This is to certify that the following courses are introduced in the Program of B. Com (Banking & Insurance) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
B. Com (Banking & Insurance)	Retail Banking	BUCBIRB305
	Claims Management in Insurance Sector (Underwriting & Claim Management	BUCBIUCM407
	Corporate Banking	BUCBICB404
	Environment Management	BUCBIEM302

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This is to certify that the following courses are introduced in the Program of B.Com (Accounting & Finance) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
B.Com (Accounting & Finance)	Business Statistics	BUCFMBS202
	Organizational Behaviour	BUCAFOB401
	Environment Management	BUCAFEV302

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of Examinations

This is to certify that the following courses are introduced in the Program of B. Com (Financial Management) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
B. Com (Financial Management)	Financial Management-III	BUCFMFM307
	Project Finance & Management	BUCFMPFM403
	Macro Economics	BUCFMME301
	Environment Management	BUCFMBE205
	Financial Market Operation	BUCFMFMO404

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This is to certify that the following courses are introduced in the Program of B.M.S for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
B.M.S	Organisational Behaviour	BUCMSOB401
	Environment Management	BUCMSEM304

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This is to certify that the following courses are introduced in the Program of BMS Retail Management for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
	Principles of Management	BUCMSPOM101
	Fundamentals of Retailing	BUCMSFOR102
	Principles of Marketing	BUCMSPOMKT103
	Business Communication	BUCMSBC104
	Computer Application in Business	BUCMSCAB105
	Basic Automobile Technology	BUCMSBAT106
B.M.S (Retail Management)	Environmental Management	BUCMSEM201
	Grooming and Behavioural Skills	BUCMSGBS202
	Financial aspects of Retail Business	BUCMSFAR203
	Legal Aspects of Retail Business	BUCMSLAR204
	Organisational Behaviour and Human Resource Management	BUCMSOBH205
	Maruti Products & Services	BUCMSMPS206

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Examinations

This is to certify that the following courses are introduced in the Program of B.Voc. In Medical Laboratory Technology for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
	General Pathology	BUSMLT301
	Immunology And Serology	BUSMLT302
	Biochemistry- General	BUSMLT303
	Human Genetics And Pharmacology	BUSMLT304
	Foundation Course-I	BUSMLT305
	General Pathology Practical	BUSMLTP301
	Immunology And Serology Practical	BUSMLTP302
	Biochemistry- General Practical	BUSMLTP303
200	Human Genetics And Pharmacology Practical	BUSMLTP304
B.Voc. In Medical	Foundation Course-I Practical	BUSMLTP305
Laboratory Technology	Clinical Pathology	BUSMLT401
	Medical Mycology And Virology	BUSMLT402
	Biochemistry (Clinical)	BUSMLT403
	Histotechnology And Cytotechnology	BUSMLT404
	Foundation Course-II Practical	BUSMLT405
	Clinical Pathology Practical	BUSMLTP401
	Medical Mycology And Virology Practical	BUSMLTP402
	Histotechnology And Cytotechnology Practical	BUSMLTP403
	Foundation Course-II Practical	BUSMLTP404
	Biochemistry (Clinical) Practical	BUSMLTP405

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This is to certify that the following courses are introduced in the Program of B.Voc. (Cyber Security and Forensics) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
	Computer Oriented And Statistical Techniques	BUSBVCSF31
	Search Engine Optimization And Digital Marketing	BUSBVCSF32
	Free And Open-Source Software	BUSBVCSF33
	Software Engineering	BUSBVCSF34
	Media Content Development	BUSBVCSF35
	Python Programming	BUSBVCSF36
	Free And Open-Source Software Practical	BUSBVCSF3P1
	Software Engineering Practical	BUSBVCSF3P2
B.Voc. (Cyber Security	Media Content Development Practical	BUSBVCSF3P3
and Forensics)	Python Programming Practical	BUSBVCSF3P4
	Cyber Criminology	BUSBVCSF41
	Entrepreneurship	BUSBVCSF42
	Android App Development	BUSBVCSF43
	Cryptography	BUSBVCSF44
	Secure Programming Practices	BUSBVCSF45
	Fundamentals Of Computer Forensics	BUSBVCSF46
	Android App Development Lab	BUSBVCSF4P1
	Cryptography Lab	BUSBVCSF4P2
	Secure Programming Practices Lab	BUSBVCSF4P3
	Fundamentals of Computer Forensics Lab	BUSBVCSF4P4

