hebbal, Kempapura, Bangalore – 560 024 was placed with us for Project from 14.02.2020 to 14.03.2020.

The above Project has been organized as a part of her Study Curriculum.

During the above period, she had undertaken Project on "An effectiveness of material management" at Rail Wheel Factory, Bangalore.

She has shown keen interest while doing the Project. We found her enthusiastic, diligent and creative.

We wish her a bright future and success in her endeavors:

Sr. Assistant Financial Adviser

SENIOR ASST. FINANCIAL ADVISER रेल पहिया कारखाना(भारतीय रेल Rail Wheel Factory (Indian Railw: यलहंका, बेंगलूरु 560 064. Yelahanka, Bengaluru 560 064

Phone: +91-80-28460338 Telefax: +91-80-28460771

gokaldas exports Itd

GEL/SEC/2019-20

DATE: 20TH August, 2020

PROJECT COMPLETION CERTIFICATE

This is to certify that **SPOORTHI B M** Register No **CM181226** 4th semester M. Com student of Sindhi College, Bengaluru has successfully completed her project fromMarch 2020 to August 2020 in our Organisation, under the title "A study on Human Resource Accounting at Indigo Blues, a unit of gokaldas exports, Bengaluru."During the tenure of her project work we found her sincere and hardworking she has successfully completed her project work.

Thank you,

Head of HR Department Indigo Blues.









ಕರ್ನಾಟಕ ವಿಕಾಸ ಗ್ರಾಮೀಣ ಬ್ಯಾಂಕ್ Karnataka Vikas Grameena Bank

(Syndicate Bank Sponsored, Govt. Owned Scheduled Bank)

____ Branc

Branch: ಶಾಖೆ: ನಾಗೇಂದ್ರನಮಟ್ಟಿ,

Ph No.:

G-19

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Ref. No.:

Date: 17/08/2020

CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. SURESH R, Reg.No: CM181227 Student of M.Com studying in SINDHI COLLEGE, Bengaluru, has successfully completed his project on "A study on mobilisation and lending policy adopted by Karnataka Vikas Grameena Bank, Nagendranamatti branck, Haveri District" from 01/06/2020 to 31/07/2020.

He is successfully completed the project work in this bank. His knowledge on the subject is good. We appreciate the interest shown by him completing the said project report and we wish him all success in his future endeavours.

Thanking you,

For Karnataka Vikas Grameena Bank
Manager

Manager

Br: Nagendranamatti, Tq: Dist: Haveri

Head Office: P.B. No. 111, Belgaum Road, DHARWAD -580 008, (Karnataka)

EPABX: (0836) 2448626, 2448328, Fax: 0836-2796843 Grams: "GRAMBANK" Email: kvgbho@gmail.com



ACC Limited
Thondebhavi Cement Works
Madhugiri Road, Thondebhavi,
Gauribidanur (T).
Chikkaballapur Dist - 561 213
Karnataka, India.

Tel: 08155 288802 Fax: 08155 288682 www.acclimited.com

Date: - 20-08-2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms.Sushma.N,Reg.No.CM181228 student of Sindhi College,with Reg.No.CM181228,has completed a virtual project study subjected "cost control improves the organizational performance with Special Reference to ACC Limited" adopted with reference to ACC LTD,Thondebhavi Cement Works.The above project work was provided to fulfill the requirements of her academic curriculum.

For ACC LTD

Authenhaus gratory

Theneshavi Cement Works

Date: 27th August 2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Sushmitha B (Reg No. CM181229) has done her internship Training at R L fine Chem Pvt. Ltd., Bangalore from 27th Feb 2020 to 20th March 2020.

During the internship she demonstrated good understanding / learning skills and was able to complete the project successfully on time.

We wish her all the best for her future endeavours.

For R L Fine Chem Pvt. Ltd.

General Manager HR





KARNATAKA STATE WAREHOUSING CORPORATION

* CERNMENT STATE OF THE STATE O

"BEEJA BHAVANA" 4th & 5th Floor, Ballari Road, Hebbal, Bengaluru-560 024.
e-mail: mdkswc2018@gmail.com/md@karnatakawarehousing.in website: www.kswc.in

Office: 080-2341 5675 | Fax: 080-2341 5672

WHIM SO EVER CONCERN

This is to certify that Mrs Swathi V Murthy Register No CM1812130 a student of Sindhi College, Centre for Post Graduate Studies ,33/2B, Kempapura, Hebbal, Bangalore has done a study "A STUDY ON JOB COSTING IS AN ACTIVITY- BASED COSTING: AN EMPRICAL EVIDENCE AT KARNATAKA STATE WAREHOUSING CORPORATION, BANGALORE" She has attended the project study work during May to July-2020. Her attendance in our origination for project work is punctual.

Date:-01-09-2020

Place:Bangalore

DEPUTY GENERAL MANAGER (FINANCE) KARNATAKA STATE WAREHOUSING CORPORATION. BANGALORE



#25,26A(Part),KIADBIndustrial Area
Doddaballapura,Bangalore-561203, INDIA
Tel.+91.80-2763 0553Fax:+91-80-27630551
E-Mail: Info@suprajit.comWeb: www.suprajit.com
Corporate Identity Number (CIN):U29299KA2004PTC035283

14/08/2020

TO WHOM SO EVER IT MAY CONCERN ·

This is to certify that Mr VINAY SHANKAR MR Reg.No: CM181231 Student of SINDHI COLLEGEBengaluru has successfully completed his project on "A Study on valuation of impacts on cost benefit analysis in suprajit automotive private limited, Doddaballapur" from 14/06/2020 To 15/07/2020 as a part of his curriculum during the period.

During this period, she was exposed to all aspects of our organization like Accounts department ,finance department etc.

We have noticed that, during this period, she has shown keen interest in her assignments.

We wish her all success in her future endeavours.

For Suprajit Automotive Pvt Ltd,

Sadawanda

Registered Office:

#100, Bommasandra Indl. Area, Bangalore - 560 099. INDIA. Tel: +91-80-27833827 /828, Fax: +91-80-2783 3279



ESPEEVEE
Architects & Interior Designers

REG NO. CA/2012/57633

CHIEF ARCHITECT AR.S VEERENDRANATH

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. Ankitha SD bearing Register No. FA180201 studying in 4th semester M com (FA) for the academic year 2019-2020. Center for PG Studies, Sindhi College, Bangalore, has undergone internship at Especyee Architects and Interior Designers, Raichur from 1st June 2020 to 30th June 2020

During the above tenure she was imparted with the projects that are undertaken by Espeevee Architects and Interior Designers, Raichur and worked on internship project titled "A Study on Project Cost Management with reference to Espeevee Architects and Interior Designers, Raichur"

Chief Architect (Founder)

VEERENDRANATH S

SreeEswarSeva Credit Co-operative Society

56, 12th Cross, Sampige Road, Malleshwaram, Bengaluru 560003



Date: 25/08/2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Apoorva MV of Sindhi College, Bengaluru Bearing Reg. No. FA180202 has Successfully Completed "A study on Non-Performing Assets with reference to SreeEswarSeva Credit Co-operative society, Bengaluru" from 8th March 2020 to 18th August 2020.

She has completed this study to the Satisfaction of all concerned. We Wish Her All the Best in Her Future Endeavors.

SREE ESWAR SEVA CREDIT CO-OPERATIVE SOCIETY



Vindhya Enterprises

P.V.C DOORS STEEL MAIN DOORS IMPORTED DOORS FOLDING DOORS

#1173/ 13, 1st Floor, Dr. Rajkumar Road (Opp. RajaRejeshwari Kalyana Mantapa) Prakash Nagar, Bangalore 560021

JUNE 5 202

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Lalith J of Sindhi College, Bangalore Bearing Reg. No. FA180204 has Successfully Completed A Study on the "PRICING STRATEGY" At Vindhya Enterprises, Bangalore from 18th February 2020 to 18th March 2020.

He Has Done this Study Under the Guidance of Mr. Ramesh of our Department.

He has completed this study to the Satisfaction of all concerned.

We Wish Him All the Best in His Future Endeavors.

VINDHYA ENTERPRISES

Vindhya Enterprises #1173/13, 1st Floor, Dr. Rajkumar, Road, Prakas Nagar, Bangalore-560 021

HR MANAGER

Make Life Easy

DATE: 28/08/2020

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Manoj Kumar Registration No. FA180205, 4th Semester M.Com(FA) Student of Sindhi College, Bengaluru has completed his project in our Organization under the title "An Evaluation of Gold Schemes" with reference to Manappuram Finance Ltd, for the period of 4 weeks from 18th February 2020.

He has completed this study to the Satisfaction of all concerned.

We wish him all the best for his future.

For MANAPPURAM FINANCE LTD

galore-8

HR MANAGER

India's First Listed and Highest Credit Rated Gold Loan Company



DATE . 02.09.2020

Rittal India private limited

No.23 & 24

KIADB Industrial Area

veerapura doddaballapura - 561 203

Bengaluru district.

+91 (0) 7204136041 +91 (0) 9844175173

CERTIFICATE

info@rittal-india.com

www.rittal-india.com

CIN: U31100KA1994PTC015641

This is to certify that Mr. Monish . M (Reg No. FA180206), student of second year, M.com (FA) from sindhi college of Bangalore has done project in our organization, Rittal India private limited, during 14.02.2020 to 14.03.2020.

The project was done on "A liquidity risk management with reference to Rittal India private limited".

During his project work, we found his sincere and hardworking, we wish him all the best in his future endeavours.

For Rittal India pvt Itd

RITTAL INDIA PVT. LTD. #23 & 24 KIADB (Industrial Area Veeraptica, Doddaballapur-561203

Human Resources

Priya P

CLOSURES POWER DISTRIBUTIO

CLIMATE CONTROL

IT INFRASTUCTURE

SOFTWARE & SERVICE

The Oriental Insurance Company, Ltd.

Regional office: S.V.C. 4th Floor,

#44/45, Leo shopping complex,

Residency Road, Bengaluru-560025



This is to certify that the dissertation titled "A Study On Role Of Claims Management In The Growth Of An General Insurance Firm With Reference To The Oriental Insurance Company Limited, Bangaluru." is a work of Mr. Ravi Prakash.V.G. bearing University Register Number FA180207 of course M.com(FA) standent of sindhi college, has fully successfully completed the project work from 03/06/2020 to 30/07/2020

Date: - 27/08/2020 Place: - Bangalwu.

SIGNATURE OF DIRECTOR



LUXURY

March 23, 2020

DISSERTATION COMPLETION CERTIFICATE

This is to certify that Ms. Rithu Veeresh with Register number FA180208 M.com (FA) from Sindhi College Bengaluru has completed dissertation report titled "A Study On Input Tax Credit Relating To Hotel Industry with special reference to ITC WINDSOR (A Luxury Collection Hotel), Bengaluru" from 14/2/2020 - 23/3/2020.

FOR ITC LTD -ITC WINDSOR

AUTHORISED SIGNATORY

PBhatera



#25, WINDSOR SQUARE, GOLF COURSE ROAD, BENGALURU 560 052, KARNATAKA, INDIA
T 91 80 2226 9898 - F 91 80 2226 4941

REGISTERED OFFICE: ITC LIMITED, VIRGINIA HOUSE, 37 J.L. NEHRU ROAD, KOLKATA 700 071, WEST BENGAL, INDIA
CORPORATE IDENTITY NUMBER: L16005WB1910PLC001985 VISIT US AT WWW.ITCPORTAL.COM

ITCHOTELS.IN/ITCWINDSOR LUXURYCOLLECTION.COM/ITCWINDSOR

T: 2662 1893, 2661 4950, 2660 0486



UDAYA SOUHARDA CREDIT CO-OPERATIVE LTD.

(Regd. No. JRB: RGN: 69:148:2003-04)

"Udaya Sahakara Bhavana", # 29/11, 1st Main, Mount Joy Road, Hanumanthanagar, Bengaluru - 19 E-mail: udayasou1996@gmail.com / udayasouharda@yahoo.com

USCCL/PROJ/2020-21/100

Date: 28/08/2020



CERTIFICATE

This is to certify that

Mr. SAGAR.B.P

Regd. No. FA180209

A STUDENT OF M.COM (FA)

SINDHI COLLEGE

#33/2B, Hebbal, Kempapura, Bengaluru-24.

Has successfully carried out his project work on "A STUDY ON CREDIT MANAGEMENT AT UDAYA SOUHARDA CREDIT CO-OPERATIVE LTD" during 14.02.2020 to 14.03.2020 under the guidance of Mr. SHARATH. N (Internal Guide)

We are satisfied with the project and appreciate the commitment towards the project preparation.

For Udaya Souharda Credit Co-operative Ltd.

Chief Executive Officer





24th AUGUST 2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Srikanth Vof Sindhi College, Bangalore Bearing RegisterNo. FA180210 has successfully completed A Study on the "Performance Evaluation of Mutual fund Schemes" at Kotak Securities, Bangalore from 24th February 2020 to 31stMarch 2020.

He Has Done this Study Under the Guidance of Mr. Ashok Patil.

He has completed this study to the Satisfaction of all concerned.

We Wish Him All the Best in His Future Endeavors.

KOTAK SECURITIES

KOTAK SECURITE

BENGALUNG

BRANCH MANAGER



Date: 28-08-2020

TO WHOM SO EVER IT MAY CONCERN

We here certify that Mr. Suhas .H with Register no. FA180211 Student of Mcom F.A) From Sindhi College, Bangalore-560024 he has satisfactory completed his Project in our Organisation under the title "A Study On Value Chain Ananlysis" with reference to Supreme Solar Systems Bangalore, for period of 4 weks from 18th February 2020.

We wish Him all the best for his future.

For SUPREME SOLAR SYSTEMS



Human Resource

proved by:

















KARNATAKA MILK FEDERATION

25th AUG 2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Vasanth Kumar. Sof Sindhi College, Bangalore Bearing RegisterNo. FA180212 has successfully completed A Study on "Cost Control" and its Impact on "Cost of Production" at Cattle Feed Mixing Plant under our Karnataka Milk Federation, Bangalore from 25thFebruary 2020 to 15thApril 2020.

He has done this Study underthe Guidance of Mr. Prakash.

He has completed this study to the Satisfaction of all concerned.

We Wish Him All the Best in His Future Endeavors.

KARNATAKA MILK FEDERATION

Karnataka Co Operative Milk Federation Ltd., Dr. M.H. Mariago Oda Road, Bengaloru - 560 029.

GENERAL MANAGER'



Project Completion Certificate

Pushpa (SBC MAIN OFFICE ADMIN) <sbcmoadmin@vrllogistics.com> To: vinaykiccha197@gmail.com

Thu, 27 Aug, 2020 at 2:14 PM

PROJECT COMPLETION CERTIFICATE

This is to certify that Mr. Vinay .B Registration No.FA180213, 4th Semester M.Com(FA) Student of Sindhi College, Bengauru has completed his Project in our Organisation under the title " A Study on Segment Report" with reference to VRL Logistics Limited, for the period of 4 weeks from 15th February 2020.

During the tenure, he was found Polite, honesh and hardworking.

We wish him all the best for his future.

Regards

Pushpa.V.Jadhav Manager Administration **VRL Logistics Limited** Bengaluru Main office

Mobile:9342392354

E-mail:sbcmoadmin@vrllogistics.com





TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Vishnu K, Register No. FA180214 a student of M.COM(FA) (Bengaluru Central University) of Sindhi College, # 33/28, Hebbal Kempapura has undergone training in Customer Relationship Management at Yamaha Motors authorized Dealers "Perfect Riders" for a period of 5 weeks (18/02/2020 – 18/03/2020)

His moral conduct and interest towards learning the objective was of very high standards.

WE WISH HIM ALL THE SUCCESS IN FUTURE.

Date: 11/08/2020

Place: Yamaha Motors "Perfect Riders"

PAGARINA

Authorised Dealer For India YAMAHA MOTOR Pvt. Ltd.

Head Office: #127 Lalbagh Road, Bengaluru- 560 027. Tel: 8497816000 | 9743546000

Branch: #1065/A, 36th Cross, East End Road, 'T' Block, Jayanagar, Bengaluru - 560 041 | Tel:8497816000 | 874881600.

