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BENGALURU  
CITY UNIVERSITY

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BE BOUNDLESS

## DEPARTMENT OF COMMERCE

Central College Campus, Dr. Ambedkar Veedhi, Bengaluru-560001



SYLLABUS FRAMED ACCORDING TO THE  
NATIONAL EDUCATIONAL POLICY (NEP 2020)

ACADEMIC YEAR 2021-22



# BENGALURU CITY UNIVERSITY

Palace Road, Bengaluru-560001

## B.COM - DATA ANALYTICS

Framed According to the National Educational Policy (NEP 2020)

[To implement from the Academic Year 2021-22]

## **INTRODUCTION**

The curriculum framework for B.Com. Degree is structured to offer a broad outline that helps in understanding the creative potential of new career growth opportunities based on changing industrial and societal needs. The course is upgraded keeping in mind the aspirations of students, with opportunities to major in specializations such as accounting, financial markets, marketing, human resources and banking to focus the students towards a career in those domains. The core concepts within subject have been updated to incorporate the recent advancements, techniques to upgrade the skills of learners to create a focus on various functional areas of business. Problem Based learning has been integrated into the curriculum for a better understanding of various concepts in business and commerce. The syllabus under NEP-2020 is expected to enhance the level of understanding among students and maintain the high standards of graduate program offered in the country. Effort has been made to integrate the use of recent technology and MOOCs to assist teaching-learning process among students. The major objective of the graduate program is to elevate the subject knowledge among students, and making them as critical thinkers thereby students can address the issues related to industry and other business sectors.

## **AIMS AND OBJECTIVES OF UG PROGRAMS IN B.COM:**

- To provide a well trained professional to the requirements of Industries, Banking sectors, Insurance companies, Financing Companies, Transport Agencies and corporates.
- Students can get through the knowledge of finance and accounting.
- The knowledge of different specialisations in accounting, costing, banking and finance with the practical exposure helps the students to stand in organization.
- To impart industry needed skill, problem solving and decision making competencies.
- To make students industry ready and develop various managerial and accounting skills for better professional opportunities
- To enrich students to adapt to an ever changing and dynamic business environment.

**PROCEEDINGS OF UG BOS MEETING OF –  
B.COM, B.COM (BUSINESS DATA  
ANALYTICS/INSURANCE/A&F/LSCM/TTM/TAX  
PROCEDURE/VOCATIONAL/BF) COURSES**

Proceedings of the BOS – UG – B.Com, B.Com (Business Data Analytics/IAS/A&F/LSCM/TTM/Tax Procedure/Vocational/BF) courses for the academic year 2021 – 2022 meeting held on 5th October 2021 at the Chamber of the Chairman (BOS), Department of Commerce, Central College Campus, Bengaluru City University, Bengaluru-560001 at 10:00 A.M. The Board has agreed and approved the course matrix and syllabus of first year of the above mentioned courses. In case any input required shall be initiated by the Chairman and necessary modification shall be done as approved by the Board.

**MEMBERS PRESENT:**

- |     |  |             |
|-----|--|-------------|
| 1.  | Dr.Muninarayanappa.M,<br>Chairman & Dean, Dept of Commerce                         | Chairperson |
| 2.  | Dr. Nagaraj.N,<br>Professor, Dept of Commerce, University of Mysore                | Member      |
| 3.  | Dr. H.Y. Kamble,<br>Professor, Dept of Commerce, Rani Channamma University         | Member      |
| 4.  | Dr.S. Raghunatha Reddy,<br>Dept of Commerce, Yogi Vemana University                | Member      |
| 5.  | Dr.R.Parvathi, Principal,<br>VET first Grade College, Bangalore                    | Member      |
| 6.  | Dr.D Raja Jebasingh,<br>Vice Principal, St. Joseph's Commerce College (Autonomous) | Member      |
| 7.  | Dr.B.G.Bhasakara, Principal, Vivekananda Degree College                            | Member      |
| 8.  | Dr.Padmaja, MLA College of Higher Learning   | Member      |
| 9.  | Dr.Bharathisha Rao, Principal, RVD College   | Member      |
| 10. | Dr.S.Harish, Principal, Vijaya Evening College                                     | Member      |
| 11. | CA Anil Bharadwaj, Chartered Accountant  | Member      |
| 12. | Sri. D Srinivas, Corporate Expert  | Member      |
| 13. | Dr. G.S. Raju, Institute of Valuers, President, Karnataka                          | Member      |

**MINUTES OF THE MEETING:**

1. The Chairman & Dean, Faculty of Commerce & Management, Bengaluru City University, welcomed all the BOS members of the B.COM Board for BOS meeting which was scheduled on 5.10.2021 at 10.00 A.M.

2. The Chairman said that it is not a one day process and continuous delebrations are required from time to time for updation of syllabus and pedagogy.
3. The Chairman highlighted about the Orientation Programme of NEP - 2020 for Commerce and Management faculties which was organised by the Faculty of Commerce and Management at Jnana Jyothi Auditorium on 1st September 2021 with three technical sessions (i.e., **1st session: Structure & Matrix, 2nd session: Policy Implementation and 3rd session: Inter Disciplinary Issues**) clarified all the doubts in implementations of NEP syllabus of UG Programmes by the Faculty of Commerce & Management, Bengaluru City University.
4. The Chairman briefed BOS members about the admission paths for Undergraduate Programmes as follows:
  - i. Exit after 1st year ( I & II Sem) – the candidate will be awarded with Certificate with minimum 48 credits.
  - ii. Exit after completing 3rd and 4th semesters – the candidate will be awarded with Diploma Certificate with minimum 96 credits.
  - iii. Exit after 3rd year ( V & VI Sem) – the candidate will be awarded with Bachelor Degree in Commerce with minimum 144 credits.
  - iv. The candidate can continue the 4th year (VII & VIII Sem) to get honours/ research degree with minimum 186 credits.
  - v. Students completing a 4th year Bachelor's programme with Honours/Research, may be Admitted to a 1st year Master's programme.
  - vi. Students completing a 4th year Bachelor's programme with Research, will be eligible for Admission for Doctoral Programme (Ph.D).
  - vii. After completing the requirements of a 3rd year Bachelor's Degree candidates who meet a minimum CGPA of 7.5 shall be allowed to continue studies in the 4th year Undergraduate programme to pursue and complete the Bachelor's degree with Research.
  - viii. Skill enhancement courses are compulsory for I to VI semesters.
  - ix. Attendance is 75% minimum for every subject.
  - x. Since students opt for Ph.D after honours, some subjects in required in depth knowledge.
  - xi. Introduction of auditing subject at earlier stage as a module in any one accounting Subjects.
  - xii. Instead of Business Regulatory framework, Basics of Auditing can be introduced.
  - xiii. Projects should be done by students outside or online and submit a certificate to validate.

- xiv. Income Tax and GST should be done from excel perspective not book method.
- xv. Research Methodology is a compulsory paper in 7th semester.
- xvi. Advanced excel should be introduced in 1st year.
- xvii. The medium of instruction should be only in English.
- xviii. Digital Currency like crypto currency has lot of scope and should be introduced at some point in curriculum.
- xix. Business Valuation subject needs to be introduced at future date.
- xx. All the B.Com programs can be integrated with specialised programs offered by the professional bodies like US – CMA, ACCA and ICAI (with MoU) to meet the demands of Industry or in collaboration with Miles Education and ISDA.

The meeting concluded with the approval of the BOS Board. It was resolved to implement the above changes in the Curriculum from the academic year 2021 – 2022.

Chairman – BOS

## **1. TITLE AND COMMENCEMENT:**

- a. These regulations shall be called “The Regulations Governing the Choice Based Credit System Semester Scheme with Multiple Entry and Exit Options in the Undergraduate, and Postgraduate Degree Programmes in the Faculty of Commerce.
- b. Regulations shall come into force from the Academic Year 2021-22.

## **2. SALIENT FEATURES OF THE FOUR YEARS MULTIDISCIPLINARY UNDERGRADUATE PROGRAMME WITH MULTIPLE ENTRY AND EXIT OPTIONS:**

- a) The program shall be structured in a semester mode with multiple exit options with Certification, Diploma and Basic Bachelor Degree at the completion of first, second and third years, respectively. The candidate who completes the four years Undergraduate Program, either in one stretch or through multiple exits and re-entries would get a Bachelor's degree with Honours
- b) The four year undergraduate Honours degree holders with research component and a suitable grade are eligible to enter the 'Doctoral (Ph.D.) Program' in a relevant discipline or to enter 'Two Semester Master's Degree programme with project work'.
- c) Candidates who wish to enter the Masters/Doctoral programme in a discipline other than the major discipline studied at the undergraduate programmes, have to take additional courses in the new discipline to meet the requirement or to make up the gap between the requirement and the courses already studied.
- d) There may be parallel five year integrated Master's degree programmes with exit options at the completion of third and fourth years, with the undergraduate basic degree and post-graduate diploma in a discipline, respectively.
- e) There may also be an integrated doctoral programme with exit option at the end of the first year with the Master's degree.
- f) The students who exit with Certification, Diploma and Basic Bachelor Degree shall be eligible to re-enter the programme at the exit level to complete the programme or to complete the next level.
- g) The Multidisciplinary Undergraduate Programme may help in the improvement of all the educational outcomes, with a flexible and imaginative curricular approach. The program provides for both breadth and depth in diverse areas of knowledge. A range of courses are offered with rigorous exposure to multiple disciplines and areas, while specializing in one or two areas. The programme fulfils knowledge, vocational, professional and skill requirements along-side humanities and arts, social, physical and life sciences, mathematics, sports etc.
- h) The curriculum combines conceptual knowledge with practical engagement and understanding that has relevant real world application through practical

laboratory work, field work, internships, workshops and research projects.