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This is to certify that the following courses are introduced in the Program of B.Voc (Business Management & Entrepreneurial Development) for the AY 2022-23.

Name of the program	Name of the Course	<b>Course Code</b>
N	Information Technology	BUCBMEDIT301
	Human Values & Professional Ethics	BUCBMEDHVPE302
	Rural & Digital Marketing	BUCBMEDRDM303
	Organizational Behaviour	BUCBMEDOB304
	HRM	BUCBMEDHRM305
3.Voc (Business Management &	Strategic Management	BUCBMEDSM306
Entrepreneurial Development)	Project Management	BUCBMEDPM401
	Corporate Laws	BUCBMEDCL402
	Business Research Methods	BUCBMEDBRM403
	Corporate Communication & Public Relations	BUCBMEDCCPR404
	Financial Management	BUCBMEDFM405
	Consumer Behaviour	BUCBMEDCB406

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This is to certify that the following courses are introduced in the Program of B.Voc (Financial Market & Trading Operations) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
	Microfinance Executive (Ssc)	BUCFMTOME301
	Global Financial Market	BUCFMTOGFM302
	Commerce -III	BUCFMTOC303
	Business Law	BUCFMTOBL304
B.Voc (Financial Market &	Business Economics –III	BUCFMTOBE305
Trading Operations)	Insurance Agent	BUCFMTOIA401
	Practical Training 360 Hours (Covered In Viva Voce)	BUCFMTOPT402
	Commodity Market	BUCFMTOCM403
	Business Law –II	BUCFMTOBL404
	Business Economics –IV	BUCFMTOBE405

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This is to certify that the following courses are introduced in the Program of B.M.S. Honours (Event Management & PR) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
	Event Resource Management	BUEM301
	Event Hospitality & Catering	BUEM302
	Special Events – Wedding Planning & Live Events	BUEM303
	Event Marketing & Sponsorship	BUEM304
	Information Technology In Business Management - I	BUEM305
	Selling Skills	BUEM306
B.M.S. Honours (Event	Practical Training / Internship	BUEM307
Management & PR)	Legal Aspects Of Event Management	BUEM401
	Brand Management – Research & Development	BUEM402
	Special Events – Mice & Corporate Events	BUEM403
	Business Environment	BUEM404
	Information Technology In Business Management - II	BUEM405
	Environmental Studies	BUEM406
	Practical Training / Internship	BUEM407

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Dr. Avinash Patil

KALYAN 421304

Principal

Chairman

Board of Examination

This is to certify that the following courses are introduced in the Program of B.M.S. Honours (Sports Management) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
i i i	Sports & Entertainment Marketing	BUSM301
	Sports Funding & Financial Management	BUSM302
	Sports Media, Broadcasting & Journalism	BUSM303
	Sports Event Management	BUSM304
	Pr, Sponsorship & Advertising In Sports	BUSM305
B.M.S. Honours (Sports	Practical Training / Internship	BUSM306
Management)	Selling Skills	BUSM307
	Sports Law & Risk Management	BUSM401
	Global Sports Tourism	BUSM402
	Sports Health & Nutrition	BUSM403
	Sports Psychology	BUSM404
	Brand Management	BUSM405
	Practical Training / Internship	BUSM406
	Environmental Studies	BUSM407

Head, Dept. of Management Studies

Dr. Avinash Patil Principal

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This is to certify that the following courses are introduced in the Program of B. A. Geography for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
	Geography of Maharashtra	BUAGEO301
B. A. Geography	Agricultural Geography	BUAGEO302
	Geography of India	BUAGEO401
	Geography of Tourism	BUAGEO402