Branch: #40/12, Kumarakrupa Road, Kumarapark East, Bengaluru - 560 001. Tel:8497816000 | 8152916000

Perfectriders@ymail.com Perfectriders.in



BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

No. EEE/HD/AO/AAO/SA/ Encl: Office of the Executive Engineer (Ele)., Hebbal Division,BESCOM, Yelahanka, Bangalore-64. Dated: 27-Aug-2020

TO WHOM SO EVER IT MAY CONCERN.

This is to certify that Miss Yogitha .M of Sindhi College, Bengaluru bearing Reg No: FA180216 as successfully completed a study on the "YIELD MANAGEMENT" at BESCOM Bangalore, from 24-Feb-2020 to 28-Mar-2020.

She has done the study under the Guidance of Sri P.Ananda Murthy of our Department.

She has completed the study to the satisfaction of all concern.

We wish her all the best in her future Endeavors.

Yours faithfully,

Executive Engineer (EE)e), Hebbir Division, BESCOM, Yelahanka, Bangara-560 986064





(Permanently Affiliated to Bengaluru Central University) Recognised by UGC under 2(f) &12(B)

Date: 26-08-2020

CERTIFICATE

Pattern of Salaried Class with reference to Higher Education Institutions at Yelahanka^m is an original work of Ms. Mahalakshmi M bearing Register No: CM181210 of IV Semester M.Com is a bonafide student of Sindhi College, Bengaluru. She has successfully completed her study in the partial fulfilment for the award of MASTER OF COMMERCE as prescribed by the Bengaluru Central University. Bengaluru during the academic year 2019-20. The matter presented in this report has not formed a basis for the award of any degree: diploma by Bengaluru Central University or any other University as per our knowledge.

It is hereby certified that she has completed the project satisfactorily.

Place: Bengaluru

Date: 26 - 00 - 2020



(Permanently Affiliated to Bengaluru Central University) Recognised by UGC under 2(f) &12(B)

Date

CERTIFICATE

This is to certify that the Dissertation titled "A Study on Impact of Goods and Services Tax on Pharmaceutical Retailing with reference to North Bengaluru" is an original work of Ms. Mubasheera Khanam E bearing Register No: CM181213 of IV Semester M.Com is a bonafide student of Sindhi College, Bengaluru. She has successfully completed her study in the partial fulfilment for the award of MASTER OF COMMERCE as prescribed by the Bengaluru Central University, Bengaluru during the academic year 2019-20. The matter presented in this report has not formed a basis for the award of any degree/ diploma by Bengaluru Central University or any other University as per our knowledge.

It is hereby certified that she has completed the project satisfactorily.

Place: Bengaluru

Date: 29/8/20





(Permanently Affiliated to Bengaluru Central University)
Recognised by UGC under 2(f) &12(B)

Ref:

Date:

CERTIFICATE

Payments and Its Accessibility For Street Vendors in Hosakote, Bengaluru Rural" is an original work of Ms. Mouna K L bearing Register No: CM181212 of IV Semester M.Com is a bonafide student of Sindhi College, Bengaluru. She has successfully completed her study in the partial fulfilment for the award of MASTER OF COMMERCE as prescribed by the Bengaluru Central University, Bengaluru during the academic year 2019-20. The matter presented in this report has not formed a basis for the award of any degree/diploma by Bengaluru Central University or any other University as per our knowledge.

It is hereby certified that she has completed the project satisfactorily.

Place: Bengaluru

Date: 28 08 20



(Permanently Affiliated to Bengaluru Central University) Recognised by UGC under 2(f) &12(B)

Ref:

Date:

CERTIFICATE

Sustainability Reporting Practices of Indian Companies" is an original work of Ms. RanjithaR bearing Register No: CM181223 of IV Semester M.Com is a bonafide student of Sindhi College, Bengaluru. She has successfully completed her study in the partial fulfilment for the award of MASTER OF COMMERCE as prescribed by the Bengaluru Central University, Bengaluru during the academic year 2019-20. The matter presented in this report has not formed a basis for the award of any degree/ diploma by Bengaluru Central University or any other University as per our knowledge.

It is hereby certified that she has completed the project satisfactorily.

Place: Bengaluru

Date: 29/8/20





ಸಿಂಧಿ ಮಹಾವಿದ್ಯಾಲಯ SINDHI COLLEGE

(Permanently Affiliated to Bengaturu Central University) Recognised by UGC under 2(f) &12(6)

Ket

Date

CERTIFICATE

Preferences of Salaried Employees with special reference to Doddaballapur, Bangalore Rural District" is an original work of Ms. Preethi D S bearing Register No CM181219 of IV Semester M.Com is a beneathde student of Sindhi College, Bengaluru She has successfully completed her study in the partial fulfilment for the award of MASTER OF COMMERCE as prescribed by the Bengaluru Central University, Bengaluru during the academic year 2019-20. The matter presented in this report has not formed a basis for the award of any degree diploma by Bengaluru Central Ensyency or any other University as per our knowledge.

It is hereby certified that she has completed the project satisfactority

Place Bengaluru

Date 28/8/2020

Principal





ef:

ಸಿಂಧಿ ಮಹಾವಿದ್ಯಾಲಯ SINDHI COLLEGE

(Permanently Affiliated to Bengaluru Central University) Recognised by UGC under 2(f) &12(B)

Date:

CERTIFICATE

This is to certify that the Dissertation titled "Relevance of Green Banking Products in Cashless Era – A Study at Kolar District" is an original work of Ms. Anusha A S bearing Register No: CM181201 of IV Semester M.Com is a bonafide student of Sindhi College, Bengaluru. She has successfully completed her study in the partial fulfilment for the award of MASTER OF COMMERCE as prescribed by the Bengaluru Central University, Bengaluru during the academic year 2019-20. The matter presented in this report has not formed a basis for the award of any degree/ diploma by Bengaluru Central University or any other University as per our knowledge.

It is hereby certified that she has completed the project satisfactorily.

Principal

Place: Bengaluru

Date: 29 08 2020





ಸಿಂಧಿ ಮಹಾವಿದ್ಯಾಲಯ SINDHI COLLEGE

(Permanently Affiliated to Bengaluru Central University) Recognised by UGC under 2(f) &12(B)

Date: 26-08-2020

CERTIFICATE

This is to certify that the Dissertation titled "Role of Microfinance and Self-help Group in Women Empowerment: A Study of Ramanagaram District" is an original work of Ms. Chandana S bearing Register No: CM181203 of IV Semester M.Com is a bonafide student of Sindhi College, Bengaluru. She has successfully completed her study in the partial fulfilment for the award of MASTER OF COMMERCE as prescribed by the Bengaluru Central University, Bengaluru during the academic year 2019-20. The matter presented in this report has not formed a basis for the award of any degree/diploma by Bengaluru Central University or any other University as per our knowledge.

It is hereby certified that she has completed the project satisfactorily.

Principal

Place: Bengaluru

Date: 26-08-2020



ಸಿಂಧಿ ಮಹಾವಿದ್ಯಾಲಯ SINDHI COLLEGE (Permanently Affiliated to Bengaluru Central University) Recognised by UGC under 2(f) &12(B)

NAAC Accredited 18O9001:2015 Certified Institution

Ref:

Date: 29/08/20

CERTIFICATE

This is to certify that the Dissertation titled "A Study on Role of Government in Promoting Women Entrepreneurship in India" is an original work of Ms. Kiran Meghana V bearing Register No: CM181209 of IV Semester M.Com is a bonafide student of Sindhi College, Bengaluru. She has successfully completed her study in the partial fulfilment for the award of MASTER OF COMMERCE as prescribed by the Bengaluru Central University. Bengaluru during the academic year 2019-20. The matter presented in this report has not formed a basis for the award of any degree/ diploma by Bengaluru Central University or any other University as per our knowledge.

It is hereby certified that she has completed the project satisfactorily.

Place: Bengaluru

Date: 20/8/20

Principal



ಸಿಂಧಿ ಮಹಾವಿದ್ಯಾಲಯ SINDHI COLLEGE

(Permanently Affiliated to Bengaluru Central University) Recognised by UGC under 2(f) &12(B)

Date:

CERTIFICATE

Trends and their Impact on Gold" is an original work of Ms. Walaa Hisham Mustafa Ahmed bearing Register No: FA180215 of IV Semester M.Com (F&A) is a bonafide student of Sindhi College, Bengaluru. She has successfully completed her study in the partial fulfilment for the award of MASTER OF COMMERCE (F&A) as prescribed by the Bengaluru Central University, Bengaluru during the academic year 2019-20. The matter presented in this report has not formed a basis for the award of any degree/ diploma by Bengaluru Central University or any other University as per our knowledge.

It is hereby certified that she has completed the project satisfactorily.

Place: Bengaluru

Date: 31-68-2020

Principal

BANGALORE UNIVERSITY

REGULATIONS, SCHEME AND SYLLABUS

For the course

I to VI Semesters

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSc(CS))

(Choice Based Credit System (Semester Scheme) –Y2K14 Scheme)

Revised w.e.f.

Academic Year 2014-2015 and onwards

Title of Papers, Scheme of Study and Examination for B Sc in Computer Science, Revised w.e.f. 2014–2015.

Com	Daman	Title of the name	II a uma /		Marks		Credits
Sem	Paper	Title of the paper	Hours/ Week	IA	Exam	Total	
I	CS1T	Programming Concepts using C	4	30	70	150	3
	CS1P	C Programming Lab	3	15	35		
11	CS2T	Data Structures	4	30	70	150	3
II	CS2P	Data Structures Lab	3	15	35		
III	CS3T	Database Management System and Software Engineering	4	30	70	150	3
	CS3P	DBMS Lab	3	15	35		
	CS4T	Operating System and UNIX	4	30	70		
IV	CS4P	UNIX Programming Lab	3	15	35	150	3
	CS5T1	Object Oriented Programming using JAVA	3	30	70	150	3
	CS5P1	Java Programming Lab	3	15	35	130	3
V	CS5T2	Visual Programming	3	30	70	150	2
	CS5P2	Visual Programming Lab	3	15	35	150	3
	CS6T1	Web Programming	3	30	70	150	
	CS6P1	Web Programming Lab	3	15	35	130	6
VI	CS6T2	Computer Networks	3	30	70	150	0
	CS6P2	Project Lab	3	15	35	130	

Collision Detection and Backoff wih CSMA/CD, Ring Topology and Token Passing, Self-Healing Token Passing Networks, ATM. Hardware addressing and Frame Type Identification: specifying a recipient, How LAN hardware uses addresses to filer packets, format of a physical addresses, broadcasting, Multicast addressing, identifying packet contents, frame headers and frame format. LAN Wiring, Physical Topology and Interface Hardware: speeds of LANs and computers, Network Interface Hardware, The connection between a NIC and a network, original thick Ethernet wiring, connection multiplexing, thin Ethernet wiring, twisted pair Ethernet, Network interface cards and wiring schemes, categories of wires.

Unit - III

Extending LANs: Fiber Optic Extensions, Repeaters, bridges, frame filtering, switching, Long-distance and Local Loop Digital Technologies: Digital telephony, Synchronous communication, SONET, ISDN, Asymmetric Digital Subscriber Line Technology, other DSL technologies, cable modem technology, upstream communication, Broadcast Satellite systems. WAN technologies and Routing: Large Networks and Wide Areas, Packet switches, forming a WAN, store and forward, Physical addressing in a WAN, Next-Hop forwarding, Source independence, Routing Table Computation, Shortest path computation in a Graph, distance vector routing, like-state routing, Example of WAN technologies. Network Characteristics: Network ownership, Network performance characteristics, Jitter. Protocols and Layering: the need for protocols, the seven layers, Stacks: Layered Software.

Unit - IV

Internetworking: internet architecture, A virtual Network, Layering and TCP/IP protocols. Internet Protocol Addresses, APR, IP Datagram's and Datagram Forwarding, IP Encapsulation, Fragmentation, and Reassembly, IPv6, ICMP, UDP, TCP, Internet routing, DNS, WWW, MAIL. [13 hours]

Text Books:

1. Douglas E Comer and M.S.Narayana, "Computer Networks and Internets", 5th edition, Pearson Education, 2013.

Reference Books:

- 1. Andrew S. Tanenbaum, "Computer Networks", Fifth Edition, Prentice Hall, 2012
- 2. Behrouz Ferouzan, "Introduction to Data Communications and Networking", TMH, 1999.
- 3. S. Keshav, "An Engineering Approach to Computer Networks", Pearson Education, 2nd Edition.

CS6P2: PROJECT LAB

Total Practical hours / week: 03 hours

Students are required to take up a problem and develop a system by making use of the existing infrastructure available in their respective colleges.

Scheme of Evaluation is as follows:

Project Demo - 15 Marks
Project VIVA - 15 Marks
Project Report - 5 Marks
Total - 35 Marks

BANGALORE UNIVERSITY

REGULATIONS, SCHEME AND SYLLABUS

For the course

I to VI Semesters

BACHELOR OF COMPUTER APPLICATIONS (BCA)

(Choice Based Credit System (Semester Scheme) –Y2K14 Scheme)

Revised w.e.f.

Academic Year 2014-2015 and onwards

Title of Papers and Scheme of Study & Examination for BCA (Bachelor of Computer Applications) Under Choice Based Credit System - Semester System (Revised w.e.f. 2014-2015)

C	D4	Paper	T:41	Hours		Marks	,	Cre	edits
Semester	Part	Code	Title of the paper	/ Week	IA	Exam	Total	Subject	Semester
	Part - 1	BCA101T	Indian Language	4	20	80	100	2	
	Part - 1	BCA102T	English	4	20	80	100	2	
		BCA103T	Problem Solving Techniques using C	4	30	70	100	2	
T	Part – 2	BCA104T	Digital Electronics	4	30	70	100	2	16
I	Part – 2	BCA105T	Discrete Mathematics	5	50	100	150	3	10
		BCA103P	C Programming Lab	3	15	35	50	1	
		BCA104P	Digital Electronics Lab	3	15	35	50	1	
	Part – 3	-	Foundation Course	3	30	70	100	2	
	rait – 3	-	CC & EC		50		50	1	
	Part – 1	BCA201T	Indian Language	4	20	80	100	2	
	1 art – 1	BCA202T	English	4	20	80	100	2	
		BCA203T	Data structures	4	30	70	100	2	
		BCA204T	Database Management System	4	30	70	100	2	
II	Part - 2	BCA205T	Numerical and Statistical Methods	5	50	100	150	3	16
		BCA203P	Data Structures Lab	3	15	35	50	1	
		BCA204T	DBMS Lab	3	15	35	50	1	
	Part - 3	-	Foundation Course	3	30	70	100	2	
	Part - 3	-	CC & EC	-	50	-	50	1	
	Part - 1	BCA301T	Indian Language	4	20	80	100	2	
	rait - 1	BCA302T	English	4	20	80	100	2	
		BCA303T	Object Oriented Programming using C++	4	30	70	100	2	
III	Part - 2	BCA304T	Financial Accounting and Management	4	30	70	100	2	16
		BCA305T	Operating System	5	50	100	150	3	
		BCA303P	C++ Lab	3	15	35	50	1	
		BCA304T	Accounting Package Lab	3	15	35	50	1	
	Part - 3	-	Foundation Course	3	30	70	100	2	
	Part - 3	-	CC & EC	-	50	-	50	1	
	Part - 1	BCA401T	Indian Language	4	20	80	100	2	
	rait - 1	BCA402T	English	4	20	80	100	2	
		BCA403T	Visual Programing	4	30	70	100	2	
		BCA404T	Unix Shell programming	4	30	70	100	2	
137	Part - 2	BCA405T	Operation Research	5	50	100	150	3	16
1 4	IV BCA		Visual Programming Lab	3	15	35	50	1	10
		BCA404T	UNIX Lab	3	15	35	50	1	
	Part - 3	-	Skill Development Course	3	30	70	100	2	
			CC & EC	-	50	-	50	1	

		Paper		Hours		Marks	S	Cro	edits
Semester	Part	Code	THE OF THE DADER		IA	Exam	Total	Subject	Semester
		BCA501T	Data Communication and Networks	4	50	100	150	3	
		BCA502T	Software Engineering	4	50	100	150	3	
		BCA503T	Computer Architecture	4	50	100	150	3	
		BCA504T	Java Programming	4	30	70	100	2	
V	Part - 2	BCA505T	Microprocessor and Assembly Language	4	30	70	100	2	20
		BCA504P	Java Programming Lab	3	15	35	50	1	
			Assembly Language Programming Lab	3	15	35	50	1	
		BCA506P	Project	8	50	100	150	3	
	Part - 3	-	Skill Development Course	3	30	70	100	2	
		BCA601T	Theory of Computation	4	50	100	150	3	
		BCA602T	System Programming	4	50	100	150	3	
	Dont 2	BCA603T	Cryptography and Network Security	4	50	100	150	3	
VI	Part–2	BCA604T	Web Programming	4	30	70	100	2	20
V 1		BCA604P	Web Programming Lab	3	15	35	50	1	20
		BCA605P	Project Work	16	10 0	200	300	6	
	Part – 3 - Skill Development Course		3	30	70	100	2		

BCA505P: ASSEMBLY LANGUAGE PROGRAMMING LAB PART - A

- 1. Exchange of two 16-bit numbers.
- 2. Addition & Subtraction of two 8 -bit HEX numbers.
- 3. Subtraction of two 16 –bit numbers.
- 4. Two n-byte Number addition.
- 5. Block Transfer.
- 6. 'N' Decimal Number addition.
- 7. 4-Digit BCD addition.
- 8. Subtraction of 16 –bit number.
- 9. Sorting of array in ascending order.
- 10. Multiplication of 2 digit BCD

PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note:

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs - 10 Marks
Execution of one program - 10 Marks
Formatting the Output - 05 Marks
Viva - 05 Marks
Record - 05 Marks
Total - 35 Marks

BCA506P: PROJECT

Students can develop a project in team (maximum three members). They should implement their project in college in any RDBMS package or any language available in the college. The students have to collect data outside practical hours. Project may be taken outside but must be implemented in the college. Internal marks can be awarded by the guide by evaluating the performance of the students during the course of project work. In viva-voce the questions must be directed only on the project work to access the involvement and understanding of the problem by the students.