- i) A few courses are common to all students which contribute to the breadth of study and two areas of specialization in disciplinary areas provides for depth of study.
- j) The areas of specialization which the students are required to choose are either two disciplines/ subjects or a discipline called 'major' (e.g. History or Economics or Physics or Mathematics) and an area of additional discipline called 'minor' (e.g. Music or Sports or Geography). Students gain deep disciplinary knowledge through theory and practical experiences in their area of specialization (major). They gain a reasonable understanding of the area of additional study (minor) that they choose. Students can choose subject combinations across 'streams' (e.g. a student can choose a 'major' in physics and combine it with a 'minor' in history or Music or Sports). One of the disciplines can also be a vocational subject or Teacher Education.
- k) The students may study two disciplines at the same level or breadth up to the sixth semester and choose one of them for study in the fourth year to obtain the Honours degree in that discipline. A student who wishes to get dual honours degrees may repeat the fourth year of the program in the second discipline
- l) The students may choose one discipline and vocational subject or Teacher Education for their study in the undergraduate program. This will enable them to get an Honours degree either in the discipline or in the vocational subject/ Teacher Education or both, in the discipline and in the vocational subject/ Teacher Education.
- m) Skills shall be explicitly integrated, highly visible, taught in context, and have explicit assessment. The skills shall include abilities in language and communication, working in diverse teams, critical thinking, problem solving, data analysis and life skills.
- n) Students shall be given options to choose courses from a basket of courses which the institution is offering. There shall be no rigidity of combination of subjects.

The Four-Year Choice Based Credit System Semester Scheme makes the product of a University at par with the global practices in terms of academic standards and evaluation strategies. In the emerging scenario of Internationalization of Indian Higher Education, it is imperative that the Universities in India should follow this system so that the mobility of their products both within and across the geographical jurisdiction becomes possible.

### **The Salient Features of the Credit Based Semester Scheme:**

Each course shall carry certain number of credits. Credits normally represent the weightage of a course and are a function of teaching, learning and evaluation strategies such as the number of contact hours, the course content, teaching methodology, learning expectations, maximum marks etc. In the proposed programs, generally one hour of instructions per week in a semester is assigned one credit. In terms of evaluation, one



credit is generally equivalent to 25 marks in a semester. Thus a 3 or 4 credits course will be assessed for 100 marks, 2 credits courses are assessed for 50 marks and one credit course will be assessed for 25 marks. What matters for the calculation of Semester Grade Point Average (SGPA) or the Cumulative Grade Point Average (CGPA) is the percentage of marks secured in a course and the credits assigned to that course.

On this basis, generally, a three-year six-semester undergraduate program will have around 144 credits, and a four-year eight-semester honours degree program will have around 186 credits and a five-year ten-semester master's degree programme will have 228 credits.

### **The general features of the Credit Based Semester Scheme are**

- a. The relative importance of subjects of study are quantified in terms of credits.
- b. The subjects of study include core, elective, ability/skill enhancement courses
- c. The programme permits horizontal mobility in course selections.
- d. The students shall take part in co-curricular and extension activities.
- e. The declaration of result is based on Semester Grade Point Average (SGPA) or Cumulative Grade Point Average (CGPA) earned.

### **3. PROGRAMME:**

- Bachelor of Commerce, Bachelor of Commerce (Business Data Analytics) with Honour, B.Com (Hons) and Master of Commerce M.Com.

### **4. DURATION OF PROGRAMMES, CREDITS REQUIREMENTS AND OPTIONS:**

The undergraduate degree should be of either a three- or four-year duration, with multiple entry and exit options within this period, The four year multidisciplinary Bachelor's programme is the preferred option as it allows the opportunity to experience the full range of holistic and multidisciplinary education with a focus on major and minor subjects as per the student's preference. The four-year programme may also lead to a degree with Research, if the student completes a rigorous research project in the major area(s) of study.

Thus the undergraduate programmes shall extend over four academic years (Eight Semesters) with multiple entry and exit options. The students can exit after the completion of one academic year (Two semesters) with the Certificate in a discipline or a field; Diploma after the study of two academic years (Four Semesters) and Regular Bachelor Degree after the completion of three academic years (Six Semesters). The successful completion of Four Years undergraduate Programme would lead to Bachelor Degrees with Honours in a discipline/subject.

Each semester shall consist of at least 16 weeks of study with a minimum of 90 working days (excluding the time spent for the conduct of final examination of each semester).

## 5. THE CREDIT REQUIREMENTS ARE AS FOLLOWS.

EXIT WITH	Min. Credits Requirement*	NSQF Level
<b>Certificate</b> at the Successful Completion of First Year (Two Semesters) of Four Years Multidisciplinary UG Degree Programme	48	5
<b>A Diploma</b> at the Successful Completion of the Second Year (Four Semesters) of Four Years Multidisciplinary UG Degree Programme	96	6
<b>Basic Bachelor Degree</b> at the Successful Completion of the Third Year (Six Semesters) of Four Years Multidisciplinary Undergraduate Degree Programme	140	7
<b>Bachelor Degree with Honours</b> in a <b>Discipline</b> at the Successful Completion of the Four Years (Eight Semesters) Multidisciplinary Undergraduate Degree Programme	180	8

\*Details of credits are described later in this report

The students shall be required to earn at least fifty per cent of the credits from the Higher Education Institution (HEI) awarding the degree or diploma or certificate: Provided further that, the student shall be required to earn the required number of credits in the core subject area necessary for the award of the degree or Diploma or Certificate, as specified by the degree awarding HEI, in which the student is enrolled.

## 6. National Skills Qualifications Framework

The progressive curriculum proposed shall position knowledge and skills required on the continuum of novice problem solvers (at entry level of the program) to expert problem solvers (by the time of graduation):

At the end of first year	Ability to solve well defined problems
At the end of second year	Ability to solve broadly defined problems
At the end of third year	Ability to solve complex problems that are ill-structured requiring multi-disciplinary skills to solve them
During fourth year-	Experience of workplace problem solving in the form of Internship or Research Experience preparing for Higher Education or Entrepreneurship Experience

The Integrated Master's Degree Programmes shall extend over five academic years (Ten Semesters) with exit options with Regular Bachelor Degree after successful completion of three academic years (Six Semesters) of study and Bachelor Degree with Honours in a

discipline/ subject at the end of four academic years (Eight Semesters). Completion of five years of integrated Master's Degree Programme would lead to Master's degree in a subject.

**Credit Requirements:** The candidates shall complete courses equivalent to a minimum of

- 140 credits to become eligible for the Regular Bachelor Degree,
- 180 credits to become eligible for the Bachelor Degree with Honours
- 220 credits to become eligible for the Integrated Master's Degree.
  
- *Master's Degree Programmes will be of One Academic Year (Two Semesters) for the Four Years Honours Degree holders and*
- *Master's Degree Programmes will be of Two Academic Years (Four Semesters) for the three years basic or three years Honours Degree holders.*
- *Two Years Master's Degree Programmes will have exit option at the end of One Academic Year (Two Semesters) with the Post-graduate Diplomas in the respective disciplines/ subjects, provided they earn a minimum of 44 credits as follows:.*
  
- 44 Credits after the Bachelor Degree to become eligible for the PG Diploma
- 88 Credits after the Bachelor Degree to become eligible for the Master's Degree

It is optional to the candidate to exit or not, after two, four and six semesters of the undergraduate programme with Certificate, Diploma and with Regular Bachelor Degree, respectively. He/she will be eligible to re-join the programme at the exit level to complete either the diploma, degree or the honours degree. Further, all the candidates will be awarded Bachelor degrees on successful completion of three academic years (Six Semesters) of the undergraduate programmes.

A student will be allowed to enter/re-enter only at the Odd Semester and can only exit after the Even Semester. Re-entry at various levels as lateral entrants in academic programmes should be based on the earned credits and proficiency test records.