Head, Dept. of Geography

Dr. Avinash Patil Principal

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This is to certify that the following courses are introduced in the Program of B.A. (Multimedia and Mass Communication) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
	Globalisation & International Advertising	BUAMMCA511
	Reporting	BUAMMCJ511
	Investigative Journalism	BUAMMCJ512
	Advertising & Marketing Research	BUAMMCJ512
	Copy Writing	BUAMMCA513
	Features & Writing for Social Justice	BUAMMCJ513
	Social Media Marketing	BUAMMCA514
	Mobile Journalism & New Media	BUAMMCJ514
	Direct Marketing & E-Commerce	BUAMMCA515
	News Media Management	BUAMMCJ516
B.A. (Multimedia and Mass Communication)	Media Laws & Ethics	BUAMMCJ518
wass Communication)	Documentary & Ad Film Making	BUAMMCA518
	Digital Media	BUAMMCAJ611
	Newspaper & Magazine Making	BUAMMCJ612
7-8-2	Lifestyle Journalism	BUAMMCJ614
	Advertising Design	BUAMMCA612
	Contemporary Issues	BUAMMCJ613
	Television Journalism	BUAMMCJ615
	Magazine Journalism	BUAMMCJ616
	Media Planning & Buying	BUAMMCA615
	Advertising & Sales Promotion	BUAMMCA616
	Advertising in Contemporary Society	BUAMMCA613

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Dr. Avinash Patil Principal



This is to certify that the following courses are introduced in the Program of B.Sc. Honours (Interior Design) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
	Interior Design For Boutique	BUID301
	Technical Drawing For Villa & Bungalow	BUID302
	Technical Services For Villa & Bungalow	BUID303
9	Materials & Methods Of Construction For Enclosures	BUID304
	Practical Training/Internship	BUID305
	Introduction To Computer Aided Design (Cad)	BUID306
B.Sc. Honours (Interior	Selling Skills	BUID307
Design)	Interior Design For Club House	BUID401
	Construction Material & Methods For Ceiling & Floor	BUID402
	Technical Drawing For Boutique	BUID403
	Basics Of Plumbing & Hvac System	BUID404
	Practical Training/Internship	BUID405
	Advance Computer Aided Design	BUID406
	Environmental Studies	BUID407

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This is to certify that the following courses are introduced in the Program of B.Sc. Honours (Integrative Nutrition & Dietetics) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
	Introduction To Food Planning	BUIND301
16	Food Chemistry	BUIND302
100	Physiology - III	BUIND303
	Food Processing & Preservation - I	BUIND304
	Communication & Counselling Skills - II	BUIND305
	Foundation Course -1 Information Communication & Technology	BUIND306
	Selling Skills	BUIND307
B.Sc. Honours	Practical Training/ Internship	BUIND308
(Integrative Nutrition &	Fundamentals Of Biochemistry	BUIND401
Dietetics)	Clinical Biochemistry	BUIND402
	Physiology - III	BUIND403
	Nutrition Across Lifecycle	BUIND404
	Food Processing & Preservation - II (Practicals)	BUINDP405
	Nutrition Across Lifecycle (Practicals)	BUINDP406
	Food Processing & Preservation - II (Practicals)	BUIND407
	Foundation Course - 2 Entrepreneurship & Management	BUIND408
	Environmental Studies	BUIND409

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Dept. of Botany

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This is to certify that the following courses are introduced in the Program of M.Sc. Microbiology (Industrial Microbiology) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
	Microbial Technology	BPSIM301
	Fermentation Technology - I	BPSIM302
	Enzymology And Enzyme Technology	BPSIM303
	Entrepreneurship Development and Modern Management Practices	BPSIM304
M.Sc. Microbiology	Practical-I	BPSIMP1
(Industrial	Practical-II	BPSIMP2
Microbiology)	Fermentation Technology – II	BPSIMP-303
	Food and Dairy Microbiology	BPSIMP-304
	Quality Assurance and Industrial Laws	BPSIM401
	Industrial Waste Management	BPSIM402
	Practical I	BPSIM403
	Practical II	BPSIM404