The project carries 100 marks is distributed as follows:

Demonstration and Presentation 65 Marks Viva-voce 25 Marks Project Report 10 Marks

SIXTH SEMESTER BCA

BCA601T: THEORY OF COMPUTATION

Total Teaching Hours: 60 No of Hours / Week: 04

Unit - I

Introduction to Finite Automata: The central concepts of Automata theory; Deterministic finite automata; Nondeterministic finite automata. An application of finite automata,

BCA605P: PROJECT WORK

Students should individually develop a project. They should implement their project in college in any RDBMS package or any language available in the college. The project should web based. The students have to collect data outside practical hours. Project may be taken outside but must be implemented in the college. Internal marks can be awarded by the guide by evaluating the performance of the students during the course of project work. In viva-voce the questions must be directed only on the project work to access the involvement and understanding of the problem by the students.

The project carries 200 marks is distributed as follows:

Demonstration and Presentation 130 Marks Viva-voce 50 Marks Project Report 20 Marks

BANGALORE UNIVERSITY

SUBJECT: ELECTRONICS

Regulations and Scheme of Study for the B Sc (Electronics) course [From 2014-15]

Preamble:

Bangalore University wishes to initiate qualitative and substantial changes to its UG program. One step towards this is to introduce the Credit Based Choice System in all its programs.

The rules governing the CBCS (semester scheme) UG program are as per the university guidelines.

The course structure has been detailed in Appendix -1 and syllabus in Appendix -2.

UNIT 5: 04 hours

PIC microcontrollers

Core features of PIC microcontrollers, overview of various PIC microcontroller series. PIC 16F877A-features, pin diagram, I/O ports, interfacing with LCD.

Semester VI - Practical VIII

EL-602P PROJECT WORK

- Students in a group, not exceeding **THREE**, should design, fabricate and assemble ONE Electronic project in their respective colleges. The department faculty is required to guide the project work.
- Each student should prepare a report and submit the report at the time of the practical examination duly certified by the concerned faculty guide & HOD.
- Department faculty shall ensure that the entire project work is carried out in their respective colleges by utilising the practical classes assigned to practical VIII. A seminar on the project work is compulsory.

* * *



INING TO *MASTER OF COMMERCE* (M.Com) BC SYSTEM FROM 2014-15 ONWARDS

ve of the Master of Commerce course is to impart to the

Students, professional education and training in various aspects of business and its environment and provide them with opportunities to develop managerial and analytical skills in order to meet the challenges of business at the national and global level.

2. Eligibility for Admission:

A candidate who has passed the B.Com/B.B.M/ BBS and BBA Degree examination of this University or of any other University re

cognized as equivalent thereto and has secured not less than 50% of the marks in the aggregate in all the Commerce subjects of Business Education in all the years (Examinations of the B.Com/BBM course) shall be eligible for admission to the course. In the case of SC/ST/Cat-I students and blind students the minimum percentage of marks required shall be less by 5%

3. <u>Duration of the Course:</u>

The course of study for M.Com, degree shall extend over a period of two years divided into 4 (four) semesters. Each Semester will be of 16 weeks or more duration with a minimum of 90 actual working days.

4. Scheme of Instruction:

- 1. In each semester there will be seven papers (including practicals)
- 2. There will be 27contact hours per week. This includes practicals.
- 3. Candidates are required to maintain record for computer practicals, which will have to be certified by the Chairman / Co-ordinator of the course, failing which students will not be permitted to take the end semester examination in that subject.

5. Attendance:

Each course (theory/practical) shall be treated as an independent unit for the purpose of attendance. A student shall attend a minimum of 75% of the total instruction hours in a course (theory/practical) including tutorials and seminars in each semester. There shall be no provision for condonation of shortage of attendance and a student who fails to secure 75% attendance in a course shall be required to repeat that semester.

6. Medium of Instruction:

The medium of instruction shall be English. However a candidate will be permitted to write the examination either in English or in Kannada.



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ination:

register for all the papers of a semester when he appears at semester for the first time.

- 8.1 There shall be a University examination at the end of each semester.
- 8.2 The details of the scheme of examination are as given below:

Sl. No.	Course	Duration	No. of papers per semester	Maximum Marks of Per Semester	No. of Credits
1	M.Com	I & II	6+1	700	52 (26+26)

- 8.1 Each semester will normally have six (Hardcore) and one (soft core) paper and each shall be for 100 marks.
- 8.2 (i) The composition of theory and internal assessment marks for each paper will be 70 and 30 respectively. However, in Computer related papers it will be 70+30 (theory + practical).
 - ii. Duration of examination per theory paper of 70 marks shall be for 3 hours, for practicals it will be $1_{1/2}$ (one and half) hours.
 - iii. Practical records will be evaluated as part of the practical examination.
 - iv. In case of practical examinations, students will be assessed on the basis of knowledge of processes, skills operations involved, results/calculations and reporting.
 - v. Practical examination will be conducted with both internal and external examiners. If the external examiner absents, then the examination will be conducted by two internal examiners.
- 8.3 Every theory paper shall ordinarily consist of two/three sections, developed to testing of conceptual skills, understanding skills, comprehension skills, articulation and application skills.
- 8.4 (i) In case of theory papers the various components of internal assessment will be as follows:
 - a) Assignment ó 5 Marks
 - b) Attendance ó 5 marks
 - c) Internal Test ó 20 Marks

(The test shall be for $1_{1/2}$ hour duration carrying 40 marks. The marks scored by the candidate shall be later reduced to 20 marks).

- (ii) The Departmental Council / College / Centre shall notify in the first week of each semester, scheme of internal assessment, containing the details of tests, assignments, and seminars.
- (iii) Co-ordination Committee: In order to monitor IA tests there shall be Co-ordination Committee consisting of the following:
 - 1. Chairman BOS: Chairman
 - 2. One Senior Faculty Member

from affiliated colleges as recommended by the BOS on System and Computers Subject, A Viva-Voce and n for 30 marks will be conducted by external examiners.

c prior to the last working day, I.A. marks secured by the e displayed on the notice board.

- (v) The Departmental Council / College / Centre may decide to give test/seminar to candidates who absent themselves for the above, only if the Council is convinced that the absence of the candidate is on valid grounds. However, the Council will allow the candidate to avail of this provision within the duration of that semester.
- (vi) The statement of internal assessment shall be sent to the Registrar (Evaluation) one week prior to the commencement of that particular semester examination.

8.5 Question Paper Pattern:

Section – A:

Answer any Seven Questions out of Ten. Each Question Carries Two Marks (7x2=14)

Section – B:

Answer any Four Questions out of Six. Each Question Carries Five Marks (4x5=20)

Section – C:

Answer any Three Questions out of Five. Each Question Carries Twelve Marks (3x12=36)

8.6 Dissertation:

Each student will choose business research project/live business problem in a business organization or industry, and prepare a dissertation report. He/she will formulate it as a research/consultancy problem, work under the guidance of a faculty member on it during the II & III semesters, prepare a report based on his/her work under the guidance of a faculty member and submit at the end of each semester. This will be evaluated for 150 marks. Project Dissertation guidance for a faculty member will involve a workload of 5 hours per week in a semester. Dissertation guidance of 8 students by a faculty member will be equivalent to the teaching of one paper per semester. Viva voce examination will be conducted for 50 marks by BOE.

9. Board of Examiners and Valuation of Answer Scripts:

- 9.1 There shall be a Board of Examiners for scrutinizing and approving the question papers and scheme of valuation.
- 9.2 About 50% of the examiners appointed for setting of question papers and valuation work in each semester shall be external.
- 9.3 Each written paper shall be valued by one internal examiner and one external examiner. Each practical examination shall be jointly conducted and evaluated by one internal examiner and one external examiner or two external

are no internal examiners. But not by two internal

narks between two valuation is more than 15% of the Registrar (Evaluation) or his nominee shall check the narks assigned by the two valuers. If there is any mistake

in totaling, it shall be rectified. While checking the total, if it is observed that any one or more of the answers is not valued by one of the valuers, the Chairman, BOE shall advise internal members of the Board of Examiners to value that answer. After receiving the marks, the Chairman, BOE shall make the necessary corrections. Despite all these corrections, if the difference between the two valuations is still more than 15%, the Chairman, BOE shall arrange for third valuation by examiners from the approved panel of examiners.

9.5 In case of two valuations, the average of the two valuations and if there are three valuations, the average of the nearest two valuations shall be taken for declaring results. The candidates not satisfied with the results may apply for photocopies of the answer scripts and / or challenge valuation.

9.6 Challenge Valuation:

A student who desires to challenge the marks awarded to him/her may do so by submitting an application along with the prescribed fee to the Registrar (Evaluation) within 15 days after the announcement of the results. Such candidates shall be provided with a Xerox copy of the answer book after concealing the name of the valuers.

The answer scripts for which challenge valuation is sought for shall be sent to another external examiner. The average of the marks awarded in the challenge valuation and the marks of the earlier valuation which is closer to the challenge valuation shall be the final award.

10. Classification of Successful candidates:

Minimum for a pass in each paper shall be 40% in Semester paper and 50% in aggregate of all the papers in that semester.

The results of successful candidates at the end of each semester shall be declared on the basis of Percentage of Aggregate Marks and in terms of Grade Point Average (GPA) and alpha ó sign grade. The results at the end of the fourth semester shall also be classified on the basis of Percentage of Aggregate Marks and on the basis of the Cumulative Grade Point Average (CGPA) obtained in all the four semesters and the corresponding overall alpha ó sign grade. An eight point grading system, alpha ó sign grade as described below shall be adopted.

First Class with Distinction 70% and above (A+, A++ or O)
First Class 60% and above but less than 70% (A)
High Second Class 55% and above but less than 60% (B+)
Second Class 50% and above but less than 55% (B)
Pass Class 40% and above but less than 50% (C)



ding Scale:

5-<5.5	5.5-<6	6-<7	7-<8	8-<9	9-10
В	B+	A	A+	A++	О

verage (GPA) in a Semester and the Cumulative Grade

Point Average (CGPA) at the end of fourth semester shall be computed as follows:

Computation of Grade Point Average (GPA):

The grade points (GP) in a course shall be assigned based on the basis of actual marks scored in that course as per the table below. They shall be generally percentages divided by 10. The Grade Point Weights (GPW) shall then be calculated as the product of the grade points earned in the course and the credits for the course. The total GPW for a semester is obtained by adding the GPW of all the courses of the semester.

ILLUSTRATION 1 (26 Credits)

Papers	P1	P2	Р3	P4	P5	P6	P7	Total
Max. marks	100	100	100	100	100	100	100	700
% Marks Obtained	77	73	58	76	64	66	82	496
Grade Points Earned (G.P.)	7.7	7.3	5.8	7.6	6.4	6.6	8.2	-
Credits for the Course (C)	4	4	4	4	4	4	2	26
$Total GPW = GP \times C$	30.8	29.2	23.2	30.4	25.6	26.4	16.4	182

Semester Aggregate Marks : 496 / 700 = 70.86%

Classification of Result : First Class with Distinction

The GPA shall then be computed by dividing the total GPW of all the courses of study by the total credits for the semester, $GPA = Total \ GPW / Total \ Credits = 182 / 26 = 7.0$ Semester Alpha Sign Grade: A+

ILLUSTRATION 2 (24 Credits)

Papers	P1	P2	P3	P4	P5	P6	Total
Max. marks	100	100	100	100	100	100	600
% Marks Obtained	67	73	78	76	84	88	466
Grade Points Earned (G.P.)	6.7	7.3	7.8	7.6	8.4	8.8	-
Credits for the Paper	4	4	4	4	4	4	24
Total GPW = GP \times C	26.8	29.2	31.2	30.4	33.6	35.2	186.4

Semester Aggregate Marks: 466 / 600 = 77.67% Classification of Result: First Class with Distinction

GPA = Total GPW / Total Credits = 186.4 / 24 = 7.77

Semester Alpha Sign Grade: A++

11. Calculation of Cumulative Grade Point Average (CGPA):

The Cumulative Grade Point Average (CGPA) at the end of the fourth semester shall be calculated as the weighted average of the semester GPW. The CGPA is obtained by dividing the total of GPW of all the four semesters by the total credits for the programme.

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olete	use period has ended. Thank you for using	I	II	Ш	IV	Total
	PDF Complete.	700	700	600	600	2600
ograde s and i	to Expanded Features	496	560	466	510	2032
	Schiester Alpha Sign Grade	A+	A++	A+	A++	-
	Semester GPA	7.0	8.0	7.77	8.5	-
	Semester Credits	26	26	24	24	100
	Semester GPW	182	208	186.5	204	822.9

Aggregate Percentage of Marks = 2032 / 2600 = 78.15 %

Classification of Result: First Class with Distinction

Cumulative Grade Point Average (CGPA)

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= Total of Semester GPW / Total Credits for the programme = 780.5 /100 = 7.805

Programme Alpha Sign Grade: A++

These are the sample illustrations of computing semester grade point averages and cumulative grade point average and the alpha ó sign grades assigned.

12. MINIMUM FOR A PASS:

- A candidate shall be declared to have passed the PG program if he/she secures at least a CGPA of 4.0 (Course Alpha-Sign Grade C) in the aggregate of both internal assessment and semester end examination marks put together in each unit such as Theory Papers / Practicaløs / Project Work / Dissertation / Viva-Voce.
- 12.2 The candidates who pass all the semester examinations in the first attempts are eligible for ranks provided they secure at least CGPA of 6.0 (or Alpha-Sign Grade A).
- 14.3 The results of the candidates who have passed the fourth semester examination but not passed the lower semester examinations shall be declared as NCL (Not Completed Lower semester examinations). Such candidates shall be eligible for the degree only after completion of all the lower semester examinations.
- 12.4 A candidate who passes the semester examinations in parts is eligible for only Class / CGPA and Alpha-Sign Grade but not for ranking.

12.5 There shall be no minimum in respect of internal assessment.

However minimum pass in each paper shall be 40% in semester end exam (28 Marks out of 70 Marks) and 50% aggregate of all papers in that semester.

- 12.6 A Candidate who fails in any of the unit / dissertation / viva-voce shall reappear in that unit / dissertation / viva-voce and pass the examination subsequently.
- 13. CARRY OVER PROVISION: Candidates who fail in a lower semester examinations may go to the higher semesters and take the examinations.

14. REJECTION OF RESULTS:

i. A candidate who fails in one or more papers of a semester may be permitted to reject the result of the whole examination of that semester. **Rejection of result**



e **permitted**. A candidate who rejects the results shall in of that semester in the subsequent examination.

sed only once in each semester and the rejection once bked.

- iii. Application for rejection along with payment of the prescribed fee shall be submitted to the Registrar (Evaluation) through the department/college together with the original statement of marks within 30 days from the date of publication of the result.
- iv. A candidate who rejects the result is eligible for only class and not for ranking.