## **7. ACADEMIC BANK OF CREDITS (ABC)**

The Academic Bank of Credits (ABC), a national-level facility will promote the flexibility of the curriculum framework and interdisciplinary/multidisciplinary academic mobility of students across the Higher Education Institutions (HEIs) in the country with appropriate “credit transfer” mechanism. It is a mechanism to facilitate the students to choose their own learning path to attain a Degree/ Diploma/Certificate, working on the principle of multiple entry and exit as well as anytime, anywhere, and

any level of learning. ABC will enable the integration of multiple disciplines of higher learning leading to the desired learning outcomes including increased creativity, innovation, higher order thinking skills and critical analysis. ABC will provide significant autonomy to the students by providing an extensive choice of courses for a programme of study, flexibility in curriculum, novel and engaging course options across a number of higher education disciplines/ institutions.

## **8. ELIGIBILITY FOR ADMISSIONS:**

A candidate who has passed two years Pre-University Examination conducted by the Pre-University Education Board in the State of Karnataka or any other examination considered as equivalent thereto shall be eligible for admission to these programmes.

## **9. ELIGIBILITY FOR ADMISSION TO POST-GRADUATE PROGRAMMES:**

- a) **GENERAL:** Candidates who have passed the three year Bachelor's degree examination of the University or any other University considered as equivalent thereto, with the respective subject as optional / major / special / main subject, are eligible for admission to the two years Master's Degree programmes provided they have secured a minimum of CGPA of 4.0 or 40% marks in the aggregate of all the subjects and **CGPA of 5 or 50% marks (CGPA of 4.5 or 45% marks for SC/ST/Category I/Differently abled candidates/) marks in the major/cognate subject.**
- b) Candidates who have passed the four year Bachelor's honours degree examination of the University or any other University considered as equivalent thereto, with the respective subject as optional / major / special / main subject, are eligible for admission to the one year Master's Degree programmes provided they have secured a minimum CGPA of 5 or 50% marks (CGPA of 4.5 or 45% marks for SC/ST/Category I/Differently abled candidates/) marks in the subject.

The specific requirements and relaxations admissible for specific Master's Degree Programmes shall be as prescribed by the respective Boards of Studies, approved by the Academic Council and notified by the University.

## **10. MEDIUM OF INSTRUCTION:**

The medium of instruction and examination shall be English or Kannada.

## **11. SUBJECTS OF STUDY**

The Components of Curriculum for Four Years Multidisciplinary Undergraduate Programme: The Category of Courses and their Descriptions are given in the following Table and in

	CATEGORY OF COURSES	OBJECTIVE/OUTCOME
1	Languages	Languages provide the medium of fresh and free thinking, expression and clarity in thought and speech. It forms as a foundation for learning other courses. Helps fluent communication. In addition to English, a candidate shall opt for any of the languages studied at the Pre-University or equivalent level.
2	Ability Enhancement Courses	Ability enhancement courses are the generic skill courses which are basic and needed for all to pursue any career. These courses ensure progression across careers. They enable students to develop a deeper sense of commitment to oneself and to the society and nation largely.
3	Skill Enhancement/ Development Courses / Vocational courses	Skill Enhancement courses are to promote skills pertaining to a particular field of study. The purpose of these courses is to provide students life-skills in hands-on mode so as to increase their employability/ Self-employment. The objective is to integrate discipline related skills in a holistic manner with general education. These courses may be chosen from a pool of courses designed to provide value-based and/or skill-based knowledge. The University can suggest its own courses under this category based on its expertise, specialization, requirements, scope and need.
	Foundation/ Discipline based Introductory Courses	Foundation /Introductory courses bridge the gap for a student if he/she has not got a basic groundwork in a specific area of discipline. These courses will supplement in better understanding of how to integrate knowledge to application into a society.
4	Major Discipline Core Courses	A Major discipline is the field in which a student focuses during the course of his/her degree. A course in a discipline, which a candidate should compulsorily study as a core requirement is termed as a Core course. The core courses aim to cover the basics that a student is expected to imbibe in that particular discipline. They provide fundamental knowledge and expertise to produce competent, creative graduates with a strong scientific, technical and academic acumen. These courses are to be taught uniformly across all universities with minimum deviation. The purpose of fixing core courses is to ensure that all the institutions follow a minimum common curriculum so that each institution adheres to a common minimum standard <b>which makes credit transfer and mobility of students easier.</b>

	Major Discipline Elective Courses	<p>Elective Course is a course which can be chosen from a pool of courses and which may be very specific or specialized or advanced or supportive to the discipline/subject of study or which provides an extended scope or enables an exposure to some other discipline/ subject/domain or which nurtures the candidate's proficiency/skill.</p> <p>Elective courses offered under the main discipline are referred to as Discipline Specific Electives. These courses provide more depth within the discipline itself or within a component of the discipline and provide advanced knowledge and expertise in an area of the discipline.</p> <p>The institutions have freedom to have their own courses based on their expertise, specialization, requirements, scope and need. The elective courses may be of interdisciplinary nature</p>
	Minor Discipline Courses	<p>A Minor Discipline is a secondary specialization that one may choose to pursue in addition to a Major Discipline. They may be related areas of studies or two distinct areas of studies which are not interrelated at all.</p>
	Open or Generic Elective Courses	<p>Open or Generic Elective Courses are courses chosen from an unrelated discipline/ subject, with an intention to seek exposure beyond discipline/s of choice. The purpose of these is to offer the students the option to explore disciplines of interest beyond the choices they make in core and discipline specific elective courses.</p> <p><b>Note:</b> A core course offered in a discipline/subject may be treated as an elective by other discipline/subject and vice versa and such electives may also be referred to as Open or Generic Electives.</p>
5	Project work/ Dissertation/ Internship/ Entrepreneurship	<p>Project work is a special course involving application of knowledge in solving / analysing / exploring a real life situation / difficult problem/ data analysis. Project Work has the intention to provide research competencies at undergraduate level. It enables to acquire special/ advanced knowledge through support study/a project work. Candidates shall carry out project work on his/her own with an advisory support by a faculty member to produce a dissertation/ project report. Internship/ Entrepreneurship shall be an integral part of the Curriculum</p>

	Co-curricular and Extension Activities	These activities help in character building, spiritual growth, physical growth, etc. They facilitate development of various domains of mind and personality such as intellectual, emotional, social, moral and aesthetic developments. Creativity, Enthusiasm, and Positive thinking are some of the facets of personality development and the outcomes of these activities
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### 11.1 ABILITY ENHANCEMENT COURSES:

Ability Enhancement (AE) Courses can be divided into two categories:

- a) AE Compulsory Courses (AECC): The universities may have common curriculum for these papers. There may be one paper each at least in the first four semesters viz.
  - (1) Environmental Studies and
  - (2) Constitution of India.

In addition to these, two languages shall be studied in the first four semesters of the Undergraduate Programmes.

- b) Skill Enhancement Courses (SEC): The universities may offer from a common pool of papers listed by KSHCE/ National Regulatory Bodies such as UGC or GEC/ NHERC or the universities may frame some papers, in addition to the list suggested.

### 11.2 LANGUAGES:

Two languages are to be studied out of which one shall be Kannada and the other shall be either English or an Indian Language or other Foreign language:

English, Sanskrit, Hindi, Tamil, Telugu, Malayalam, Marathi, Konkani, Urdu, Persian, Arabic, German, French, Latin, Russian, Japanese and any other language prescribed/ approved by the university

- a) The Candidates shall study two languages in the first four semesters of the programs. The students who have studied Kannada at the school and/or Pre-University or equivalent level, shall opt Kannada as one of the languages and study it in the first four semesters of the programmes. In addition to Kannada, the students shall opt for another language from the languages offered in the university/college and study it in the first two semesters of the programmes. They may continue to study the same language in the second year or may choose different language in the second year. A candidate may opt for any language listed above even if the candidate has not studied that language at PUC or equivalent level.

- b) Students who have not studied Kannada at any level from school to Pre-University shall study Kannada as functional language in one of the first two semesters along with another language of their choice. They shall study any two languages of their choice in the remaining three semesters. They may change the languages every year. With the permission of the University, a candidate may opt for any other language listed above even if the candidate has not studied that language at PUC or equivalent level
- c) Speech/hearing/visually impaired/mentally challenged and study disabled students are exempted from studying one of the languages prescribed under para 8.2 above.

### 11.3 A) SKILL ENHANCEMENT COURSES (COMMON FOR ALL PROGRAMMES):

- i. Any four skill enhancement/development courses are to be studied in the first six semesters, one per semester as prescribed by the concerned faculty and approved by the Academic Council. The courses may include the following:

SEM.	B.COM./BBA/BMS/BHM
I/II	Digital Fluency/ Creativity and Innovation
III/IV	Artificial Intelligence/ Critical thinking & problem solving
V	Cyber Security/ Entrepreneurship
VI	Professional Communication / German / French/

- i. One soft core course or allied subject each in the seventh and eight semesters of the honours programme and the integrated Master's degree programme or in the first and second semesters of the post-graduate programmes, and one open elective in the ninth semester of the integrated master's programmes are to be studied as prescribed by the respective Board of studies and approved by the Academic council. The soft core courses may include research methodology course, one of the foreign languages such as German, French etc. or any other course prescribed by the university from time to time.