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This is to certify that the following courses are introduced in the Program of M.Sc. Physics (By Papers) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
	Statistical Mechanics	BPSPH301
	Nuclear Physics	BPSPH302
	Microprocessor and Microcontrollers	BPSPHET303
2.7	C++ Programming and ARM 7	BPSPHET304
	Fundamentals Of Materials Science	BPSPHETM305
and the second	Nanotechnology And Semiconductor Device Technology	BPSPHETM306
	Practical - I	BPSPHETM301
M.Sc. Physics (By	Practical - II	BPSPHETM302
Papers)	Experimental Physics	BPSPH401
	Atomic & Molecular Physics	BPSPH402
	Materials And Their Applications	BPSPHETM403
	VHDL and Communication Interface	BPSPHET406
	Research Methodology And Introduction To Intellectual Property Rights	BPSPHET407
	Numerical Methods	BPSPHET408
	Practical I	BPSPHPM401
	Practical II	BPSPHPM402

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This is to certify that the following courses are introduced in the Program of M.Sc. Mathematics (Applied Mathematics) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
2-	Numerical Analysis-II	BPSMT301
	Applied Statistics-II	BPSMT302
	Optimization Techniques – I	BPSMT303
g.	Elective- I: Foundation Of Machine Learning	BPSMT304
M.Sc. Mathematics	Elective- II: Advance Graph Theory	BPSMT305
(Applied Mathematics)	Optimization Techniques – II	BPSMT401
	Elective-III (Machine Learning) V	BPSMT402
	Elective-IV (Graph Theory)	BPSMT403
	Elective-V (R-Programming And Sage Mathematics)	BPSMT404
	Project	BPSMT405

Head, Dept of Mathematics Dr. Avinash Patil Principal

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This is to certify that the following courses are introduced in the Program of M.Sc. Chemistry (Analytical Chemistry) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
	Quality In Analytical Chemistry- I	BPSCHEA301
	Advanced Instrumental Techniques- I	BPSCHEA302
	Bioanalytical Chemistry & Food Analysis	BPSCHEA303
	Environmental & Certain Industrially Important Materials	BPSCHEA304
	Practical-I	BPSCHEA3P1
M.Sc. Chemistry (Analytical Chemistry)	Practical-II	BPSCHEA3P2
	Quality In Analytical Chemistry II	BPSCHEA401
	Advanced Instrumental Techniques- II	BPSCHEA402
	Selected Topics In Analytical Chemistry	BPSCHEA403
	Research Methodology and Introduction To Intellectual Property Rights	BPSCHEA404
	Practical I	BPSCHEAP401
	Practical II	BPSCHEAP402

Head, Dept. of Chemistry

Dr. Avinash Patil Principal



This is to certify that the following courses are introduced in the Program of M.Sc. Zoology (Cell Biology and Cytogenetics) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
	Cell Biology - I	BPSZOOCB301
	Cell Biology - II	BPSZOOCB302
	Cytogenetics - I	BPSZOOCB303
	Cytogenetics - II	BPSZOOCB304
	Practical-I	BPSZOOCBP301
	Practical-II	BPSZOOCBP302
M.Sc. Zoology (Cell Biology and	Cell Biology-III	BPSZOOCB401
Cytogenetics)	Clinical Cytogenetics	BPSZOOCB402
	Tools And Techniques In Cell Biology And Cytogenetics	BPSZOOCB403
	Research Based Project	BPSZOOCB404
	Practical - I	BPSZOOCBP401
	Practical - II	BPSZOOCBP402
	Practical - III	BPSZOOCBP403