15. IMPROVEMENT OF RESULTS:

- i) A candidate who has passed in all the papers of a semester may be permitted to improve the result by reappearing for the whole examination of that semester.
- ii) The reappearance could be permitted twice during double the period without restricting it to the subsequent examination only. The regulation governing maximum period for completing various degree/ diploma programme notified by the University from time to time shall be applicable for improvement of results also.
- iii) The student could be permitted to apply for the improvement examination 45 days in advance of the pertinent semester examination whenever held.
- iv) If the candidate passes in all the subjects in reappearance, higher of the two aggregate marks secured by the candidate shall be awarded for that semester. In case the candidate fails in the reappearance, candidate shall retain the first appearance result.
- v) A candidate who has appeared for improvement is eligible for class only and not for ranking.
 - Internal assessment marks shall be shown separately in the marks card. A candidate who has rejected the result or who, having failed, takes the examination again or who has appeared for improvement shall retain the internal assessment marks already obtained.

A candidate who fails in any of the semester examinations may be permitted to take the examinations again at a subsequent appearance as per the syllabus and scheme of examination in vogue at the time the candidate took the examination for the first time. This facility shall be limited to the following two years.

16. POWER TO REMOVE DIFFICULTIES

- i) If any difficulty arises in giving effect to the provisions of these regulations, the Vice-Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.
- ii) Every order made under this rule shall be subject to ratification by the Appropriate University Authorities.



Click I

OF COMMERCE) - COURSE MATRIX

M.Com (MASTER OF COMMERCE)

	ograde to s and Expanded Features	Instruction	Duration		Marks		Cuadita
•		Hrs/Week	of Exam (Hrs)	IA	Exam	Total	Credits
1.1	Monetary System	4	3	30	70	100	4
1.2	International Business	4	3	30	70	100	4
1.3	Macro Economics for Business Decisions	4	3	30	70	100	4
1.4	Information Systems and Computers	4	3	30	70	100	4
1.5	Advanced Financial Management	4	3	30	70	100	4
1.6	Human Resource Management	4	3	30	70	100	4
1.7	SOFT CORE Communication Skills	3	3	30	70	100	2
	I SEMESTER	TOTAL OF CRI	EDITS				26

II SEMESTER M.Com (MASTER OF COMMERCE)

Daman	Cubicata	Instruction	Duration		Credits			
Paper	Subjects	Hrs/Week	of Exam (Hrs)	IA	Exam	Total	Credits	
2.1	Indian Banking	4	3	30	70	100	4	
2.2	Risk Management	4	3	30	70	100	4	
2.3	Advanced E ó Commerce & Mobile Commerce	4	3	30	70	100	4	
2.4	Business Research Methods	4	3	30	70	100	4	
2.5	Operations Research & Quantitative Techniques	4	3	30	70	100	4	
2.6	Business Marketing	4	3	30	70	100	4	
2.7	SOFT CORE Micro Finance	3	3	30	70	100	2	
	II SEMESTER TOTAL OF CREDITS							

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M.Com (MASTER OF COMMERCE)
– I ACCOUNTING & TAXATION

Jomp	PDF Complete.	Instruction	Duration		Marks		Credits	
	grade to	Hrs/Week	of Exam (Hrs)	IA	Exam	Total	Creatts	
ed Pages	Business Eurics & Corporate Governance	4	3	30	70	100	4	
3.2	Corporate Financial Reporting	4	3	30	70	100	4	
3.3	Accounting for Managerial Decision	4	3	30	70	100	4	
3.4	Strategic Cost Management ó I	4	3	30	70	100	4	
3.5	Direct Taxes & Planning	4	3	30	70	100	4	
3.6	Open Elective	4	3	30	70	100	4	
	III SEMESTER T	OTAL OF CR	EDITS				24	Ī

III SEMESTER M.Com (MASTER OF COMMERCE) ELECTIVE – II FINANCE AND BANKING

n		Instruction	Duration		Marks		G 114
Paper	Subjects	Hrs/Week	of Exam (Hrs)	IA	Exam	Total	Credits
3.1	Common Paper Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Financial Markets	4	3	30	70	100	4
3.3	Financial Services	4	3	30	70	100	4
3.4	Security Analysis	4	3	30	70	100	4
3.5	Portfolio Management	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
	III SEMESTER TO	OTAL OF CR	EDITS				24

III SEMESTER M.Com (MASTER OF COMMERCE) ELECTIVE – III SYSTEM MANAGEMENT

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			
				IA	Exam	Total	Credits
2.1	Common Paper	4	2	20	70	100	4
3.1	Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Relational Database Management Systems	4	3	30	70	100	4
3.3	Data Communications and Networking	4	3	30	70	100	4
3.4	Enterprise Resource Planning	4	3	30	70	100	4
3.5	Systems Analysis and Design	4	3	30	70	100	4
3.6	Open Elective	4	3	30	70	100	4
III SEMESTER TOTAL OF CREDITS							

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(Comp	lete	Thank you for using		Instruction	Duration		Marks		
		grade to	PDF Complete.		Hrs/Week	of Exam (Hrs)	IA	Exam	Total	Credits
ite	d Pages	and Expa	nded Features		4	3	30	70	100	4
	4.2	Corporate reporting practices and Ind AS			4	3	30	70	100	4
	4.3	Strategic Cost Management - II			4	3	30	70	100	4
	4.4	Goods and Service Taxes			4	3	30	70	100	4
	4.5	Dissertati	i <mark>on</mark>		8		Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS								24		

IV SEMESTER M.Com (MASTER OF COMMERCE) ELECTIVE – II FINANCE AND BANKING

	Subjects	Instruction	Duration of Exam (Hrs)	Marks			
Paper		Hrs/Week		IA	Exam	Total	Credits
4.1	Common Paper Commodity Markets	4	3	30	70	100	4
4.2	Forex Management	4	3	30	70	100	4
4.3	International Financial Institutions & Markets	4	3	30	70	100	4
4.4	Banking Operations and Management	4	3	30	70	100	4
4.5	Dissertation	8		Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS							

IV SEMESTER M.Com (MASTER OF COMMERCE) ELECTIVE – III SYSTEM MANAGEMENT

Paper	Subjects	Instruction Hrs/Week	Duration of Exam (Hrs)	Marks			
				IA	Exam	Total	Credits
4.1	Common Paper Commodity Markets	4	3	30	70	100	4
4.2	Artificial Intelligence	4	3	30	70	100	4
4.3	Distributed Computing and Applications	4	3	30	70	100	4
4.4	Data Mining and Data Warehousing	4	3	30	70	100	4
4.5	Dissertation	8	3	Viva - Voce 50	150	200	8
IV SEMESTER TOTAL OF CREDITS							

OPEN ELECTIVE

- a. Income Tax
- b. Finance and Banking

ELECTIVE PAPERS:

- I. ACCOUNTING & TAXATION
- II. FINANCE & BANKING
- **III.SYSTEM MANAGEMENT**

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OUNTING AND TAXATION

ICS AND CORPORATE GOVERNANCE

cious about ethical values in real life and in business.

2. 10 make students internalize ethical values and practices.

Module - 1:

Ethics in Business: Definition of business ethics ó A model of ethics; ethical performance in business; managerial values and attitudes; ethical congruence; managerial philosophy; types of ethics; code of ethics; importance of ethics in business.

Module – 2

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Ethics in Finance: Unethical financial practices ó creative accounting- hostile takeoverstax evasion- corporate crimes.

Module – 4

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Ethics and Information Technology: Ethical issues relating to computer applications; security threats ó computer crime- computer viruses- software piracy- hacking ó computer crime prevention ó ethical dilemmas and considerations.

Module – 5

Concept of corporate governance ó importance - Corporate governance and agency theory. Benefits of good corporate governance - present scenario in India.

Reforming Board of Directors, Birla committee, Naresh Chandra Committee, Narayana Murthy committee, Corporate Governance code future scenario. Changes is corporate governance issues as per new Companies Act 2013

- 1. S.K. Chakraborthy: Foundations of Managerial Work Contributions from Indian Thought, Himalaya Publishing House, Bombay.
- 2. V.S. Mahesh: *Thresholds of Motivation*, Tata McGraw Hill.
- 3. Pradip N. Khandwalla: Organisational Designs for Excellence, Tata McGraw Hill.
- 4. Theophane A. Mathias: *Corporate Ethics*, (Ed) Allied. Publishers.
- 5. Beanchamp Tom L: Ethical Theory and Business, Prentice Hall.
- 6. Behram Kack N: Essays on Ethics in Business and the Professions, Prentice Hall.
- 7. Blanchard, Kenneth: The Power of Ethical Management, EM of Co.
- 8. Borchert, Donald M: Exploring Ethics, Macmillan Pub. Co.
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- 10. Brady, F. Neil: Ethical Managing, Macmillan Pub. Co.



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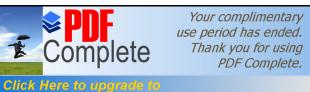
at Work, Wadsworth Publishing Co.

Contemporary Issues in Business Ethics, Wadsworth

r uonsiniig Company.

- 15. Donaldson, Thomas: Ethical Issues in Business, Prentice Hall.
- 16. Donaldson, Thomas: *The Ethics of International Business*, Oxford University Press.
- 17. Ferreth oc: Business Ethics, Prentice Hall.
- 18. Garrelt, John C: Business Ethics, Prentice Hall.
- 19. Hoffman, W. Michael: Business Ethics, Prentice Hall.
- 20. Gupta. L.C. Corporate Management and Accounability.
- 21. Mc.Millan Institution for FM and Research Chennai.

RATE FINANCIAL REPORTING



e to analyze financial statements and to familiarize with ne area of financial reporting.

2. 10 gam aomy to sorve Inancial reporting and valuation problems.

Module 1: Accounting Standards: Accounting Standards, Interpretations and guidance notes on various aspects issued by the ICAI and their applications. Overview of International Accounting Standards (IAS);

Module 2: International Financial Reporting Standards (IFRS): Interpretations by International Financial Reporting Committee (IFRIC), Significance vis-à-vis Indian Accounting Standards. US GAAP, Application of IFRS and US GAAP.

Module 3: Corporate Financial Reporting: Issues and problems with special reference to published financial statements; **Sustainability Reporting:** Concept of Triple Bottom Line Reporting, Global Reporting Initiative (GRI), and International Federation of Accountants (IFAC)

Module 4:Accounting and Reporting of Financial Instruments: Meaning, recognition, de-recognition and offset, compound financial instruments, measurement of financial instruments, Hedge accounting, Disclosures; Financial Reporting by Nonbanking finance companies, Merchant Bankers, stock and commodity market intermediaries.

Module 5: Developments in Financial Reporting: Value Added Statement, Economic Value Added, Market Value Added, Shareholdersø Value added, Human Resource Reporting, and Inflation Accounting.

References:

- 1. IFRS for India, Dr.A.L.Saini, Snow white publications
- 2. Roadmap to IFRS and Indian Accounting Standards by CA Shibarama Tripathy
- 3. IFRS explained ó A guide to International financial reporting standards by BPP learning Media
- 4. IFRS for finance executives by Ghosh T P, taxman allied services private limited
- 5. IFRS concepts and applications by Kamal Garg, Bharath law house private limited
- 6. IFRS: A Quick Reference Guide by Robert J. Kirk, Elsevier Ltd.
- 7. First lesson to International Financial ReportingStandards beginners guide by MP Vijay Kumar, prime knowledge services.
- 8. A studentøs guide to international financial reporting standards by Clare Finch, Kalpan Publishing.

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TING FOR MANAGERIAL DECISIONS

ost accounting theory in management decision making

woude - 1. manageriai Decision making

Decision making process, Database for decision-making, Cost-based Decision-making.

Module – 2: Cost behavior and profit analysis:

Marginal Costing and Short term Decisions and pricing, Application of short term decision models: key factors, diversification of products, profit planning, Product mix decision, contribution analysis, make or buy decisions, discontinuation of product, diversification of product line, accept or reject special order, break-even analysis, cost-volume profit analysis.

Module – 3: Responsibility accounting and divisional performance measurement:

Responsibility accounting: meaning and definition, process in implementation, responsibility reporting, centres for control, benefits of responsibility accounting, difficulties in the implementation of responsibility accounting, methods for measuring divisional performance, divisional performance reporting.

Module – 4: budgetary control and variance analysis

Steps in Preparation of master budget, zero based budgeting (ZBB): meaning, requisites for implementation, features, ZBB vs Traditional budgeting, benefits, criticism. Planning, programming budgeting system (PPBS): meaning, definition, PPBS vs conventional budgeting, stages in PPBS, advantages. Performance budgeting: meaning, reasons of performance budget, requisites, and steps in implementation. Monitoring results and control variances: planning and operational variances, interpretation of variances. (Theory only).

Module – 5: Uniform Costing and inter firm comparison

Meaning, objectives, requisites for the installation of Uniform costing, uniform costing manual, advantages and disadvantages. Inter-firm comparison: meaning, requisites, Procedure involved under inter-firm comparison, advantages and disadvantages.

- 1. Vashist and Saxena, *Advanced Cost and Management Accounting*, Sultan Chand and sons.
- 2. Jain and Narang, Advanced Cost Accounting, Kalyani.
- 3. Arun Prasad Roy Chowdhury, etal; *Cost and Management Accountancy*, New Central Book Agency.
- 4. Horngren, Cost Accounting; A Managerial Emphasis, PHI.
- 5. Prasad. N.K, *Principles and Practice of Cost Accounting*, Book Syndicate.
- 6. ICWA Publications on application of costing principles in different industries.
- 7. Jawaharlal, Cost Accounting, TMH
- 8. Khan and Jain, Theory and Problem of Management and Cost Accouting, TMH.
- 9. Nigam and Sharma, Cost Analysis and Control Management Approach, HPH.
- 10. ICWA, Calcutta, Advanced Cost and Management Accountancy Methods, Techniques and Applications.
- 11. Mukherjee. S and Roy Chowdhury, *Advanced Cost and Management Accountancy*, New Central Book Agency, Calcutta.



EGIC COST MANAGEMENT – I

ts to the internal environment of business and to enable ting to cost.

elements, cost control and cost reduction: meaning, process, methods and techniques of cost control and cost reduction, cost management: areas of cost management, difference between cost management and cost accounting, role of cost accounting in strategic planning and management control.

Module – 2: Strategic Cost and Performance Evaluation:

Integration of strategic cost management with performance evaluation, Strategic cost management issues in different elements of cost; material, labour and overheads; product design, value analysis and value engineering, strategic analysis of cost, business process re-engineering, benchmarking.

Module – 3: Activity Based Costing System:

Introduction to traditional methods of overhead absorption, problems of overhead absorption system under Traditional System, introduction to ABC, Kaplan and Coopers approach to ABC, cost drivers and cost activities, allocation of overheads under ABC, Characteristics of ABC, benefits from adaptation of ABC System, problems on comparison between traditional system and ABC system.

Module – 4: Life Cycle Costing:

Meaning of LCC, factors affecting Life cycle costing, phases in product life cycle, characteristics, product life cycle and cost control. Experience curve in product life cycle costing. Project life cycle costing: Meaning, categories of project life cycle costs, optimization of project life cycle costs.

Module – 5: Just in Time and Kaizen Costing

JIT ó features, methodology in implementation of JIT, Benefits of JIT. Kaizen Costing: concept, procedure for implementation, evaluation, benefits of Kaizen costing. Lean Cost Management: Meaning, definition, factors, applications, procedure to implementation, comparison with traditional management system, Modern production management techniques, benefits and drawbacks of Lean Cost Management.

- 1. Ravi. M. Kishore, Cost Management, Taxman, Allied Services (p) Ltd.,
- 2. S.K.R. Paul, Management Accounting, New Central Book Agency Private Ltd., Calcutta.
- 3. Charles T. Horngren, George Foster, Srikant M. Data, *Cost Accounting: A Managerial Emphasis*, Prentice Hall of India, New Delhi.
- 4. Roger Cowe, Hand Book of Management Accounting, A Grower Handbook.
- 5. S. Mukherjee & A.P. Roychowdhury, *Advanced Cost and Management Accountancy*, New Central Book Agency, Calcutta.
- 6. Anthony R.N, Management Accounting Principles, Grawin Publishing.
- 7. Batty J, Mc Donald & Evans, Management Accountancy, London.
- 8. Bierman H & Drabin A.R, *An Introduction Managerial Accounting*, McMillan Company, New York.
- 9. Broad H.W & Carmichael K.S, A Guide to Management Accounting, HFL (Pub) Ltd., London.
- 10. Brown & Haward, Mac Donald, Evans, Principles of Management Accountancy, London.
- 11. De Pauls, Management Accounting in Practice, F.C. Europe Pub. Ltd., London.
- 12. Keith Ward, Strategic Management Accounting, Butterworth Heirmann Pub.
- 13. John K. Shank, Cases in Cost Management: A Strategic Emphasis, South-Western Publishing, Thomson Learning.