### 11.5 VOCATIONAL SUBJECTS:

Advertising, Computer Applications, Electronic Equipment Maintenance, Entrepreneurship Development, Instrumentation, Office/Home Management and Secretarial Practice, Sales Promotion and Management, Tax Procedure and Practice, Tourism and Travel Management and any other subjects introduced from time to time.

### 11.6 CO-CURRICULAR AND EXTENSION ACTIVITIES

A student shall opt for two of the following activities offered in the college, in each of the first six semesters of the undergraduate programmes. The activity carries a credit each for each of the activities and will be internally assessed for 50 marks.



- a. Physical Education or Activities related to Yoga/ Sports and Games
- b. N.S.S. /N.C.C/ Ranger and Rovers/Red cross
- c. Field studies / Industry Implant Training
- d. Involvement in campus publication or other publications
- e. Publication of articles in newspapers, magazines
- f. Community work such as promotion of values of National Integration, Environment, Human rights and duties, Peace, Civic sense etc.
- g. A Small project work concerning the achievements of India in different fields
- h. Evolution of study groups/seminar circles on Indian thoughts and ideas
- i. Activity exploring different aspects of Indian civilizations
- j. Involvement in popularization programmes such as scientific temper
- k. Innovative compositions and creations in music, performing and visual arts etc.
- l. Any other activities such as Cultural Activities as prescribed by the University.

Evaluation of Co-curricular and Extension Activities shall be as per the procedure evolved by the university from time to time.

## **12. ATTENDANCE AND CHANGE OF SUBJECTS:**

- 12.1 A candidate shall be considered to have satisfied the requirement of attendance for a semester if he/she attends not less than 75% of the number of classes actually held up to the end of the semester in each of the subjects. There shall be no minimum attendance requirement for the Co-curricular and extension activities.
- 12.2 An option to change a language/subject may be exercised only once within four weeks from the date of commencement of the/III Semester on payment of fee prescribed.
- 12.3 Whenever a change in a subject is permitted, the attendance in the changed subject shall be calculated by taking into consideration the attendance in the previous subject studied
- 12.4 If a candidate represents his/her institution / University/ Karnataka State/ Nation in Sports /NCC / NSS / Cultural or any officially sponsored activities he/she may be permitted to claim attendance for actual number of days participated, based on the recommendation of the Head of the Institution concerned. If a candidate is selected to participate in national level events such as Republic Day Parade etc., he/she may be permitted to claim attendance for actual number of days participated based on the recommendation of the head of the Institution concerned.
- 12.5 A candidate who does not satisfy the requirement of attendance in one or more courses/ subjects shall not be permitted to take the University examination of these courses/ subjects and the candidate shall seek re-admission to those courses/ subjects in a subsequent year.

### **13. COURSE PATTERNS AND SCHEMES OF EXAMINATIONS**

The details of the Course Patterns (hours of instructions per week) and the Schemes of Examinations of the different degree programmes are given in the program matrix. The Syllabi of the courses shall be as prescribed by the University.

### **14. PEDAGOGY ACROSS ALL PROGRAMMES**

Effective learning requires appropriate curriculum, an apt pedagogy, continuous formative assessment and adequate student support. The intention is to contextualize curriculum through meaningful pedagogical practices, which determine learning experiences directly influencing learning outcomes. Active, cooperative, collaborative and experiential learning pedagogies are some of the examples. Use of technology in creating learning environment that connects learners with content, peers and instructors all through the learning process respecting the pace of learners is need of the hour.

- a. Classroom processes must encourage rigorous thinking, reading and writing, debate, discussion, peer learning and self-learning.
- b. The emphasis is on critical thinking and challenge to current subject orthodoxy and develop innovative solutions. Curricular content must be presented in ways that invite questioning and not as a body of ready knowledge to be assimilated or reproduced. Faculty should be facilitators of questioning and not authorities on knowledge.
- c. Classroom pedagogy should focus on the 'how' of things i.e. the application of theory and ideas. All courses including social sciences and humanities should design projects and practicums to enable students get relevant hands-on experiences.
- d. Learning must be situated in the Indian context to ensure that there is no sense of alienation from their context, country and culture.
- e. Classroom processes must address issues of inclusion and diversity since students are likely to be from diverse cultural, linguistic, socio-economic and intellectual backgrounds.
- f. Cooperative and peer-supported activities must be part of empowering students to take charge of their own learning.
- g. Faculty will have the freedom to identify and use the pedagogical approach that is best suited to a particular course and student.
- h. Pedagogies like PBL (Problem / Project Based Learning), Service Learning be brought into practice as part of curriculum. Experiential learning in the form of internship with a specified number of credits is to be made mandatory.

Blended learning (BL) mode is to be used to help learners develop 21st century skills along with the effective learning and skill development related to the subject-domains. BL should be carefully implemented and should not be replacing classroom time as a privilege. Every institute should strive to be a model institute to demonstrate a successful implementation of BL in the higher education of our country.

## 15. CONTINUOUS FORMATIVE EVALUATION/ INTERNAL ASSESSMENT:

Total marks for each course shall be based on continuous assessments and semester end examinations. As per the decision taken at the Karnataka State Higher Education Council, it is necessary to have uniform pattern of 40 : 60 for IA and Semester End theory examinations respectively and 50 : 50 for IA and Semester End practical examinations respectively, in all the Universities, their Affiliated and Autonomous Colleges.

<b>TOTAL MARKS FOR EACH COURSE</b>	<b>:</b>	<b>100%</b>
Continuous assessment (C1)	:	20% marks
Continuous assessment (C2)	:	20% marks
Semester End Examination (C3)	:	60% marks.

## 16. EVALUATION PROCESS OF IA MARKS SHALL BE AS FOLLOWS.

- a. The first component (C1) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment and score process should be completed after completing 50% of syllabus of the course/s and within 45 working days of semester program.
- b. The second component (C2) of assessment is for 20% marks. This shall be based on test, assignment, seminar, case study, field work, internship / industrial practicum / project work etc. This assessment and score process should be based on completion of remaining 50 percent of syllabus of the courses of the semester.
- c. During the 17th – 19th week of the semester, a semester end examination shall be conducted by the University for each course. This forms the third and final component of assessment (C3) and the maximum marks for the final component will be 60%.
- d. In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the Program Coordinator / Principal. The Program Coordinator / Principal in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher but before commencement of the concerned semester end examinations.
- e. For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their own answer scripts (A4 size), graph sheets etc., required for such tests/assignments and these be stamped by the concerned department using their department seal at the time of conducting tests / assignment / work etc.
- f. The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under.

### Outline for continuous assessment activities for C1 and C2 **Activities**

Activities	C1	C2	Total Marks
Session Test	10% marks	10% marks	20
Seminars/Presentations/Activity	10% marks	-	10
Case study /Assignment / Field work / Project work etc.	-	10% marks	10
Total	20% marks	20% marks	40

- g. For practical course of full credits, Seminar shall not be compulsory. In its place, marks shall be awarded for Practical Record Maintenance.(the ratio is 50% : 50%)
- h. Conduct of Seminar, Case study / Assignment, etc. can be either in C1 or in C2 component at the convenience of the concerned teacher.
- i. The teachers concerned shall conduct test / seminar / case study, etc. The students should be informed about the modalities well in advance. The evaluated courses / assignments during component I (C1) and component II (C2) of assessment are immediately provided to the candidates after obtaining acknowledgement in the register by the concerned teachers(s) and maintained by the Chairman in the case of a University Post-Graduate Department and the Principal / Director in the case of affiliated institutions. Before commencement of the semester end examination, the evaluated test, assignment etc. of C1 and C2 shall be obtained back to maintain them till the announcement of the results of the examination of the concerned semester.
- j. The marks of the internal assessment shall be published on the notice board of the department / college for information of the students.
- k. The Internal assessment marks shall be communicated to the Registrar (Evaluation) at least 10 days before the commencement of the University examinations and the Registrar (E) shall have access to the records of such periodical assessments.
- l. There shall be no minimum in respect of internal assessment marks.
- m. Internal assessment marks may be recorded separately. A candidate who has failed or rejected the result, shall retain the internal assessment marks.

### **17. MINIMUM FOR A PASS:**

1. No candidate shall be declared to have passed the Semester Examination as the case may be under each course/paper unless he/she obtains not less than 35% marks in written examination / practical examination and 40% marks in the aggregate of written / practical examination and internal assessment put together in each of the courses and 40% marks (including IA) in Project work and viva wherever prescribed.