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Dept. of Zoology

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This is to certify that the following courses are introduced in the Program of M.Sc. Information Technology (Cloud Computing) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
	Cloud Management	BPSIT301
	Data Center Technologies	BPSIT302
	Cloud Application Development	BPSIT303
	Storage As A Service	BPSIT304
	Cloud Management Practical	BPSIT3P1
	Data Center Technologies Practical	BPSIT3P2
M.Sc. Information Technology	Cloud Application Development Practical	BPSIT3P3
(Cloud Computing)	Storage As A Service Practical	BPSIT3P4
	Advance IOT	BPSIT401
	Server Virtualization on Vmware Platform Practical	BPSIT402
	Internship	BPSIT403
	Project Documentation and Implementation	BPSIT404
	Advance IOT Practical	BPSIT4P1
	Server Virtualization on Vmware Platform Practical	BPSIT4P2

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This is to certify that the following courses are introduced in the Program of M.Sc. Artificial Intelligence for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
	Deep Learning and Neural Networks	BPSAI301
	Vision Intelligence	BPSAI302
	Internship in Industry	BPSAI303
M.Sc. Artificial Intelligence	Deep Learning and Neural Networks- Practical	BPSAI3P1
	Vision Intelligence- Practical	BPSAI3P2
	Reinforcement Learning	BPSAI401
	Natural Language Processing	BPSAI402
	Reinforcement Learning- Practical	BPSAIP401
	Natural Language Processing - Practical	BPSAIP402
	Project	BPSAI403

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This is to certify that the following courses are introduced in the Program of M.Sc. (Food Sciences & Nutraceuticals) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
	Food Chemistry And Biochemistry (Fcb – I)	BPFSN101
	Human Nutrition And Physiology, Clinical Dietetics Npc – I	BPFSN102
	Nutraceuticals And Functional Foods Nff – I	BPFSN103
	Nutraceuticals And Functional Foods Nff – II	BPFSN104
	Food Chemistry And Biochemistry(Fcb-I) Practical	BPFSNP101
	Human Nutrition And Physiology, Clinical Dietetics Npc – I Practical	BPFSNP102
	Nutraceuticals And Functional Foods Nff – I Practical	BPFSNP103
	Nutraceuticals And Functional Foods Nff – II  Practical	BPFSNP104
M.Sc. (Food Sciences &	Food Chemistry And Biochemistry(Fcb-II)	BPFSN201
Nutraceuticals)	Human Nutrition And Physiology, Clinical Dietetics Npc-II	BPFSN202
	Biostatistics, Instrumentation And Biological Evalution Bib-I	BPFSN203
	Biostatistics, Instrumentation And Biological Evalution Bib-II	BPFSN204
	Food Chemistry And Biochemistry(Fcb-II)  Practical	BPFSNP201
	Human Nutrition And Physiology,Clinical Dietetics Npc-II Practical	BPFSNP202
	Biostatistics, Instrumentation And Biological Evalution Bib-I Practical	BPFSNP203
	Biostatistics, Instrumentation And Biological Evalution Bib-II Practical	BPFSNP204

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This is to certify that the following courses are introduced in the Program of M.Sc. (Event Management & PR) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
ta .	Media Management	BPEM301
	Public Relations	BPEM302
	Event Hospitality & Catering	BPEM303
	Legal Aspects Of Event Management	BPEM304
	E-Commerce & Digital Marketing	BPEM305
	Special Events - Sports & Recreation Services	BPEM306
	Professional Practical Training / Internship	BPEM307
M.Sc. (Event	Effective Presentation Skills	BPEM308
Management & PR)	Tourism Marketing	BPEM401
	Business Negotiation Skills	BPEM402
	Experiential Marketing & Technology	BPEM403
	Event Safety & Risk Management	BPEM404
	Entrepreneurship Management	BPEM405
	Special Events - Mice & Corporate Events	BPEM406
	Capstone Project Report	BPEM407
	Personality Development Skills	BPEM408