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DIRECT TAX PLANNING

ect tax and apply the laws to business decisions.

Finance Act, tax planning and its methods, advance tax rulings.

Module – 2:

Sailent features of company taxation, scheme of taxing business income of companies, business deductions/allowances, disallowances and depreciation.

Module – 3:

Computation of taxable income of companies set off and carry forward of losses, deductions under section 80G/801A-801B-801C

Module – 4:

Tax planning with respect to amalgamation and mergers, multinational companies, double taxation treaties, joint ventures and foreign collaborations, tax consideration in make or buy, own or lease, retain or replace, Transfer pricing.

Module – 5:

Procedure for assessment, deduction of tax at source, advance payment of tax, refunds, appeals and revision.

Module – 6:

Wealth tax for companies, charging section, exempted wealth computation of net wealth, wealth tax planning.

- 1. Vinod K. Singhania, *Direct Tax Law and Practice*, Taxman.
- 2. AgrarwalP.K, Tax Planning for Companies, Hind Law Publishers, New DELHI.
- 3. Dr. H.C. Mehrotra and Dr. S.P. Goyal, *Income Tax Law and Practices*, Sahitya Bhavan, Agra.
- 4. Sukumar Bhattachary, Tax Planning in India.
- 5. Sharat Bargava: *Direct Taxes*.
- 6. B.B. Lal & N. Vashist ó Direct Taxes, Pearson ó New Delhi.
- 7. Girish Ahuja and Dr. Ravigupta ó *Direct Taxes Law and practices*-Bharaths.
- 8. Dr. Manohar ó Direct Taxes, Snow white.

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FINANCE AND BANKING

ICS AND CORPORATE GOVERNANCE

cious about ethical values in real life and in business.

2. To make students internallize ethical values and practices.

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- 2. V.S. Mahesh: Thresholds of Motivation, Tata McGraw Hill.
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hical Dilemmas in the Modern Corporation, Prentice

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- 15. Donaldson, Thomas: Ethical Issues in Business, Prentice Hall.
- 16. Donaldson, Thomas: The Ethics of International Business, Oxford University
- 17. Ferreth oc: Business Ethics, Prentice Hall.
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- 19. Hoffman, W. Michael: Business Ethics, Prentice Hall.
- 20. Gupta. L.C. Corporate Management and Accounability.
- 21. Mc.Millan Institution for FM and Research Chennai.

2 FINANCIAL MARKETS

the working of financial markets in India and abroad.

viouuie – i

Security markets ó Primary and Secondary market, Primary market ó Its role and functions, Methods of selling securities in Primary market bought out deals and private placements trading mechanism ó Screen based trading, insider trading

Module – 2

Public Issue Management, prospectus, regulation and certification, pricing of new issues, guidelines, functions of underwriters, merchant bankers, issue managers, registrars to issue

Module – 3

Organization and functioning of stock exchange in India, operations of stock markets, listing requirements, regulation and control of stock markets, National Stock Exchange (NSE) and OTCEI, investor protection and SEBI guidelines.

Module - 4

International financial environment, raising of finance in international markets, Euro issues, GDR¢s and ADR¢s Guidelines for raising funds in international markets through various instruments.

Working of International Stock exchanges with respect to their size 6 listing requirements 6 membership 6 clearing and settlement of New York Stock Exchange, NASDAQ, London Stock Exchange, Tokyo Stock Exchange, Luxemburg Stock exchange, German and France Stock Exchanges.

- 1. Dalton, John M: How the stock markets works, Practice Hall, Delhi.
- 2. Machiraju H R: Working of Stock Exchanges in India, Wiley Eastern Ltd, New Delhi.
- 3. Gupta L. C.: Stock Exchange Trading in India Society for Market Research and Development, Delhi.
- 4. Raghunatham V: Stock Exchange and Investments, Tata, McGrawHill, New Delhi
- 5. Gorden & Nataraj: Financial Markets and Services, Himalaya Publising House
- 6. Avadhani : Investment and securities markets in India, Himalaya Publising
- 7. Khan M Y: Indian Financial System, Tata McGraw Hill, New Delhi.
- 8. Giddy I H: Global Financial Markets, AITBS New-Delhi.
- 9. Preethi Singh: Investment Management, Himalaya Publishing house

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3 FINANCIAL SERVICES

ide variety of emerging financial services.

rmanetar services and reconomic environment, Fund based and Non-fund based activities ó Modern activities ó Financial innovations ó New financial instruments ó challenges to the sector.

Module - 2

Financial, Legal and tax aspects of leasing lease evaluation types of leases, lease structuring and funding of lease, import leasing and cross border leasing, evaluation of hire purchase agreements.

Module - 3

Factoring, features, factoring V/S bill discounting, recent developments in Indian context, consumer finance, credit financing schemes for consumer durables, credit cards & other cards, venture capital financing, guidelines and evaluation of new project ideas.

Module – 4

Credit rating concept, scope and need, features, Credit rating process and agencies, credit rating symbols, Rating frame work, Factors. Advantages and limitations of credit rating.

Mutual funds - meaning and definition, types, determination of NAV, Advantages and disadvantages of mutual funds.

Module – 5:

Securitisation Definition and concept, players involved, Instruments of securitisation, process of securitisation.

Depository Services: meaning and need, dematerialization, process of dematerialization and rematerialization of Derivatives.

- 1. Gorden & Nataraj: Financial Markets and Services, Himalaya Publising House
- 2. Avadhani : Investment and securities markets in India, Himalaya Publising House
- 3. Khan M Y: Indian Financial System, Tata McGraw Hill, New Delhi.
- 4. Giddy I H: Global Financial Markets, AITBS New-Delhi.
- 5. Preethi Singh: Investment Management, Himalaya Publishing house
- 6. Guruswamy, S:Financial services, Vijay Nicole imprints, Chennai.
- 7. P.K. Sahoo, *Financial Services and markets*, Himalaya
- 8. I.M. Pondey *Venture Capital; The Indian Experince* Prentice Hall, New Delhi.
- 9. J.K. Dietrich, Financial Services and Financial Institution, Prentice Hall.
- 10. Sashi. K. Gupta & Nisha Aggarwal, *Financial Services*, Kalyni Publication.

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SECURITIES ANALYSIS

in analyzing various types of securities

Investment management, nature and scope, investment avenues, types of financial assets and real assets, Security return and risk óSystematic and unsystematic risk ó sources of risk, Measurement of risk and return, sources of investment information.

Module – 2

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Risk and return analysis, Definitions of risk. Types of Risk, minimizing risk explosive, Risk measurement (Standard Deviation, Beta, covariance, correlation coefficient) review problems.

Module -3

Fixed income securities ó bonds, preference shares-sources of risk, valuation, duration of bonds-theory of interest rates óyield curve. Bond innovations and their valuation.

Module -4

Analysis of variable income securities, fundamental analysis ó analysis of economy, industry analysis, company analysis ó financial and non-financial. Equity valuation models. Options, futures, forwards, warrants, and their valuations.

Module - 5

Technical analysis ó Dowøs theory, charts ó Efficient market hypothesis and its implications, Tax aspects of investment, Securities Trading Procedure. A Critical survey of software packages for security analysis.

- Donald E. Fischer and Ronald J. Jordan: Security Analysis and Portfolio Management, Pearson Ed
- 2. Stanely S.C. Huang Maury Stall: *Investment Analysis and Management*, Allyn and Bacon Inco., Massachustes
- 3. Timoty E. Jahanson: Investment Principles, Prentice Hall, New Jersy.
- 4. Jerome B. cohen and Edward D. Zinbarg etal: Investment Analysis and Portfolio Management, Ricchard D., Irwin Inc., Illinois.
- 5. J. C. Fancis: Investment Analysis and Management
- Haim Levy and Marshall Sarnat: Portfolio and Investment Selection Theory and practice, prentice hall International New Jersy.
- 7. Graham B. D. Dodd and S. Bolts: Securities Analysis, McGraw Hill, Newyork
- 8. Bombay Stock Exchange Directory.
- 9. Pandyan Puneethavarty, Securities Analysis and Portfolio Management, Vikas Pub. House.
- 10. Fuller & Farrel, Modern Investments and Security Analysis, McGraw Hill International.
- 11. Strong R.A, Portfolio Management Handbook. South western college Publishing.
- 12. A. Brahmiah & P. Subba Rao, Financial Futures and Options, HPH.
- 13. Singh Preeti, Investment Management, HPH
- 14. Alexander Fundamental of Investments, Pearson Ed.
- 15. Hangen: Modern Investment theory. Pearson Ed.
- 16. Kahn: Technical Analysis ó Plain and sample Pearson Ed.
- 17. Ranganthan: Investment Analysis and Port folio Management.
- 18. Chandra Prasanna: Managing Investment ó Tata Mc Gram Hill.
- 19. Alexander, shampe and Bailey ó Fundamentals of Investments Prentice Hall of India
- 20. Newyork Institute of Finance ó How the Bond Market work ó PHI.
- 21. Mayo ó Investment Thomason hearning
- 22. Strong ó Practical investment

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RTFOLIO MANAGEMENT

udents to design and revise a portfolio of securities.

ment, portfolio analysis, why portfolios? Portfolio objectives, portfolio management process, selection of securities.

Module – 2

Portfolio theory, Markowitz Model, Sharpeøs single index model. Efficient frontier with. Lending and borrowing, optimal portfolio capital Asset pricing model. Arbitrage pricing theory two factor and multifactor models.

Module – 3

Bond Portfolio management strategies, Equity portfolio management strategies, strategies using derivaties, hedging. Portfolio revision ó rebalancing plans, portfolio evaluation, Sharpeøs index, Treynorøs measure and Jensonøs measure.

Module - 4

Efficient Market Hypothesis, Random walk theory. Forms of efficient market theories. Credit Derivatives, (Credit Default Swap).

Module - 5

Mutual funds, Investor life cycle, Personal investment, Personal Finance, Portfolio Management of funds in banks, insurance companies, pension funds, International investing, international funds management, emerging opportunities.

A brief survey of software packages for Portfolio management.

- 1. Donald E. Fischer and Ronald J. Jordan: Security Analysis and Portfolio Management, Pearson Ed.
- 2. Stanely S.C. Huang Maury Stall: *Investment Analysis and Management*, Allyn and Bacon Inco., Massachustes
- 3. Timoty E. Jahanson: Investment Principles, Prentice Hall, New Jersy.
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SYSTEM MANAGEMENT

ICS AND CORPORATE GOVERNANCE

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TO make students internalize ethical values and practices.

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- 2. V.S. Mahesh: *Thresholds of Motivation*, Tata McGraw Hill.
- 3. Pradip N. Khandwalla: Organisational Designs for Excellence, Tata McGraw
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- 6. Behram Kack N: Essays on Ethics in Business and the Professions, Prentice Hall.
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- 8. Borchert, Donald M: Exploring Ethics, Macmillan Pub. Co.
- 9. Bowie, Norman E: Business Ethics, Prentice Hall.
- 10. Brady, F. Neil: Ethical Managing, Macmillan Pub. Co.



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- 17. Ferreth oc: Business Ethics, Prentice Hall.
- 18. Garrelt, John C: Business Ethics, Prentice Hall.
- 19. Hoffman, W. Michael: Business Ethics, Prentice Hall.
- 20. Gupta. L.C. Corporate Management and Accounability.
- 21. Mc.Millan Institution for FM and Research Chennai.



ABASE MANAGEMENT SYSTEMS (RDBMS)

ts about different Databases and Query Language. practical knowledge and reporting skills.

Introduction to databases- Introduction ó Application development without databases-Advantages- Concepts and history of DBMS- commercial databases.

Data base design- Feasibility study- designing system ó class diagrams- data typeselements.

Unit-II

Data normalization- Introduction ó Sample database- first ó second ó third Normal Forms Beyond third normal form- Data rules and integrity ó effects of Business rules-Converting class clan diagram to normalized tables- data dictionary.

Unit-III

Queries and sub queries- Data queries- basics- computation- group by ó multiple tablessub queries- joints- SQL testing queries.

Unit-IV

SQL FORMS - Application development using SQL FORMS organization of SQL FORMS- Function Key- Screen Painter, default form designing a complete form- trigger and their types trigger command syntax- Use of macro generating a form, running a form, user exits.

Unit-V

SQL Report writer- Types of reports, entering the query formulating the report, calculated filed, group settings modifying tent settings, previewing a report running a report, SOL LOADER, Database Administrator

- 1. James Perrya T and Joseph, G. Lateer: Understanding Oracle, BP
- 2. Abbey and Corey, Oracle: A Beginners Guide, Tata MC Graw Hill
- 3.Gerald V. Post: Data Base Management Systems- Designing and Business Application, Tata Mc Graw Hill.
- 4.McFadden: Database Management System, Addison Wesly.

MUNICATIONS AND NETWORKING

unication and its fundamentals to students ent with the basic taxonomy and terminology of the a.

Unit-I: Introduction

Data Communications ó Components - Data Representations - Data Flow - Networks - Distributed Processing, Network Criteria - Physical Structures - New work models - Categories of Networks - Interconnection of Networks - The Internet-Protocol and Standards.

Unit-II:

Network Models - Layered tasks - OSI model- Layered architecture-Peer-to peer processes- encapsulation layers in the OSI model- TCP/IP Protocol suite- Addressing

Unit-III:

Data and Signals - Analog and Digital - Periodic Analog Signals - Digital Signals - Transmission Impairment - Data Rate Limits ó Performance.

Unit-IV:

Digital Transmission - Digital ó to Digital Conversion ó Analog - to Digital Connection - Transmission modes Analog Transmission- Digital to Analog Conversion - Analog-to-Analog conversion.

Unit-V:

Bandwidth Utilization: Multiplexing and Spreading ó Multiplexing-Spread Spectrum-Guided Media- Unguided media- Wireless- Radio waves- Micro Waves- Infra red.

- 1. Data Communication and Networking by Behraaz A Forouzan (Fourth edition) McGraw Hill Companies
- 2. Communication Networks Principles and Practice by Sumit Kasua/ Nishil Narang Sumita Narang.
- 3. Tomasi ó Introduction to Data Communications & Networking, Pearson Education.
- 4. William A Shay: Understanding Data Communications & Networks, Vikas Publishing.
- 5. William Stallings: Data and Computer Communications, Pearson Education.



RISE RESOURCE PLANNING (ERP)

ate business processes and systems.

ually successful by learning the techniques of ERP

.

ERP overview- Evolution of ERP-EP Technologies-ERP Technologies- ERP As Decision support system- ERP Architecture Consideration for ERP implementation

Unit-II

Introduction to ERP: ERP Vs MRP, Evolution- Growth- Benefits and limitations of ERP- Phases of ERP- Sales, Marketing, Distribution Manufacturing- Finance- Personnel-Purchase and Inventory- Planning & Control

Unit-III

ERP- Related Techniques Business Process Reengineering (BPR), MIS-DSS- EIS- Data warehousing- Data Mining- Online Analytical Processing (O&AP), Supply- Chain Management CAD/CAM-, Materials Requirement Planning, Bills of Materials, Manufacturing Resource Planning, Distribution Requirement Planning, JIT & Kanban - Make to order- make to stock-Assemble to order, engineeróto-order.

Unit-IV

ERP Models-Finance- Plant and Maintenance- Quality Management-

Materials Management- Benefits of ERP.

Unit-V

ERP Implementation life cycle- pre-evaluation screening, Package Evaluation- Project Planning Phase- GAP Analysis- Reengineering, Configuration- Team Training- Testing & Going Live

- 1. S. Sadgopan: ERP A Managerial Perspetive, Tata McGraw Hill.
- 2. Alexis leon: Enterprise Resource Planning, Tata Mc Graw Hill.
- 3. Vinod Kumar Kard and Arid NK Venkaita Krishtean: E.R.P Concepts and Practice, Prentice Hall of India.
- 4. Luvai F Motiwallo, Jeff Thompson Enterprise Systems for Management ó Pearson Education, 2009
- 5. Jyotindram, Enterprise Resource Planning, Himalaya Publishing House.