2. A candidate shall be declared to have passed the program if he/she secures at least 40% of marks or a CGPA of 4.0 (Course Alpha-Sign Grade P) in the aggregate of both internal assessment and semester end examination marks put together in each unit such as theory papers / practical / field work / internship / project work / dissertation / viva-voce, provided the candidate has secured at least 40% of marks in the semester end examinations in each unit.
3. The candidates who pass all the semester examinations in the first attempts are eligible for ranks provided they secure at least CGPA of 6.00 (Alpha-Sign Grade B+).
4. A candidate who passes the semester examinations in parts is eligible for only Class, CGPA and Alpha-Sign Grade but not for ranking.
5. The results of the candidates who have passed the last semester examination but not passed the lower semester examinations shall be declared as NCL (Not Completed the Lower Semester Examinations). Such candidates shall be eligible for the degree only after completion of all the lower semester examinations.
6. If a candidate fails in a subject, either in theory or in practical's, he/she shall appear for that subject only at any subsequent regular examination, as prescribed for completing the programme. He/she must obtain the minimum marks for a pass in that subject (theory and practical's, separately) as stated above

## **18. CARRY OVER:**

Candidates who fail in lower semester examinations may go to the higher semesters and take the lower semester examinations. (A candidate who fails in a lower semester examination may go to the higher semester. However, No candidate shall be permitted to take the a) fifth semester examination unless he/she passes all courses/papers of the first semester examination and b) no candidate shall be permitted to take the sixth semester examination unless he/she passes all courses/papers of the first and second semester examinations. Similarly, no candidate shall be permitted to take the c) seventh semester examination unless he/she passes all papers of the first three semester examinations, and d) no candidate shall be permitted to take the 8th semester examination unless he/she passes all papers of the first four semesters examinations).

## **19. CLASSIFICATION OF SUCCESSFUL CANDIDATES:**

An alpha-sign grade, the eight point grading system, as described below may be adopted. The declaration of result is based on the Semester Grade Point Average (SGPA) earned towards the end of each semester or the Cumulative Grade Point Average (CGPA) earned towards the completion of all the eight semesters of the programme and the corresponding overall alpha-sign grades. If some candidates exit at the completion of first, second or third year of the four years Undergraduate Programmes, with Certificate, Diploma or the Basic Degree, respectively, then the results of successful candidates at

the end of second, fourth or sixth semesters shall also be classified on the basis of the Cumulative Grade Point Average (CGPA) obtained in the two, four, six or eight semesters, respectively. For award of

- Certificate in Arts/ Science/ Commerce
- Diploma in Arts/ Science/ Commerce
- Bachelor's Degree in Arts/ Science/ Commerce
- Bachelor's Degree with Honours in a Discipline/Subject

In addition to the above, successful candidates at the end of tenth semester of the integrated Master's Degree Programmes, shall also be classified on the basis of CGPA obtained in the ten semesters of the Programmes. Likewise, the successful candidates of one year or two semester's Master's Degree Programmes are also classified on the basis of CGPA of two semesters of the Master's Degree Programmes,

**TABLE II: FINAL RESULT / GRADES DESCRIPTION**

Semester GPA/ Program CGPA	Alpha-Sign / Letter Grade	Semester/Program % of Marks	Result / Class Description
9.00-10.00	<b>O (Outstanding)</b>	90.0-100	Outstanding
8.00-<9.00	<b>A+ (Excellent)</b>	80.0-<90.0	First Class Exemplary
7.00-<8.00	<b>A (Very Good)</b>	70.0-<80.0	First Class Distinction
6.00-<7.00	<b>B+ (Good)</b>	60.0-<70.0	First Class
5.50-<6.00	<b>B (Above Average)</b>	55.0-<60.0	High Second Class
5.00-<5.50	<b>C (Average)</b>	50.0-<55.0	Second Class
4.00-<5.00	<b>P (Pass)</b>	40.0-<50.0	Pass Class
Below 4.00	<b>F (Fail)</b>	Below 40	Fail/Reappear
Ab (Absent)	-	Absent	-

The Semester Grade Point Average (SGPA) in a Semester and the CGPA at the end of each year may be calculated as described in Appendix C:

## 20. REJECTION OF RESULTS:

- A candidate may be permitted to reject result of the whole examination of any semester. Rejection of result course/paper wise or subject wise shall not be permitted.
- The candidate who has rejected the result shall appear for the immediately following examination.
- The rejection shall be exercised only once in each semester and the rejection once exercised shall not be revoked.
- Application for rejection of results along with the payment of the prescribed fee shall be submitted to the Registrar (Evaluation) through the College of study together with the original statement of marks within 30 days from the date of publication of the result.
- A candidate who rejects the result is eligible for only SGPA/CGPA or Class and not for ranking.

## 21. IMPROVEMENT OF RESULTS

- 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.
- The reappearance may be permitted during the period N+2 years (where N refers to duration of the program) without restricting it to the subsequent examination only.
- The student may be permitted to apply for improvement examination 45 days in advance of the pertinent semester examination whenever held.

- d. If a 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 earlier result.
- e. A candidate who has appeared for improvement examination is eligible for class/CGPA only and not for ranking.
- f. Internal assessment (IA) marks shall be shown separately. A candidate who wants to improve the result or who, having failed, takes the examination again or who has appeared for improvement shall retain the IA marks already obtained.
- g. 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.

## **22. TRANSFER OF ADMISSION:**

Transfer of admissions are permissible only for odd semesters for students of other universities and within the University.

### **22.1 CONDITIONS FOR TRANSFER OF ADMISSION OF STUDENTS WITHIN THE UNIVERSITY.**

- a. His/her transfer admission shall be within the intake permitted to the college.
- b. Availability of same combination of subjects studied in the previous college.
- c. He/she shall fulfil the attendance requirements as per the University Regulation.
- d. He/she shall complete the programme as per the regulation governing the maximum duration of completing the programme.

### **22.2 CONDITIONS FOR TRANSFER ADMISSION OF STUDENTS OF OTHER UNIVERSITIES.**

- a. A Candidate migrating from any other University may be permitted to join odd semester of the degree programme provided he/she has passed all the subjects of previous semesters / years as the case may be. Such candidates must satisfy all other conditions of eligibility stipulated in the regulations of the University.
- b. His/her transfer admission shall be within the intake permitted to the college.
- c. He/she shall fulfil the attendance requirements as per the University Regulation.
- d. The candidate who is migrating from other Universities is eligible for overall SGPA/CGPA or Class and not for ranking.
- e. He/she shall complete the programme as per the regulation governing the maximum duration of completing the programme as per this regulation.



### **23. POWER TO REMOVE DIFFICULTIES**

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. Every order made under this rule shall be subject to ratification by the Appropriate University Authorities.

### **24. REPEAL AND SAVINGS:**

The existing Regulations governing three years Bachelor degree programmes in the faculties of Arts, Science and Commerce shall stand repealed. However, the above Regulations shall continue to be in force for the students who have been admitted to the course before the enforcement of this regulation.

**TEMPLATE FOR IAT**  
**INTERNAL ASSESSMENT TEST**  
**BACHELOR OF COMMERCE - B.COM - DATA ANALYTICS**

**Course Code:**

**Name of the Course:**

Duration: 1 Hour

Total Marks: 20

**SECTION-A**  
(Based on the Remembering)

I. Answer Any Two of the following questions. Each carries Two Marks.

(2 x 2= 4)

- 1.
- 2.
- 3.

**SECTION- B**  
(Understanding and Applying)

II. Answer Any Two of the following questions. Each carries Eight marks.

(2 x8= 16)

- 4.
- 5.
- 6.

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**APPEARANCE FOR THE EXAMINATION**

A candidate shall be considered to have appeared for the examination only if he/ she has submitted the prescribed application for the examination along with the required fees to the University.

**SEMESTER END EXAMINATION - TEMPLATE**  
**BACHELOR OF COMMERCE - B.COM - DATA ANALYTICS**

**Course Code:**

**Name of the Course:**

**Duration: 2.00 Hours**

**Total Marks: 60**

**SECTION-A**  
**(Conceptual Questions)**

**I.** Answer any Five of the following questions. Each question carries Two Marks. (5 x 2= 10)

- a.
- b.
- c.
- d.
- e.
- f.
- g.

**SECTION- B**  
**(Application Questions)**

Answer any Four of the following question. Each question carries Five Marks. (4 x5= 20)

- 2.
- 3.
- 4.
- 5.
- 6.

**SECTION- C**  
**(Analyses and Understanding Questions)**

Answer Any Two of the following question. Each question carries Twelve Marks. (2 x12= 24)

- 7.
- 8.
- 9.

**SECTION- D**  
**(Skill Development Questions)**

Answer Any One of the following question, carries Six Marks. (1 x6= 06)

- 10.
- 11.

**NEW EDUCATION POLICY  
INITIATIVES  
CURRICULUM FRAMEWORK FOR  
FOUR-YEAR UNDER GRADUATE  
PROGRAM IN COMMERCE**

**Bachelor of Commerce,  
Bachelor of Commerce ( Data Analytics)  
with Honour,  
B.Com (Hons) and Master of Commerce  
M.Com.**

## B.COM – PROGRAM

Regulations for Bachelor of Commerce, Bachelor of Commerce (Data Analytics) with Honour,  
B.Com (Hons) and Master of Commerce M.Com.