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This is to certify that the following courses are introduced in the Program of M.Sc.(Sports Management) for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
M.Sc.(Sports Management)	Media Management	BPSM301
	Ethics & Governance	BPSM302
	Sports Law & Risk Management	BPSM303
	Global Sports Tourism	BPSM304
	Sports Health & Nutrition	BPSM305
	Professional Practical Training / Internship	BPSM306
	Effective Presentation Skills	BPSM307
	Tourism Marketing	BPSM401
	Sports Psychology	BPSM402
	International Sports Management	BPSM403
	Entrepreneurship & Project Management	BPSM404
	Sports Training & Tactics	BPSM405
	Practical Training / Internship Report	BPSM406
	Personality Development Skills	BPSM407

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This is to certify that the following courses are introduced in the Program of M.Com. Business Management for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
M.Com. Business Management	Human Resource Management	BPCBMHRM301
	Marketing Strategies And Practices	BPCBMMSP302
	Organizational Behaviour	BPCBMOB303
	Project Work – I	BPCBMPW304
	Supply Chain Management And Logistics	BPCBMSCML401
	Retail Management	BPCBMRM402
	Management For Business Relations	BPCBMMBR403
	Project Work – II	BPCBMPW404

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Dept. of Management Studies

Dr. Avinash Patil Principal



This is to certify that the following courses are introduced in the Program of M.Com. Accounting & Finance for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
M.Com. Accounting & Finance	Financial Analysis and Business Valuation	BPCAFFABV30
	Forex and Derivatives	BPCAFFD302
	Research Methodology	BPCAFACS303
	Internship Project Report	BPCAFIPR304
	International Accounting	BPCAFFABV301
	International Financial Management	BPCAFFD302
	Advanced Auditing	BPCAFACS303
	Internship Project Report	BPCAFIPR304

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Dept. of Management Studies

Dr. Avinash Patil Principal

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This is to certify that the following courses are introduced in the Program of M. A. Geography for the AY 2022-23.

Name of the Program	Name of the Course	Course Code
M. A. Geography	Principles of Geomorphology	BPGE101
	Principles of Climatology	BPGE102
	Perspectives in Human Geography	BPGE103
	Spatial Organization of Economic Activities	BPGE104
	Tools and Techniques of Spatial Analysis I	BPGE105
	Tools and Techniques of Spatial Analysis II	BPGE106
	Oceanography and Hydrology	BPGE201
	Geoinformatics	BPGE202
	Socio-Cultural and Political Geography	BPGE203
	Urban Geography	BPGE204
	Tools and Techniques of Spatial Analysis III	BPGE205
	Tools and Techniques of Spatial Analysis IV	BPGE206

Head, Dept. of Geography

Dr. Avinash Patil Principal

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This is to certify that the following courses are introduced in the Program of Five Years Integrated Biotechnology for the AY 2022-23

Name of the Program	Name of the Course	Course Code
	Basic Chemistry -I	BUSIBT101
	Biochemistry- I	BUSIBT102
	Biodiversity	BUSIBT103
	Basic Microbiology	BUSIBT104
	Biotechnology-I	BUSIBT105
	Genetics	BUSIBT106
	Ability Enhancement Course 1	BUSIBT107
	Practical based on Paper I and	BUSIBTP101
	Practical based on Paper III and IV	BUSIBTP102
Five Years Integrated	Practical based on Paper V and VI	BUSIBTP103
M. Sc. Biotechnology	Basic Chemistry -II	BUSIBT201
	Biochemistry- II	BUSIBT202
	Basic Life Science-I	BUSIBT203
	Basic Life Science-II	BUSIBT204
	Biotechnology-II	BUSIBT205
	Molecular Biology	BUSIBT206
	Ability Enhancement Course 2	BUSIBT207
	Practical based on Paper I and II	BUSIBTP401
	Practical based on Paper III and IV	BUSIBTP402
	Practical based on Paper V	BUSIBTP403

Head, Department of Biotechnology Dr. Avinash Patil
Principal