TEMS ANALYSIS AND DESIGN

cycle models and its contribution to system analysis and

ucsigii.

Unit-I

Assuming the role of the systems analyst- Types of systems ó Integrating Technologies for system- Need for systems Analysis and Design- Role of the system Analyst- System Development life cycle- using case tools-Upper and Lower case- Object oriented systems- Analysis and Design-Agile approach and other alternative methodologies.

Unit-II

Understanding organizational style and its impact on information systems- organizations as systems ó Depicting systems graphically ó Use cage modeling ó Levels of Management ó Organizational culture

Unit-III

Project Management ó Project initiation- Determining Feasibility ó Activity planning and control- Computer-based project Scheduling- Function point Analysis- Managing Analysis and Design activities- Agile Development.

Unit-IV

Information Gathering-Interactive methods-Interviewing-Joint Application Design-Using Questionnaires-Sampling-Investigation-Observing a Decision making behavior

Unit V

Agile modeling and prototyping- prototyping ó Developing prototype ó userøs Role in prototyping Rapid application development ó Agile modeling comparing agile modeling and structured methods

- 1. System Analysis and Design by Kendall Kendall (seventh edition)
- 2. Analysis & Design of information systems by James A. Sen (second edition)
- 3. Sodzinger Jackson Burd: Systems Analysis & Design.



OUNTING AND TAXATION

COMMODITY MARKETS

world of commodity markets financial instruments used in commodity markets.

Module - I Commodity Markets and Exchanges:

Growth of Global and Domestic Commodities Derivatives Markets, Agricultural Commodities Market and Non-Agricultural Commodities Markets

Commodity Exchanges: Exchanges around the World and its Importance, Commodity Exchanges in India. National Exchanges and Regional Exchanges, platform ó Structure, Exchange memebership, Capital requirements, commodities traded on National exchanges, instruments available for trading and Electronic Spot Exchanges.

Module - II Quality Assurance

Quality Assurance, Concepts of Quality in Commodities, Methods of Quality Assurance GRanding and Standardization: Meaning of grading and Standardization, purpose of grading, advantages of grading, inspection and quality control, Indian standards.

Module – III Commodity Derivatives:

Commodity Derivatives: Evolution of Commodity, Derivatives, Evolution of Commodity, Derivatives in India, Types of Derivatives, Other Classifications of Derivatives, Pricing Derivatives, Derivative Markets and Participants, Economic Importance of Commodity Derivatives Markets.

Module – IV Warehousing Trading and Settlement:

Warehousing and Warehouse Receipts, Storage, practice s in India, Risks in Storage, Structures, Essentials of storage structures, cost of storage/carry, returns of storage cost, warehousing, types of warehouses, Central warehousing corporation(CWC) FCI, functioning, growth, capacity and utilization.

Trading on Commodity Exchanges: the Exchange platform, Exchange Membership, Commodity Brokerage, trading systems, participants in Commodity Markets, Role of speculators, Trading mechanism ó Margin Trading, Mark to Market, Conflict Management; Arbitration and International Legal provisions, Market Positions, Order Types, Access to Commodity Exchanges, Volume and Open Interest.

Clearing and Settlement on Commodity Exchanges, Clearing House Operations and Risk Management, procedures, Delivery related issues like delivery centers, Deliverable varieties, Issues related to monitoring and surveillance by exchanges and regulator, Margining Method and the settlement process.

Module – V Regulatory Framework:

FCR Act 1952, FMC and Regulatory structure of commodities Derivatives markets in India (Objective, Functions, Power and responsibilities, Scope of Regulation), Essential Commodities Act and role of central and state Governments, Intermediaries, Investor Grievances and arbitration, Commodities Board in India ó Coffee Board of India, Tea Board of India, Spice Board of India, Rubber Board of India, Tobacco Board of India.

Books for Reference:

- 1. Location in Space: A Theoretical Approach to Economic Geography, Lloyd and peter.
- 2. Land, Work and Resource: An Introduction to Economic Geography, Patterson J.H.
- 3. Annals of an Abiding Liberal, Galbraith.
- 4. Economic Geography, Truman A. Harsshron and John W. Alexander.
- 5. World Resouces and Trade, Khanna and Gupta.
- 6. World Resources, Zimmerman.
- 7. Economic Geography ó A Resouces Approach ó Gun and Chatterji.
- CD of IIPM Commodity Futures National Seminars.
- 9. Economic Geography ó Prentice Hall of India
- 10. Economic Times & Business Line (Daily)
- 11. Business India (Magazine).

Web sites of Commodity exchanges like CBOT, KBOT, LIFFE, SIMEX, TOCOM, NCDEX, MCXM NMCE, NBOT.

REPORTING PRACTICES AND IND AS



nt developments in the area of financial reporting and to cial reporting problems in special cases.

Module 1: Evolution and Convergence of International Financial Reporting Standards (IFRS) in India: GAAP in India and Hierarchy of GAAP in India, International Financial Reporting Standards, First time adoption (IFRS 1) ó Convergence with IFRS ó Stage-wise Approach, Advantages of converting to IFRS, Significant Criticisms of IFRS, Key Business issues that will need to be addressed for successful implementation of IFRS, challenges and opportunities faced by India in the implementation of IFRS - An overview of IND ASs: list of converged Indian Accounting Standards notified by Ministry of Corporate Affairs (MCA) - Comparison of IFRS with Ind AS.

<u>Module 2</u>: Accounting and Reporting for Business Combinations (As per Ind AS): Relevant Terms, Types of merger, methods of accounting, treatment of Goodwill arising on merger, purchase consideration and settlement; Accounting in books of vendor/transferor company, Accounting for investment in subsidiary, Accounting for holding companies (including chain holdings, multiple holdings), Corporate Financial Restructuring (including intercompany holdings), Reconstruction schemes, De-merger.

<u>Module 3:</u> Group Financial Statements/ Consolidated Financial Statements: Consolidation of foreign-Holding company, Subsidiary Company and Associate Company including multiple subsidiaries, Concept of a group, Purposes of consolidated financial statements, consolidation procedures-Minority interest, Goodwill, Treatment pre-acquisition profit and concept of Fair value at the time of acquisition,

<u>Module 4:</u> Consolidated Income Statements: balance Sheet and cash Flow Statements for Group companies, Impact of group financial statements at the point of acquisition, Treatment of investment in associates in consolidated financial statements, compare and contrast acquisition and equity methods of accounting, Treatment of investment in Joint ventures in consolidated financial statements

<u>Module 5:</u> Accounting for Industry based standards: Agriculture óInsurance contracts-Exploration for and Evaluation of Mineral Resources-Regulatory Deferral Accounts.

References:

- 1. IFRS for India, Dr.A.L.Saini, Snow white publications
- 2. Roadmap to IFRS and Indian Accounting Standards by CA Shibarama Tripathy
- 3. IFRS explained ó A guide to International financial reporting standards by BPP learning Media
- 4. IFRS for finance executives by Ghosh T P,taxman allied services private limited
- 5. IFRS concepts and applications by Kamal Garg, Bharath law house private limited
- 6. IFRS: A Quick Reference Guide by Robert J. Kirk, Elsevier Ltd.
- 7. First lesson to International Financial ReportingStandards beginners guide by MP Vijay Kumar, prime knowledge services.
- 8. A studentøs guide to international financial reporting standards by Clare Finch, Kalpan Publishing.



EGIC COST MANAGEMENT – II

ts to the external environment of business and to enable ing to cost and pricing.

in Decision Making

cost pricing, pricing for target rate of return, added value method of pricing, differential cost pricing going rate pricing, opportunity cost pricing, standard cost pricing, customary pricing, pricing strategy for Export oriented products, methods of export pricing, pricing strategies for new products, management accountant role in product pricing.

Module -2: Transfer Pricing

Transfer Pricing 6 meaning, necessity, Objectives, applications, Methods (Cost Based, Market Price Based and Negotiated Pricing), Advantages and Disadvantages, Criteria for setting Transfer Prices, Guiding Principles in the fixation of transfer prices, Transfer Price in different situations. International transfer pricing: meaning, factors affecting international transfer pricing.

Module 3: Learning Curve Theory:

Introduction, meaning and definition of learning curve, phases in learning curve, applications of learning curve, factors affecting learning curve, comparison between learning curve and experience curve.

Module – 4: Cost of Quality and TQM

Definition, classification of quality costs, cost of Conformance, Prevention costs, appraisal costs, cost of Non-conformance, optimization of quality cost, TQM Core concepts of TQM, Benefits of TQM. TQM óbasics, stages, principles, control, corrective actions, PRAISE- steps, problems, implementation Cost of quality report Continuous process improvement.

Module – 5: Balanced Scorecard and Benchmarking

BSC: Introduction, drawback of traditional financial measures, attributes to good performance measurement system, concept of balanced score card, perspectives of B.SC and implementation of Balanced score Card, case studies on BSC.

Benchmarking ó Concepts, Benchmarking process, Impact on Indian Industry, Types of Benchmarking

- 1. Ravi. M. Kishore, Cost Management, Taxman, Allied Services (p) Ltd.,
- 2. S.K.R. Paul, Management Accounting, New Central Book Agency Private Ltd., Calcutta.
- 3. Charles T. Horngren, George Foster, Srikant M. Data, *Cost Accounting: A Managerial Emphasis*, Prentice Hall of India, New Delhi.
- 4. Roger Cowe, *Hand Book of Management Accounting*, A Grower Handbook.
- 5. S. Mukherjee & A.P. Roychowdhury, *Advanced Cost and Management Accountancy*, New Central Book Agency, Calcutta.
- 6. Anthony R.N, Management Accounting Principles, Grawin Publishing.
- 7. Batty J, Mc Donald & Evans, Management Accountancy, London.
- 8. Bierman H & Drabin A.R, An Introduction Managerial Accounting, McMillan Company, New York.
- 9. Broad H.W & Carmichael K.S, A Guide to Management Accounting, HFL (Pub) Ltd., London.
- 10. Brown & Haward, Mac Donald, Evans, Principles of Management Accountancy, London.
- 11. De Pauls, Management Accounting in Practice, F.C. Europe Pub. Ltd., London.
- 12. Keith Ward, Strategic Management Accounting, Butterworth Heirmann Pub.
- 13. John K. Shank, Cases in Cost Management: A Strategic Emphasis, South-Western Publishing, Thomson Learning.

ODS AND SERVICE TAXES

the indirect tax laws.

Government Revenues, fiscal preference as instrument of planning and developmentô role of indirect tax laws.

Module - 2:

Central Excise and Salt Act 1944: Nature of levy of excise duty, classification of excisable goods, price lists and their significance, valuation of excisable goods, central excise licensing ó detailed procedure.

Clearance of excisable goods ó procedure under physical control, compounded levy scheme and self-removal procedures, gate passes, personal ledger account and daily stock accounts.

Exemption from excise duty levies ó nature and types of exemption notifications. Procedure for clearance of samples, semi-finished goods and return and retention of duty paid goods. CENVAT, CENVAT on Capital goods.

Tariff item 68 ó significance of the levy, exemption and clearance procedure.

Set off of duties ó meaning, schemes of set-off and details of procedure.

An overview of accounts, records and returns to be maintained/filed under the Act. Adjudication and appeals ó detailed procedure before various excise authorities and the appellate tribunal ó Transfer pricing

Module - 3:

Customs Act 1962: Details of procedure in relation to the levy, collection and exemption from customs duties ó documents to be prepared and presented to customs authorities, valuation of goods, clearance of imported and exported goods procedure. Detailed procedure in relation to transportation and warehousing ó relevant rules and regulations.

Drawback of customs duties paid, preparation and submission of drawback claim forms.

Adjudication and appeals before the customs authorities and the appellate Tribunal.

Module - 4:

Central Sales Tax Act 1956: Constitutional background of CST, Inter-state trade and commerce restriction of powers of taxation on sales by state ó liability of sales tax ó inter-state sale ó occasions movement of goods, sale by transfer of documents, sale under CST ó transactions which are not sales ó persons liability of sales tax.

Persons liable to pay CST ó exemptions from CST ó sales outside the state ó sale in course of import/export ó declared goods, forms of declaration.

KST ó VAT, advantages, disadvantages. Etc..

Module - 5:

G.S.T (GST should be taught after introduction by the Government along with the amendments time to time)

- 1. L.K. Jain, Central Excise Mannual, Contay Publishers P. ltd.
- 2. D.N. Khole, B.N. Sharma etal, Customs Tariff, Census Publishers.
- 3. Bare Acts of CST and KST
- 4. B.K. Ghargava, *Indirect Tax Laws*, Taxman Allied Services.
- 5. V.S. Datey, U.K. Bhargava, *Indirect Tax Law and Practice*.



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Ianual, ii) Central Excise Manual, iii) Central Excise Law

entral Excise – Law and Practice Vol. I, Wadhwa and Co.

al Excise – Law, Practice and Procedure Vol. I & II, Modern

- 10. S.P. Bhatnagar, Customs Law and Procedure, Contex Pub. New Delhi.
- 11. P.L. Malik, Commentaries on Customs Act, 1962, with Rules and Notifications, Eastern Book Company, Lucknow.

and Procedures, Nabi Pub. New Delhi.

- 12. Jai. Kr. Jain and Anand Prakash, Law of Control Sale Tax in India, Anand Prakashan, Jaipur.
- 13. Dokania, Central Sales Tax Act, Bharat Law House, Allahabad.
- 14. Background material on GST ó The Institute of Chartered Accounts of India ó New Delhi.

FINANCE AND BANKING

COMMODITY MARKETS

world of commodity markets financial instruments used in commodity markets.

Module – I Commodity Markets and Exchanges:

Growth of Global and Domestic Commodities Derivatives Markets, Agricultural Commodities Market and Non-Agricultural Commodities Markets

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- 12. Location in Space: A Theoretical Approach to Economic Geography, Lloyd and peter.
- 13. Land, Work and Resource: An Introduction to Economic Geography, Patterson J.H.
- 14. Annals of an Abiding Liberal, Galbraith.
- 15. Economic Geography, Truman A. Harsshron and John W. Alexander.
- 16. World Resouces and Trade, Khanna and Gupta.
- 17. World Resources, Zimmerman.
- 18. Economic Geography ó A Resouces Approach ó Gun and Chatterji.
- 19. CD of IIPM Commodity Futures National Seminars.
- 20. Economic Geography ó Prentice Hall of India.
- 21. Economic Times & Business Line (Daily)
- 22. Business India (Magazine).



FOREX MANAGEMENT

acquire skills in forex management. apply the above knowledge to managing finances of an

Module - 1:

The foreign exchange market, structure and organization- mechanics of currency trading ó types of transactions and settlement dates ó exchange rate quotations and arbitrage ó arbitrage with and without transaction costs ó swaps and deposit markets ó option forwards ó forward swaps and swap positions ó Interest rate parity theory.

Module - 2:

Currency and interest rate futures, future contracts, markets and trading process, future prices spot and forward, hedging and speculation with currency futures ó interest rate futures ó foreign currency options ó option pricing models ó hedging with currency options ó futures options ó innovations.

Module - 3:

Exchange rate determination and forecasting ó Setting the equilibrium spot exchange rate ó theories of exchange rate determination ó exchange rate forecasting.

Module - 4:

Foreign exchange risk management ó hedging, speculation and management of transaction exposure ó using forward markets for hedging ó hedging with money market, currency options and currency futures ó internal hedging strategies ó speculation in foreign exchange and money markets.

Module - 5:

Management of interest rate exposure ó nature and measurement ó forward rate agreements (FRA¢s) interest rate options, caps, floors and collars, cap and floors ó options on interest rate futures, some recent innovations ó financial swaps.

- 1. Shapiro Alan. C., *Multinational Financial Management*, Prentice Hall, New Delhi
- 2. Apte P.G, International Financial Management, Tata McGraw Hill, New Delhi.
- 3. Mcrae T.N and D.P Walkar, Foreign Exchange Management, Prentice Hall.
- 4. Evilt H.E, Manual of Foreign Exchange.
- 5. Holgate H.C.F, Exchange Arithmetic.
- 6. Rajwade A.V., Foreign Exchange Risk Management, Prentice Hall of India.