### SEMESTER – I

SL NO	Course Code	Title of the Course	Category of Course	Teaching Hours per Week (L+T+P)	SEE	CIE	Total Marks	Credits
1	Lang.1.1	Language -I	AECC	3+1+0	60	40	100	3
2	Lang.1.2	Language -II	AECC	3+1+0	60	40	100	3
3	B.Com. DA.1.1	Financial Accounting	DSC -1	3+0+2	60	40	100	4
4	B.Com.DA.1.2	Fundamentals of MS-Excel	DSC -2	4+0+0	60	40	100	4
5	B.Com.DA.1.3	Business Statistics – 1	DSC -3	4+0+0	60	40	100	4
6	B.Com.DA.1.4	Digital Fluency/ Basics of Computer	SEC -SB	1+0+2	25	25	50	2
7	B.Com.DA.1.5	<b>Any one of the following:</b> a. Accounting for Everyone b. Personal Finance and Planning	OEC -1	3+0+0	60	40	100	3
8	B.Com.DA.1.6	Yoga	SEC -VB	0+0+2	-	25	25	1
9	B.Com.DA.1.7	Health & Wellness	SEC -VB	0+0+2	-	25	25	1
<b>SUB TOTAL (A)</b>					<b>385</b>	<b>315</b>	<b>700</b>	<b>25</b>

### SEMESTER – II

SL NO	Course Code	Title of the Course	Category of Course	Teaching Hours per Week (L+T+P)	SEE	CIE	Total Marks	Credits
10	Lang.2.1	Language -I	AECC	3+1+0	60	40	100	3
11	Lang.2.2	Language – II	AECC	3+1+0	60	40	100	3
12	B.Com. DA.2.1	Advanced Financial Accounting	DSC -4	3+0+2	60	40	100	4
13	B.Com.DA.2.2	Business Statistics – 2	DSC -5	3+0+2	60	40	100	4
14	B.Com.DA.2.3	Fundamentals of Database Management System and SQL	DSC -6	4+0+0	60	40	100	4
15	B.Com.DA.2.4	Environmental Studies	AECC	2+0+0	25	25	50	2
16	B.Com.DA.2.5	<b>Any one of the following:</b> a. Investing in stock markets b. Innovation Management	OE-2	3+0+0	60	40	100	3
17	B.Com.DA.2.6	Sports	SEC -VB	0+0+2	-	25	25	1
18	B.Com.DA.2.7	NCC/NSS/R&R(S&G)/ Cultural	SEC -VB	0+0+2	-	25	25	1
<b>SUB TOTAL (B)</b>					<b>385</b>	<b>315</b>	<b>700</b>	<b>25</b>

**EXIT OPTION WITH CERTIFICATION –  
WITH ABILITY TO SOLVE WELL DEFINED PROBLEMS**

### SEMESTER – III

SL NO	Course Code	Title of the Course	Category of Course	Teaching Hours per Week (L+T+P)	SEE	CIE	Total Marks	Credits
19	Lang.3.1	Language -I	AECC	3+1+0	60	40	100	3
20	Lang.3.2	Language – II	AECC	3+1+0	60	40	100	3
21	B.Com.DA.3.1	Corporate Accounting	DSC– 7	3+0+2	60	40	100	4
22	B.Com.DA.3.2	Advanced - Excel (P=Practical Exam)	DSC– 8	3+0+2	60	40	100	4
23	B.Com.DA.3.3	Computer Fundamental & C – Programming ( P = (P=Practical Exam)	DSC– 9	3+0+2	60	40	100	4
24	B.Com.DA.3.4	Artificial Intelligence	SEC	1+0+2	25	25	50	2
25	B.Com.DA.3.5	<b>Any one of the following:</b> a. Project management b. Good Governance c. Advertising Skills d. Entrepreneurship Skills	OEC-3	3+0+0	60	40	100	3
26	B.Com.DA.3.6	Sports	SEC-VB	0+0+2	-	25	25	1
27	B.Com.DA.3.7	NCC/NSS/R&R(S&G)/ Cultural	SEC-VB	0+0+2	-	25	25	1
<b>SUB TOTAL (C)</b>					<b>385</b>	<b>315</b>	<b>700</b>	<b>25</b>

### SEMESTER – IV

SL NO	Course Code	Title of the Course	Category of Course	Teaching Hours per Week (L+T+P)	SEE	CIE	Total Marks	Credits
28	Lang.4.1	Language -I	AECC	3+1+0	60	40	100	3
29	Lang.4.2	Language – II	AECC	3+1+0	60	40	100	3
30	B.Com.DA.4.1	Advanced Corporate Accounting	DSC– 10	3+0+2	60	40	100	4
31	B.Com.DA.4.2	Introduction to R ( P = Practical Exam)	DSC– 11	3+0+2	60	40	100	4
32	B.Com.DA.4.3	Data Science life cycle	DSC– 12	4+0+0	60	40	100	4
33	B.Com.DA.4.4	Constitution of India	AECC	2+0+0	25	25	50	2
34	B.Com.DA.4.5	<b>Any one of the following:</b> a. Risk Management b. Digital Marketing c. Creativity & Innovation d. Sustainable Development	OEC-4	3+0+0	60	40	100	3
35	B.Com.DA.4.6	Sports	SEC-VB	0+0+2	-	25	25	1
36	B.Com.DA.4.7	NCC/NSS/R&R(S&G)/ Cultural	SEC-VB	0+0+2	-	25	25	1
<b>SUB TOTAL (D)</b>					<b>385</b>	<b>315</b>	<b>700</b>	<b>25</b>

EXIT OPTION WITH DIPLOMA – ABILITY TO SOLVE BROADLY DEFINED PROBLEMS.

## SEMESTER – V

SL NO	Course Code	Title of the Course	Category of Course	Teaching Hours per Week (L+T+P)	SEE	CIE	Total Marks	Credits
37	B.Com.DA .5.1	Financial Analytics in Business	DSC-13	3+0+2	60	40	100	4
38	B.Com.DA .5.2	Application of Python in Business	DSC-14	3+0+2	60	40	100	4
39	B.Com.DA .5.3	Tableau - Business Intelligence	DSC-15	4+0+0	60	40	100	4
40	B.Com.DA .5.4	One Course from the Selected Elective Group – Paper – 1	DSE-1	3+0+2	60	40	100	3
41	B.Com.DA .5.5	Basics of Spread Sheet Modelling OR Report on Study of Start -ups and Innovative Business Ideas	VOG1	2+0+2	60	40	100	3
42	B.Com.DA .5.6	Internship	Intern -1	0+0+2	-	50	50	2
43	B.Com.DA .5.7	Cyber Security or some other SEC	SEC	1+0+2	25	25	50	2
44	B.Com.DA .5.8	Sports	SEC– VB	0+0+2	-	25	25	1
45	B.Com.DA .5.9	NCC/NSS/R&R(S&G)/ Cultural	SEC– VB	0+0+2	-	25	25	1
<b>SUB TOTAL (F)</b>					<b>325</b>	<b>325</b>	<b>650</b>	<b>24</b>

## SEMESTER – VI

SL NO	Course Code	Title of the Course	Category of Course	Teaching Hours per Week (L+T+P)	SEE	CIE	Total Marks	Credits
46	B.Com. DA6.1	Management Accounting	DSC-16	3+0+2	60	40	100	4
47	B.Com. DA6.2	Data Warehousing & Data Mining	DSC-17	3+0+2	60	40	100	4
48	B.Com. DA6.3	Web & Social Intelligence	DSC-18	3+0+2	60	40	100	4
49	B.Com. DA6.4	One Course from the Selected Elective Group – Paper – 2	DSE-2	3+0+2	60	40	100	3
50	B.Com. DA6.5	Basics of Spread Sheet Modelling OR Report on Study of Start -ups and Innovative Business Ideas	VOC-2	2+0+2	60	40	100	3
51	B.Com. DA6.6	Internship	Intern -2	0+0+2	-	50	50	2
52	B.Com. DA6.7	Professional Communication	SEC- SB	1+0+2	25	25	50	2
53	B.Com. DA6.8	Sports	SEC– VB	0+0+2	-	25	25	1
54	B.Com. DA6.9	NCC/NSS/R&R(S&G)/ Cultural	SEC– VB	0+0+2	-	25	25	1
<b>SUB TOTAL (F)</b>					<b>325</b>	<b>325</b>	<b>650</b>	<b>24</b>
<b>GRAND TOTAL - DEGREE</b>					<b>2190</b>	<b>1910</b>	<b>4100</b>	<b>148</b>

Students have to select dual electives out of the list of electives given in Fifth and Sixth Semester. Electives selected in the fifth semester should be continued in the sixth semester. However they can change the electives in the seventh semester. The electives selected in the seventh semester will continue in the eighth semester.