FINANCIAL INSTITUTIONS & MARKETS

ernational Financial institutions & markets e this knowledge in financial decision making of

Module – 1:

Introduction: What are the global Financial Markets? The Foreign Exchange Market ó Comparison of Domestic and International Money and Capital Markets ó Global Derivatives Market ó The mechanism of Foreign Exchange Transfers ó Foreign Exchange and Eurocurrency Markets.

Module – 2:

International Money Market ó Instruments traded ó Euro currency time Deposits ó Euro notes ó Bankerøs acceptance ó Floating Rate Notes ó International banking and Euro Currency Market ó Syndication technique.

International Capital Markets ó Bond Market ó Eurobonds and Foreign Bonds ó Structure of International Bond Market ó Yields and Proceeds Computation ó Currency and Interest ate swaps ó How Scrap rates are determined ó Swaps versus Long ó Dated Forwards ó Caps and Floors.

Module – 3:

International Equity Markets ó World& Major Stock Markets ó Emerging Stock Markets ó International Equity trading ó Diversification benefits of International Investment ó New Issue procedures ó Private Placements and Rule 144A ó fledging the currency Risk of International Portfolios.

International Banking ó Services offered by the foreign banks ó Organisation structure and operations of foreign banks (as affiliated banks, consortium banks, correspondent banks etc..) ó Why banks became Multinational units ó Problems of Multinational banks.

Module – 4:

Financial Intermediation ó maturity transformation and inter bank activity ó International Trade involving letter of credit ó An overview of typical transaction ó alternative payment and guaranteeing procedure.

- 1. Meric, Ilhan, õGlobal Financial Markets at the Turn of the Centuryö, Science & Technology Books.
- 2. Maxwell, Charles E; Bruckner (editor), õFinancial Markets and Institutions: The Global Viewö, West Publishing Company, 1994.
- 3. Ian H Giddy, Global Financial Markets, Houghton Mifflin in Co., USA, 1997.
- 4. John R. Prick, Hkent Basker, John A Hasliem, õFinanical Markets: Instruments and Conceptsö, Reston Pub. Co. NY 1995.
- 5. David Kidwell Richar I. Peterson and David W Bcakwell, õFinancial Institutions: Markets and Moneyö, Harcourt Brace, Javanbvich, 1993.
- 6. Rajwade V A õForeign Exchange: International Finance and Risk Managementö, Academy of Business Studies, New Delhi, 1991.
- 7. Apte P G, õInternational Financial Managementö, Tata McGraw Hill, New Delhi, 1995.
- 8. Johnson, Hazel, õGlobal Financial Institutions and Marketsö, Blackwell publishing.
- 9. Kaushik, Surendra K, õInternational Capital Markets: New Directionsö, New York Institute of Finance, 1989.
- Yoon S Park Jack Zwick Addision, õInternational Banking Theory and Practiceö Wesley Publication, 1984.



G OPERATIONS MANAGEMENT

erstanding of Banking Operations.
application tools towards formulating and implementing agement.

Module – 1:

Regulatory policies influencing bank operations ó an overview (Basel committee, prudential norms, FEMA-Banker& compliance)

Module – 2:

Resource Mobilisation or Liability Management ó Deposits ó types, classification and pricing; management of reserves; management of NRI funds.

Module – 3:

Asset Management ó credit management ó origination, appraisal, sanction, documentation, disbursement, credit policy, credit planning, pricing of credit; Investment Management; Cash and Treasury Management.

Module - 4:

Monitoring and Follow-up; IRAC Norms (i.e., Income recognition and Asset Classification norms); Non-performing Assets. Securitisation Act.

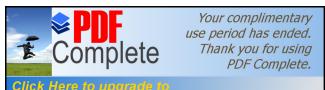
Module – 5:

Financing imports and exports ó foreign currency dealing and foreign exchange markets. Monitoring of foreign trade transactions ó EXIM Policy.

E-Banking, Payment Systems, Settlement System, Business and Profit planning.

BOOKS RECOMMENDED:

- 1. Indiaøs Banking and Financial sector in the New Millennium ó Volume I & II.
- 2. Bala Shenmugam, Craig Turton, George Hempel; Bank Management.
- 3. How to borrow from Banking and Financial Institutions, Nabhi Publication.
- 4. Mary P. Merril; Financial Planning in the Bank.
- 5. David Kidwell Richar I. Peterson and David W Bcakwell, õFinancial Institutions: Markets and Moneyö, Harcourt Brace, Javanbvich, 1993.
- 6. Rajwade V A õForeign Exchange: International Finance and Risk Managementö, Academy of Business Studies, New Delhi, 1991.
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- 8. Johnson, Hazel, õGlobal Financial Institutions and Marketsö, Blackwell publishing.
- 9. Kaushik, Surendra K, õInternational Capital Markets: New Directionsö, New York Institute of Finance, 1989.



SYSTEM MANAGEMENT COMMODITY MARKETS

world of commodity markets financial instruments used in commodity markets.

Unlimited Pages and Expanded Features Noutle - 1 Commounty Markets and Exchanges:

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- 23. Location in Space: A Theoretical Approach to Economic Geography, Lloyd and peter.
- 24. Land, Work and Resource: An Introduction to Economic Geography, Patterson J.H.
- 25. Annals of an Abiding Liberal, Galbraith.
- 26. Economic Geography, Truman A. Harsshron and John W. Alexander.
- 27. World Resouces and Trade, Khanna and Gupta.
- 28. World Resources, Zimmerman.
- 29. Economic Geography ó A Resouces Approach ó Gun and Chatterji.
- 30. CD of IIPM Commodity Futures National Seminars.
- 31. Economic Geography ó Prentice Hall of India.
- 32. Economic Times & Business Line (Daily)
- 33. Business India (Magazine).

Web sites of Commodity exchanges like CBOT, KBOT, LIFFE, SIMEX, TOCOM, NCDEX, MCXM NMCE, NBOT.



TIFICIAL INTELLIGENCE

les of intelligence and its application in different areas. knowledge representative, problem society and learning

Unit-I:

AI roots and scope- History of applications from Eden to ENIAC: Attitudes towards intelligence knowledge, and Human Artifice, Overview of AI Application areas.

Artificial Intelligence as Representation and Search: Introduction, The prepositional Calculus, The predicate calculus, Using co Rules to produce predicate calculus Expressions, Applications: A Logic Based Financial Advisor.

Unit-II:

Structures and Strategies for state space search: Introduction, Graph Theory- Strategies for state space search, Using the state space to represent. Reasoning with the predicate Calculus.

Unit-III:

Heuristic Search: Introduction, An algorithm for Heureistic search, admissibility, Monotonicity and Informedness, using Heuristics in Games, Complexity issues.

Unit-IV:

Representation and Intelligence: The Al Challenge knowledge representation: Issues in knowledge representation- A brief History of AI representational schemes- conceptual Graphs: A Network Language- Alternatives to Explicitly Representation- Agent based Distributed Problem solving

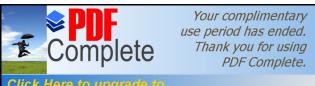
Strong Method Problem Solving:

Introduction, Overview of Experts systems- Technology- Rule-Based Expert systems- Model, Case based and Hybrid systems, Planning.

Unit-V:

Reasoning in uncertain situations: Introduction- Logic-Based Abductive Inference-Abduction - Alternatives to Logic- The Stochastic Approach to Uncertainty.

- 1. George Fluge, Artificial Intelligence, Pearson Education,5th Edition 2008.
- 2. Elaine Rich Kevin Knight, Artificial Intelligence, Tata McGraw Hill, New Delhi, 2007



D COMPUTING AND APPLICATIONS

secure distributed applications.

Proposition system and networking.

Introduction ó Definition - the history of distributed computing ó Different forms of computing ó the strengths and weakness of distributed computing ó Basics of operating systems- Network basicsó s/w engineering basics.

Unit-II:

Inter process communication- An archetypal IPC program interface ó event synchronization- Timeouts and threading- Deadlocks and timeouts ó Data representation-Data encoding ó Text óBased protocols- Request Response protocol-Event Diagram and sequence diagram ó connection oriented Vs Connectionless IPC- Evolution of paradigms for interprocess communication.

Unit-III:

Distributed computing paradigm ó paradigms and abstraction ó An example application ó Paradigms for distributed applications - Trade offs.

Unit-IV:

The Socket API- Socket Metaphor in IPC-The Datagram Socket API-Stream Mode Socket API-Sockets with Non-blocking I/o operations-Secure Socket API.

Unit-V:

Client-server paradigm- Client- server paradigm issues ó Software engineering for a N/w service-connection oriented and connection less server - Iterative server and concurrent server- stateful servers.

- 1. Distributed computing principles and applications by M.C. Liu. (Pearson education)
- 2. Distributed Databases principles & Systems by Stefanoceri, Ciaeppe pelagatti Fater Mc Graw Hill Edition
- 3. Principles of distributed Database systems by M. Tamer Ozsel Patrick valderiez (Pearson education)



NG AND DATA WAREHOUSING

ytics results from data mining.

2. To understand overall architecture of data warehouse, techniques and methods for data gathering

Unit-I: Introduction

Data Mining Functionalities- Classification of Data Mining systems-Data Mining task primitives- Integration of a Data mining system with a Database or Data warehouse system-Major Issues in Data Mining.

Unit-II:

Data Processing- Descriptive Data Summarization ó Data cleaning ó Data Integration and Transformation ó Data Reduction- Data Discretization and Concept hierarchy generation.

Unit-III:

Data warehouse and OLAP Technology ó an overview- A multi Dimensional Data Model-Data ware house Architecture- Data warehouse Implementation ó from Data ware house into Data Mining.

Unit-IV:

Mining Frequent patterns, Association and Co-relation ó Basic Concept and a road mapefficient and Scalable frequent item set mining methods- Mining various kinds of Association rules.

Unit-V:

Classification and Prediction ó Issues regarding classification and Prediction ó Classification by decision tree induction- Bayesian classification ó Rule Based classification.

- 1. Jiaweihan and Micheline Kamber: Data Mining Concepts and Techniques.
- 2. Richard J. Roigel, Michael W. Geatz, Data Mining ó A tutorial Based primmer ó Pearson Education, New Delhi,2005.
- 3. Tan ó Data mining, Pearson Education.



ELECTIVE SUBJECT 6 a. INCOME TAX

OBJECTIVE

The objective of this subject is to expose the students to the various provision of Income Tax Act, 1961 relating to computation of Income relating to individual assesses only.

Unit 1: INTRODUCTION TO INCOME TAX

Income Tax: Brief History of Indian Income tax - Legal Frame Work ó Types of Taxes - Cannons of Taxation ó Important Definitions ó Assessment ó Assessment Year ó Previous Year ó Exceptions to the general rule of Previous Year - Assessee ó Person ó Income ó Casual Income ó Gross Total Income ó Total Income - Agricultural Income.

Income tax authorities: Powers and Functions of CBDT, CIT & A.O.

Residential Status: Residential Status of an Individual ó Determination of Residential Status - Resident ó Ordinary / Not Ordinarily Resident ó Non-resident ó Incidence of Tax ó Simple Problems on Scope of Gross Total Income.

Exempted Incomes: Introduction ó Exempted Incomes U/S 10 (Restricted to Individual Assessee) ó Only theory

Unit 2: INCOME FROM SALARY

Meaning ó Definition - Basis of Chargeó Advance Salary ó Arrears of Salary ó Allowances ó Perquisitesó Provident Fund - Profits in Lieu of Salary ó Gratuity - Commutation of Pension - Encashment of Earned leave - Deductions from Salary U/S 16 ó Problems on Income from Salary (Only Individual assessee).

Unit 3: INCOME FROM HOUSE PROPERTY

Basis of Charge ó Deemed Owners ó Exempted Incomes from House Property óComposite Rent - Annual Value ó Determination of Annual Value ó Treatment of Unrealized Rent ó Loss due to Vacancy ó Deductions from Annual Value ó Problems on Income from House Property.

Unit 5: COMPUTATATION OF TOTAL INCOME

Income from **Business** / **Profession, Capital Gains, Other Sources** (Theory only) and Deductions U/S 80C, 80D and 80G. Simple problems on Computation of Total income of an Individual assessee (Computed incomes of Business / Profession, Capital Gains, Other Sources will be given).

BOOKS FOR REFERENCE

- 1. B.B. Lal and Vashist: Direct Taxes, Konark Publisher (P) ltd.
- 2. Dr. Mehrotra and Dr. Goyal: Direct Taxes ó Law and Practice, SahityaBhavan Publication.
- 3. Dr. Vinod K. Singhania: Direct Taxes ó Law and Practice, Taxmann publication.
- 4. Gaur & Narang: Income Tax, Kalyani Publisher s
- 5. DinakarPagare: Law and Practice of Income Tax, Sultan Chand and sons.
- 6. Dr.V.Rajesh Kumar and Dr.R.K.Sreekantha: Income Tax ó I and II, Vittam Publications.

ELECTIVE SUBJECT NANCE AND BANKING

Objectives:

- 1. To expose the students to Finance and Banking System along with the latest reforms in Banking.
- 2. To enable the students to understand the operations in Finance and Banking

Unit 1: FINANCIAL MARKETS

Introduction, Primary Market and Secondary Markets - Meaning ó Features - Players of Primary Market. Shares, debentures ó meaning, features. Stock market operations treading, clearance and settlement procedures. Types of Investments ó Stock and Shares, real estate, mutual funds, post office, insurance ó schemes.

Unit 2: COMMODITY MARKET:

Evolution, Commodity derivatives, Commodity exchanges-Regional & National and International, Functions, role, objectives and types- Types of transactions in Commodity market ó Spot, Future and Forward options markets. (Concepts only)

Unit 3: BANKS:

Introduction, functions and types of Banks, Role of RBI, Types of Accounting, Procedure for opening accounting, KYC, types of loans, Operation of Accounting, Retail Banking, Corporate Banking.

Unit 4: NEGOTIABLE INSTRUMENTS

Cheques ó Meaning & Definition ó Features - Parties ó Crossing of cheques ó types of crossing. Endorsements ó Meaning ó Essentials ó Kinds of Endorsement.

Book References

- 1. Gorden and Natarajan: Banking Theory Law and Practice
- 2. Tannan M L: Banking Law and Practice in India
- 3. Vasant Desai, Bank and Institutional Management, HPH,
- 4. Muralisubbakrishna, Bank Credit Management,
- 5. O Payramval, Modern Banking of India.
- 6. Shekar K C: Banking Theory Law and Practice
- 7. S.P. Srivastava: Banking Theory Law and Practice
- 8. Location in Space: A Theoretical Approach to Economic Geography, Lloyd and peter.
- 9. Land, Work and Resource: An Introduction to Economic Geography, Patterson J.H.
- 10. Annals of an Abiding Liberal, Galbraith.
- 11. Economic Geography, Truman A. Harsshron and John W. Alexander.
- 12. World Resouces and Trade, Khanna and Gupta.

REGULATIONS PERTAINING TO MASTER OF FINANCE AND ACCOUNTING (M.F.A) COURSE UNDER CBC SYSTEM FROM 2014-15 ONWARDS

1. OBJECTIVE:

The broad objective of the Master of Finance and Accounting course is to impart to the Students, professional education and training in various aspects of business and its environment and provide them with opportunities to develop managerial and analytical skills in order to meet the challenges of business at the national and global level.

2. Eligibility for Admission:

A candidate who has passed the B.Com/B.B.M/BBA/BBS Degree examination of this University or of any other University recognized as equivalent thereto and has secured not less than 50% of the marks in the aggregate shall be eligible for admission to the course. In the case of SC/ST/Cat-I students and blind students the minimum percentage of marks required shall be less by 5%.

3. Duration of the Course:

The course of study for M.F.A, degree shall extend over a period of two years divided into 4 (four) semesters. Each Semester will be of 16 weeks or more duration with a minimum of 90 actual working days.

4. Scheme of Instruction:

- 1. In each semester there will be seven papers (including practicals)
- 2. There will be 27contact hours per week. This includes practicals.
- 3. Candidates are required to maintain record for computer practicals, which will have to be certified by the Chairman / Co-ordinator of the course, failing which students will not be permitted to take the end' semester examination in that subject.

5. Attendance:

Each course (theory/practical) shall be treated as an independent unit for the purpose of attendance. A student shall attend a minimum of 75% of the total instruction hours in a course (theory/practical) including tutorials and seminars in each semester. There shall be no provision for condonation of shortage of attendance and a student who fails to secure 75% attendance in a course shall be required to repeat that semester.