EXIT OPTION WITH BACHELOR DEGREE -ABILITY TO SOLVE COMPLEX PROBLEMS THAT ARE ILL-STRUCTURED REQUIRING MULTI-DISCIPLINARY SKILLS TO SOLVE THEM.

## SEMESTER – VII

SL NO	Course Code	Title of the Course	Category of Course	Teaching Hours per Week (L+T+P)	SEE	CIE	Total Marks	Credits
55	B.Com.DA. 7.1	International Financial Reporting Standards	DSC-19	4+0+0	60	40	100	4
56	B.Com.DA.7.2	Advanced Business Statistics	DSC-20	3+0+2	60	40	100	4
57	B.Com.DA.7.3	Cloud Computing & Internet of things	DSC-21	3+0+2	60	40	100	4
58	B.Com.DA.7.4	One Course from the Selected Elective Group-PIII	DSE-3	3+1+0	60	40	100	3
59	B.Com.DA.7.5	ERP Applications	VOC-3	2+0+2	60	40	100	3
60	B.Com.DA.7.6	Research Methodology	RM-1	3+0+0	60	40	100	3
<b>SUB TOTAL (G)</b>					<b>360</b>	<b>240</b>	<b>600</b>	<b>21</b>

## SEMESTER – VIII

SL NO	Course Code	Title of the Course	Category of Course	Teaching Hours per Week (L+T+P)	SEE	CIE	Total Marks	Credits
61	B.Com.DA.8.1	Marketing Analytics	DSC-22	3+0+2	60	40	100	4
62	B.Com.DA.8.2	Data Warehousing & Data Mining	DSC-23	4+0+0	60	40	100	4
63	B.Com.DA.8.3	Business Analytics OR Data Analysis & Decision Sciences	DSC-24	3+0+2	60	40	100	4
64	B.Com.DA.8.4	Managing Digital Platforms	VOC-4	2+0+2	60	40	100	3
65	B.Com.DA.8.5 <b>Or</b>	Research Projects/Internship with Viva – voce <b>OR</b>	-	-	120	80	200	6
65	B.Com.DA.8.5	Elective Paper (Two Courses from the Selected Elective Group-Paper IV & V)	DSE-4	2+0+2 (P) 3+0+0 (T)	60	40	100	3*
66	B.Com.DA.8.6		DSE-5	2+0+2 (P) 3+0+0 (T)	60	40	100	3*
<b>SUB TOTAL (H )</b>					<b>360</b>	<b>240</b>	<b>600</b>	<b>21</b>
<b>GRAND TOTAL OF (A+B+C+D+E+F+G+H)</b>					<b>2910</b>	<b>2390</b>	<b>5300</b>	<b>190</b>

\*In lieu of the research Project, two additional elective papers/ Internship may be offered



Award of Bachelor of Commerce Degree with Honours, (With the completion of courses equal to a minimum of 180 credits)

**BACHELOR DEGREE WITH HONORS – EXPERIENCE OF WORKPLACE PROBLEM SOLVING IN THE FORM OF INTERNSHIP OR RESEARCH EXPERIENCE PREPARING FOR HIGHER EDUCATION OR ENTREPRENEURSHIP EXPERIENCE.**

**NOTES:**

- One Hour of Lecture is equal to 1 Credit.
- One Hour of Tutorial is equal to 1 Credit (Except Languages).
- Two Hours of Practical is equal to 1 Credit

**Acronyms Expanded**

AECC	: Ability Enhancement Compulsory Course
DSC ©	: Discipline Specific Core (Course)
SEC-SB/VB	: Skill Enhancement Course-Skill Based/Value Based
OEC	: Open Elective Course
DSE	: Discipline Specific Elective
SEE	: Semester End Examination
CIE	: Continuous Internal Evaluation
L+T+P	: Lecture+Tutorial+Practical(s)

Note: Practical Classes may be conducted in the Business Lab or in Computer Lab or in Class room depending on the requirement. One batch of students should not exceed half (i.e., 30 or less than 30 students) of the number of students in each class/section. 2 Hours of Practical Class is equal to 1 Hour of Teaching, however, whenever it is conducted for the entire class (i.e., more than 30 students)

2 Hours of Practical Class is equal to 2 Hours of Teaching.

## ELECTIVE GROUPS AND COURSES:

<b>Discipline Specific Electives–V Semester</b>						
<b>Sl. No</b>	<b>Accounting</b>	<b>Finance</b>	<b>Banking &amp; Insurance</b>	<b>Marketing</b>	<b>Human Resources</b>	<b>IT</b>
1	Ind.AS and IFRS	Financial Markets & Intermediaries	Indian Banking System	Retail Management	Human Resources Development	Financial Analytics

<b>Discipline Specific Electives–VI Semester</b>						
1	e-Business& Accounting	Investment Management	Banking Innovations & Technology	Customer Relationship Marketing	Cultural Diversity at Work Place	HR Analytics
2	Accounting for Services Sector	Global Financial System & Practices	Principles & Practice of Insurance	Digital Marketing	NewAge Leadership Skills	Marketing Analytics
3	Accounting for Government and Local Bodies	Risk Management	Insurance Law and Regulations	Consumer Behavior& Marketing Research	Labour Laws& Practice	ICT Application in Business

<b>Discipline Specific Electives–VII Semester</b>						
1	Forensic Accounting	Corporate Structuring	Banking Products & Services	Logistics& Supply Chain Management	Strategic HRM	DBMS & SQL

<b>Discipline Specific Electives–VII Semester</b>						
1	Innovations in Accounting	Corporate Valuation	e-Banking	E - Commerce	International HRM	Web & Social Intelligence
2	Accounting Information System	Analysis of Financial Statements	Insurance Planning& Management	Services Marketing	Employee Welfare& Social Security	Artificial Intelligence & Machine Learning in Business

NOTE: Student shall continue with the same elective group in V and VI semesters, however, he/she may change the elective group in VII semester, but shall continue in the same group in VIII semester.

**Name of the Program:** Bachelor of Commerce (Data Analytics)

**Course Code:** B.Com. 1.1

**NAME OF THE COURSE: FINANCIAL ACCOUNTING**

COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS
<b>Pedagogy:</b> Classrooms lecture, tutorials, Group discussion, Seminar, Case studies & field work etc.,		
<b>Course Outcomes:</b> On successful completion of the course, the Students will be able to		
a) Understand the theoretical framework of accounting as well accounting standards.		
b) Demonstrate the preparation of financial statement of manufacturing and non-manufacturing entities of sole proprietors.		
c) Exercise the accounting treatments for consignment transactions & events in the books of consignor and consignee.		
d) Understand the accounting treatment for royalty transactions & articulate the Royalty agreements.		
e) Outline the emerging trends in the field of accounting.		
<b>SYLLABUS:</b>	<b>HOURS</b>	
<b>Module- 1: Theoretical Framework of Accounting</b>	<b>10</b>	
Introduction-Meaning and Scope of Accounting- Objectives of Accounting-Importance of Accounting-Function of Accounting-Terminologies used in accounting- Users of Accounting Information-Accounting Process-Basis of Accounting: Cash basis and Accrual Basis-Branches of Accounting- Principles of Accounting-Concepts and Conventions- Accounting Standards-Indian Accounting Standards (IND AS).		
<b>Module -2: Financial Statements of Sole Proprietors</b>	<b>12</b>	
Introduction-Meaning of Sole Proprietor-Meaning of Financial Statements - Manufacturing and non-manufacturing Entities: Financial statements of Manufacturing Concerns -Statement of Manufacture, Statement of Trading and Profit & Loss -Balance Sheet. Financial statement of Non-manufacturing Concerns, Statement of Profit and Loss and Balance sheet.		
<b>Module.3: Consignment Accounts</b>	<b>12</b>	
Introduction-Meaning of Consignment-Consignment vs Sales-Pro-forma Invoice-Accounts Sales-Types Commission-Accounting for Consignment Transactions & Events in the books of Consignor and Consignee - Treatment of Normal & Abnormal Loss. -Valuation of Closing Stock-Goods sent at Cost Price and Invoice Price- problem.		
<b>Module.4: Royalty Accounts</b>	<b>14</b>	
Introduction-Meaning- Terms used in royalty agreement: Lessee, Lessor, Minimum Rent – Short Workings –Recoupment of Short Working–Accounting Treatment in the books of Lessee and lessor – Journal Entries and Ledger Accounts including minimum rent account.		