6. Medium of Instruction:

The medium of instruction shall be English. However a candidate will be permitted to write the examination either in English or in Kannada.

7. Registering for the Examination:

A candidate shall register for all the papers of a semester when he appears for the examination of that semester for the first time.

8. Scheme of Examination:

- 8.1 There shall be a University examination at the end of each semester.
- 8.2 The details of the scheme of examination are as given below:

Sl. No.	Course	Duration	No. of papers per semester	Maximum Marks of Per Semester	No. of Credits
1	M.F.A	1 & 11	6+1	700	52 (26+26)

- 8.3 Each semester will normally have six (Hardcore) and one (soft core) paper and each shall be for 100 marks.
- 8.4 Each semester will normally have six papers and each shall be for 100 marks.
- 8.5 (i) The composition of theory and internal assessment marks for each paper will be 70 and 30 respectively. However, in Computer related papers it will be 70+30 (theory + practical).
 - ii. Duration of examination per theory paper of 70 marks shall be for 3 hours, for practicals it will be 11/2 (one and half) hours.
 - iii. Practical records will be evaluated as part of the practical examination.
 - iv. In case of practical examinations, students will be assessed on the basis of knowledge of processes, skills operations involved, results/calculations and reporting.
 - v. Practical examination will be conducted with both internal and external examiners. If the external examiner absents, then the examination will be conducted by two internal examiners.
- 8.6 Every theory paper shall ordinarily consist of two/three sections, developed to testing of conceptual skills, understanding skills, comprehension skills, articulation and application skills.
- 8.7 (i) In case of theory papers the various components of internal assessment will be as follows:
 - i. Assignment 5 Marks
 - ii. Attendance 5 marks
 - iii. Internal Test 20 Marks

(The test shall be for $1_{1/2}$ hour duration carrying 40 marks. The marks scored by the candidate shall be later reduced to 20 marks).

- (ii) The Departmental Council / College / Centre shall notify in the first week of each semester, scheme of internal assessment, containing the details of tests, assignments, and seminars.
- (iii) Co-ordination Committee: In order to monitor IA tests there shall be Co-ordination Committee consisting of the following:
 - 1. Chairman BOS: Chairman
 - 2. One senior faculty member
 - 3. Two members from affiliated colleges as recommended by the BOS
- (iv) At least one week prior to the last working day, I.A: marks secured by the candidates shall be displayed on the notice board.
- (v) The Departmental Council / College / Centre may decide to give test/seminar to candidates who absent themselves for the above, only if the Council is convinced that the absence of the candidate is on valid grounds. However, the Council will allow the candidate to avail of this provision within the duration of that semester.
- (vi) The statement of internal assessment shall be sent to the Registrar (Evaluation) one week prior to the commencement of that particular semester examination.

Question Paper Pattern:

Section - A:

Answer any Seven Questions out of Ten. Each Question Carries Two Marks (7x2=14)

Section – B:

Answer any Four Questions out of Six. Each Question Carries Five Marks (4x5=20)

Section - C:

Answer any Three Questions out of Five. Each Question Carries Twelve Marks (3x12=36)

9. Internship Training:

Each student will select one business unit – a manufacturing or service organization for his training after the second semester. The student will study the organizational structure, financial position, information systems, customer profile, profile of competitors and the like, besides studying the marketing, HR and operations practices and submit a report in the beginning of third semester which will be evaluated for 50 marks by single examiner.

10. Dissertation:

Each candidate is required to develop a case in finance/accounting/banking and analyse the same with probable solutions and submit a report based on the above to the Chairman of the Department before the end of semester. This will be evaluated for 70 marks. Dissertation guidance for a faculty member will involve a workload of 5 hours per week in a semester. Dissertation guidance of 8 students by a faculty member will be equivalent to the teaching of one paper per semester. Viva voce examination will be conducted for 30 marks by BOE.

11. Board of Examiners and Valuation of Answer Scripts:

- 11.1 Each written paper shall be valued by one internal examiner and one external examiner. Each practical examination shall be jointly conducted and evaluated by one internal examiner and one external examiner or two external examiners if there are no internal examiners. But not by two internal examiners.
- 11.2 If the difference in marks between two valuation is more than 15% of the maximum marks, the Registrar (Evaluation) or his nominee shall check the entries and the total marks assigned by the two valuers. If there is any mistake in totaling, it shall be rectified. While checking the total, if it is observed that any one or more of the answers is not valued by one of the valuers, the Chairman, BOE shall advise internal members of the Board of Examiners to value that answer. After receiving the marks, the Chairman, BOE shall make the necessary corrections. Despite all these corrections, if the difference between the two valuations is still more than 15%, the Chairman, BOE shall arrange for third valuation by examiners from the approved panel of examiners.
- 11.3 In case of two valuations, the average of the two valuations and if there are three valuations, the average of the nearest two valuations shall be taken for declaring results. The candidates not satisfied with the results may apply for photocopies of the answer scripts and / or challenge valuation.

12. Challenge Valuation:

A student who desires to challenge the marks awarded to him/her may do so by submitting an application along with the prescribed fee to the Registrar (Evaluation) within 15 days after the announcement of the results. Such candidates shall be provided with a Xerox copy of the answer book after concealing the name of the valuers.

The answer scripts for which challenge valuation is sought for shall be sent to another external examiner. The average of the marks awarded in the challenge valuation and the marks of the earlier valuation which is closer to the challenge valuation shall be the final award.

Classification of Successful candidates:

Minimum for a pass in each paper shall be 40% (Semester paper in that/end paper no minimum for internal assessment) and 50% in aggregate of all the semester. However, minimum pass in each paper shall be 40% in semester end exam and 50% in aggregate of all papers in that semester.

The results of successful candidates at the end of each semester shall be declared on the basis of Percentage of Aggregate Marks and in terms of Grade Point Average (GPA) and alpha – sign grade. The results at the end of the fourth semester shall also be classified on the basis of Percentage of Aggregate Marks and on the basis of the Cumulative Grade Point Average (CGPA) obtained in all the four semesters and the corresponding overall alpha –

sign grade. An eight point grading system, alpha – sign grade as described below shall be adopted.

First Class with Distinction

70% and above (A+, A++ or O)

First Class

60% and above but less than 70% (A)

High Second Class

55% and above but less than 60% (B+)

Second Class

50% and above but less than 55% (B)

Pass Class

40% and above but less than 50% (C)

Eight Point Alpha - Sign Grading Scale:

Grade Point Average	<4	4-<5	5-<5.5	5.5-<6	6-<7	7-<8	8-<9	9-10
Alpha-Sign Grade:	D	С	В	B+ •	A	A+	A++	0

The Grade Point Average (GPA) in a Semester and the Cumulative Grade Point Average (CGPA) at the end of fourth semester shall be computed as follows:

Computation of Grade Point Average (GPA):

The grade points (GP) in a course shall be assigned based on the basis of actual marks scored in that course as per the table below. They shall be generally percentages divided by 10. The Grade Point Weights (GPW) shall then be calculated as the product of the grade points earned in the course and the credits for the course. The total GPW for a semester is obtained by adding the GPW of all the courses of the semester.

ILLUSTRATION 1 (26 Credits)

Papers	P1	P2	Р3	P4	P5	P6	P7	Total
Max. marks	100	100	100	100	100	100	100	700
% Marks Obtained	77	73	58.	76	64	· 66	82	496
Grade Points Earned (G.P.)	7.7	7.3	5.8	7.6	6.4	6.6	8.2	-
Credits for the Course (C)	4	4	4	4	4	4	2	26
Total GPW = $GP \times C$	30.8	29.2	23.2	30.4	25.6	26.4	16.4	182

Semester Aggregate Marks

496 / 700 = 70.86%

Classification of Result.

First Class with Distinction

The GPA shall then be computed by dividing the total GPW of all the courses of study by the total credits for the semester, GPA = Total GPW / Total Credits = 182 / 26 = 7.0

Semester Alpha Sign Grade: A+

ILLUSTRATION 2 (24 Credits)

Papers	P1	P2	Р3	P4	P5	P6	Total
Max. marks	100	100	100	100	100	100	600
% Marks Obtained	67	73	78	76	84	88	466
Grade Points Earned (G.P.)	6.7	7.3	7.8	7.6	8.4	8.8	-

Credits for the Paper	4	4	4	4	4	4	24
Total GPW = GP x C	26.8	29.2	31.2	30.4	33.6	35.2	186.4

Semester Aggregate Marks: 466 / 600 = 77.67%

Classification of Result: First Class with Distinction

GPA = Total GPW / Total Credits = 186.4 / 24 = 7.77

Semester Alpha Sign Grade: A++

Calculation of Cumulative Grade Point Average (CGPA):

The Cumulative Grade Point Average (CGPA) at the end of the fourth semester shall be calculated as the weighted average of the semester GPW. The CGPA is obtained by dividing the total of GPW of all the four semesters by the total credits for the programme.

ILLUSTRATION I

Semester	I	II	III	IV	Total
Total Marks per Semester	700	700	600	600	2600
Total Marks Secured	496	560	466	510	2032
Semester Alpha Sign Grade	A+	A++	A+	A++	i.e.i
Semester GPA	7.0	8.0	7.77	8.5	-
Semester Credits	26	26	24	24	100
Semester GPW	182 ·	208	186.5	204	822.9

Aggregate Percentage of Marks = 2032 / 2600 = 78.15 %

Classification of Result: First Class with Distinction

Cumulative Grade Point Average (CGPA)

- = Total of Semester GPW / Total Credits for the programme = 780.5 /100 = 7.805

Programme Alpha Sign Grade: A++

These are the sample illustrations of computing semester grade point averages and cumulative grade point average and the alpha – sign grades assigned.

13. MINIMUM FOR A PASS:

- A candidate shall be declared to have passed the PG program if he/she secures at least a CGPA of 4.0 (Course Alpha-Sign Grade C) in the aggregate of both internal assessment and semester end examination marks put together in each unit such as Theory Papers / Practical's / Project Work / Dissertation / Viva-Voce.
- The candidates who pass all the semester examinations in the first attempts are eligible for ranks provided they secure at least CGPA of 6.0 (or Alpha-Sign Grade A).
 - 13.3 The results of the candidates who have passed the fourth semester examination but not passed the lower semester examinations shall be declared as NCL (Not Completed

- Lower semester examinations). Such candidates shall be eligible for the degree only after completion of all the lower semester examinations.
- 13.4 A candidate who passes the semester examinations in parts is eligible for only Class / CGPA and Alpha-Sign Grade but not for ranking.
- 13.5 There shall be no minimum in respect of internal assessment.
- 13.6 A Candidate who fails in any of the unit / project work / Project Report / dissertation / viva-voce shall reappear in that unit / project work / Project Report / dissertation / viva-voce and pass the examination subsequently.
- 14. CARRY OVER PROVISION: Candidates who fail in a lower semester examinations may go to the higher semesters and take the examinations.

15. REJECTION OF RESULTS:

- i. A candidate who fails in one or more papers of a semester may be permitted to reject the result of the whole examination of that semester. Rejection of result paper wise shall not be permitted. A candidate who rejects the results shall appear for the examination of that semester in the subsequent examination.
- ii. Rejection shall be exercised only once in each semester and the rejection once exercised shall not be revoked.
- iii. Application for rejection along with payment of the prescribed fee shall be submitted to the Registrar (Evaluation) through the department/college together with the original statement of marks within 30 days from the date of publication of the result.
- iv. A candidate who rejects the result is eligible for only class and not for ranking.

16. IMPROVEMENT OF RESULTS:

- i) A candidate who has passed in all the papers of a semester may be permitted to improve the result by reappearing for the whole examination of that semester.
- ii) The reappearance could be permitted twice during double the period without restricting it to the subsequent examination only. The regulation governing maximum period for completing various degree/ diploma programme notified by the University from time to time shall be applicable for improvement of results also.
- iii) The student could be permitted to apply for the improvement examination 45 days in advance of the pertinent semester examination whenever held.
- iv) If the candidate passes in all the subjects in reappearance, higher of the two aggregate marks secured by the candidate shall be awarded for that semester. In case the candidate fails in the reappearance, candidate shall retain the first appearance result.
- v) A candidate who has appeared for improvement is eligible for class only and not for ranking.

Internal assessment marks shall be shown separately in the marks card. A candidate who has rejected the result or who, having failed, takes the examination again or who has appeared for improvement shall retain the internal assessment marks already obtained.

A candidate who fails in any of the semester examinations may be permitted to take the examinations again at a subsequent appearance as per the syllabus and scheme of examination in vogue at the time the candidate took the examination for the first time. This facility shall be limited to the following two years.

17. POWER TO REMOVE DIFFICULTIES

- i) If any difficulty arises in giving effect to the provisions of these regulations, the Vice-Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.
- ii) Every order made under this rule shall be subject to ratification by the Appropriate University Authorities.

APPENDIX "A"

M.F.A (MASTER OF FINANCE AND ACCOUNTING) - COURSE MATRIX

Paper	Subjects	Instruction	Duration	Marks			Credits
Taper	Subjects	Hrs/Week	of Exam (Hrs)	IA	Exam	Total	Credits
II SEM	ESTER M.F.A (MASTER OF FINAN	CE AND ACC	COUNTING)		:10	
1.1	Accounting Conventions & Standards	4	3	30	70	100	4
1.2	Managing People in Organisations	4	3	30	70	100	4
1.3	Micro & Macroeconomics for Business Decisions	4	3	30	70	100	4
1.4	Managerial Finance	4	3	30	70	100	4
1.5	QT for Accounting and Finance	4	3	30	70	100	4
1.6	Financial Markets and Services	4	3	30	70	100	4
1.7	Soft Core Business Legal Systems	3	3	30	70	100	2
	I SEMESTER TO	TAL OF CRE	DITS	9	1		26

Paper	Subjects	Instruction	Duration		Marks		Credits
Тарст	Subjects	Hrs/Week	of Exam (Hrs)	IA	Exam	Total	
II SEM	ESTER M.F.A (MASTER OF FINAN	CE AND ACC	COUNTING)			
2.1	Contemporary Issues in Accounting	4	3	30	70	100	4
2.2	Information Technology for Accounting & Finance	4	3	. 30	70	100	4
2.3	Direct Taxes Planning	4	3	30	70	100	4
2.4	Securities Analysis and Portfolio Management	4	3	30	70	100	4
2.5	Strategic Cost and Management Accounting	<u> </u>	3	30	70	100	4
2.6	Asset Liability Management In Banks	4	3	30	70	100	4
2.7	Soft Core Business Research Methods	* 3	3	30	70	100	2
	II SEMESTER TO	OTAL OF CR	EDITS				26



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ASTER OF FINANCE AND ACCOUNTING)

	upgrade to ges and Expand	Instruction	Duration		Marks		Cuadita
ntea r a		Hrs/Week	of Exam (Hrs)	IA	Exam	Total	Credits
III SEI	MESTER M.F.A (MASTER OF FINA	ANCE AND AC	COUNTING	G)			-
3,1	Business Ethics & Corporate Governance	4	3	30	70	100	4
3.2	Goods and Service Taxes	4	3	30	70	100	4
3.3	Forex and Derivatives	4	3	30	70	100	4
3.4	Insurance and Risk Management	4	3	30	70	100	4
3.5	Advanced E – Business	4	3	30	70	100-	4
3.6	Open Elective	4	3	-30	70	.100	4
3.7	Internship Project Report			*	50	50	2
	III SEMESTER	TOTAL OF CR	EDITS	197			26

IV SEMESTER M.F.A (MASTER OF FINANCE AND ACCOUNTING)

Paper	Subjects	Instruction	Duration		Marks		
Тарег	Subjects	Hrs/Week	of Exam (Hrs)	IA	Exam	Total	Credits
IV SEM	IESTER M.F.A (MASTER OF FINA	NCE AND AC	COUNTING	G)			
4.1	Strategic Management	4 4	3	30	70	100	4
4.2	International Accounting	4 -	3	30	70	100	4
4.3	International Financial Management	4	3 *	30	70	100	4
4.4	Strategic Financial Management	4	3	30	70	100	4
4.5	Dissertation	18		Viva -Voce 50	200	250	10
	IV SEMESTER T	OTAL OF CR	EDITS				26

Open Elective

- a. Income Tax
- b. Finance and Banking

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