<b>Module.5: Emerging Trends in Accounting</b>	<b>08</b>
<p>Digital Transformation of Accounting-Big Data Analytics in Accounting-Cloud Computing in accounting- - Green Accounting-Human Resource Accounting, Inflation Accounting, Database Accounting. (Theory Only).</p>	
<p><b>Skill Developments Activities:</b></p> <ol style="list-style-type: none"> <li>1. Collect Annual Reports of sole proprietors and identify accounting concepts and conventions followed in the preparation of the annual reports.</li> <li>2. Collect Annual Reports of sole proprietors and identify the different components.</li> <li>3. Preparation of Pro-form invoice and accounts sales with imaginary figures.</li> <li>4. Collect Royalty Agreements and draft dummy royalty agreements with imaginary figures.</li> <li>5. Identify latest innovations and developments in the field of accounting.</li> <li>6. Any other activities, which are relevant to the course.</li> </ol>	
<p><b>Text Books:</b></p> <ol style="list-style-type: none"> <li>1. Muninarayanappa. M and Nirmala. M (2021); Financial Accounting, Jayvee International Publications, Bangalore</li> <li>2. ICAI Study Materials on Principles &amp; Practice of Accounting, Accounting and Advanced Accounting.</li> <li>3. Robert N Anthony, David Hawkins, Kenneth A. Merchant, (2017) Accounting: Text and Cases, Mc Graw-Hill Education, 13th Edition.</li> <li>4. S.Anil Kumar, V.Rajesh Kumar and B.Mariyappa – Financial Accounting, Himalaya Publishing House, New Delhi.</li> <li>5. SP Iyengar (2005), Advanced Accounting, Sultan Chand &amp; Sons, Vol.1.</li> <li>6. Charles T. Horngren and Donna Philbrick, (2013) Introduction to Financial Accounting, Pearson Education, 11th Edition.</li> <li>7. J.R. Monga, Financial Accounting: Concepts and Applications. Mayur Paper Backs, New Delhi, 32nd Edition.</li> <li>8. S.N. Maheshwari, and. S. K. Maheshwari. Financial Accounting. Vikas Publishing House, New Delhi, 6th Edition.</li> <li>9. B.S. Raman (2008), Financial Accounting Vol. I &amp; II, United Publishers &amp; Distributors</li> <li>10. Compendium of Statements and Standards of Accounting. The Institute of Chartered Accountants of India, New Delhi.</li> </ol> <p><b>Note: Latest edition of text books may be used.</b></p>	

<b>Name of the Program:</b> Bachelor of Commerce (Data Analytics) <b>Course Code:</b> B.Com. 1.2 <b>NAME OF THE COURSE: FUNDAMENTALS OF MS-EXCEL</b>		
COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS
<b>Pedagogy:</b> Classrooms lecture, Case studies, Group discussion, Seminar & field work etc.,		
<b>Course Outcomes:</b> On successful completion of the course, the Students will be able to <ul style="list-style-type: none"> <li>· Fundamentals of Excel helps Students to learn how to start working with MS-EXCEL right from basics to Tables.</li> <li>· To understand the various templates and printing of their work.</li> <li>· The course aims to understand the most extensive tool used for many analysis in general and in Business Analytics in Particular, this module will equip students with hands-on skills on excel operations</li> </ul>		
<b>SYLLABUS:</b>		<b>HOURS</b>
<b>Module No. 1: INTRODUCTION</b>		<b>12</b>
Basics of Ms-Windows – Desktop, Icon, creating, saving, and using of different documents and applications, Ms- Office: Installing, Customizing, and Using different applications and tools in Ms-Office package, Basics of MS-Word, MS-Access & MS-Outlook.		
<b>Module No. 2: INTRODUCTION TO MS-EXCEL</b>		<b>12</b>
Spreadsheets basics, Need for Spreadsheets, Work-Book, Work –Sheet, Parts of a MS-Excel Work-Sheet- Program area, Work area, Contents of Title-Bar, Manu-Bar, Contents of Manu Ribbons, Meaning of Cell- Cell address, Formula-Bar, Row-Numbers, Column-Letters, Quick Access to Tool-Bar, Office Button, Floating Frames, Adding Work-Sheets in Sheet Tab, Status- Bar., and other features of Excel.		
<b>Module No. 3: WORK-SHEET AND WORK-BOOK OPERATION</b>		<b>12</b>
Selecting Cell and Range of Cells, Merging of Cells, Entering and Saving Data in the Cell, Named Cells, Need of Naming Cells, Entering, Storing, Copying Formula, Using different Arithmetic and logical Operators in Formula, Moving Cell with contents, Copying and Pasting of Cell and Cell Content, Freezing Cells, Editing of Cell Contents, using Cell Formatting Options – Editing Cell Size (increasing Column and Row size of a cell), Text Alignment, using Border, Comments option usage in Cell, Editing and Deleting Comments, Fill, Formatting Fonts, Text Warping, Text Rotate, Using Auto-fit to Adjust Rows and Columns Using of Short-Cuts and Short-Cut Manu, Clear Contents in a Cell, Adding, Deleting and Copying Work-Sheet with in a Work-Book, Renaming a File or Work-Sheet, Inserting Multiple Work-Sheet at a time, Formatting a Work-Sheet Automatically, Sorting Textual & Numerical DATA, Sort Dates or Times, Sort by Cell Colour, Font Colour, or by icon, Sort by a custom list, Sort Rows, sort by more than column or row and other issues in sorting.		

<b>Module No. 4:</b>	<b>TABLES AND FORMATTING</b>	<b>12</b>
<p>Creating a Table, Changing the look of a table, Navigating in a Table, Selecting parts of a Table, Adding, Deleting New Rows / Columns, Moving a Table, Working with the Total Row, Removing Duplicate rows from a table. Sorting and Filtering a table, Converting Table into Range. Formatting tools on the Home Tab, Mini Toolbar, Fonts, Text Alignment, Wrapping text to fit a cell, Colours and Shading, Borders and Lines, Miming Styles Conditional Formatting and Reporting: Format all Cells by using a Two Colour Scale, Format all Cells by using Data Bars quick formatting, Protecting, Protect a Work-Book, Un Protect Work-Book, Protect Work-Sheet Data, Unprotect Work-Sheet data, Share a Work-Book and Proofing tools- Use a Shared Work-Book to Collaborate, Spelling and Grammar Check, Referencing – Relative, Absolute, Mixed Referencing, Basic Functions Viz., SUM, AVERAGE, MAX, MIN, SQRT, TODAY, COUNT, COUNTIF, VAR, CHAR, AND, OR, NOT, VALUE. ROUND, Introduction to Chart Wizard</p>		
<b>Module No. 5:</b>	<b>WORKING WITH MS-EXCEL</b>	<b>08</b>
<p>Using Formulae to Find the roots of a Quadratic Equations, Prove LHS = RHS for Identities, Formula of a Straight –line (<math>Y=MX+C</math>) to find the Slope of a straight –line, Regression Formula, Compound Interest, EMI-Formula, Formulae used in calculating Banker Discount, Bankers gain, True-Discount, Net-Present Value, Sum of AP and GP, Break – Even Analysis, Using Formulae in Ratio Analysis (Balance Sheet Ratios). Using IF Condition, and using Multiple IF Condition in University Result Declaration.</p>		
<b>Module No. 6:</b>	<b>PREPARING WORKED WORK -SHEET FOR PRINT</b>	<b>08</b>
<p><b>Reference Materials</b></p> <ol style="list-style-type: none"> <li>1. Rajkumar S and Nagarajan G and Naveen Kumar M, Fundamentals of MS Excel, Jayvee International Publications, Bangalore.</li> <li>2. Microsoft Excel Latest Version Inside Out – Mark Doge and Craig Stinson – PHI Learning Private Limited, New Delhi – 110001.</li> <li>3. Excel 2013 Bible ; John Walkenbach, Wiley</li> <li>4. Financial Analysis and Modeling using Excel and VAB: Chandan Sengupta, Wiley</li> <li>5. Excel Data Analysis – Modeling and Simulation: Hector Guerreor, Springe</li> <li>6. Microsoft Excel 2013: Data Analysis and Business Modeling: Winston, PHI</li> <li>7. Excel Functions and Formulas: Bernd Held, BPB Publications.</li> </ol>		

<b>Name of the Program:</b> Bachelor of Commerce (Data Analytics) <b>Course Code:</b> B.Com. 1.3 <b>NAME OF THE COURSE: BUSINESS STATISTICS – 1</b>		
COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS
<b>Pedagogy:</b> Classrooms lecture, Case studies, Group discussion, Seminar & field work etc.,		
<b>Course Outcomes:</b> On successful completion of the course, the Students will be able to <ul style="list-style-type: none"> <li>· To understand the basic concepts of statistics</li> <li>· To able to present the data</li> <li>· The students able understand and measures of central tendency</li> </ul> To understand the Skewness and Correlation Analysis		
<b>SYLLABUS:</b>		<b>HOURS</b>
<b>Module No. 1: INTRODUCTION TO STATISTICS</b>		<b>10</b>
Business Statistics – What & Why? Meaning and Definition of Statistics, Functions, Importance, and Limitations of Statistics, Meaning of Data and Information, Classification of Data into Primary & Secondary Data, Data Collection processes involved for Secondary and Primary Data, Preparing Primary Data Collection Tools – Interview Schedule, Observation tools, Questionnaire, Using Google form to collect primary data. Identification of Target respondents to Questionnaire, Sampling & Sampling techniques		
<b>Module No. 2: PRESENTATION OF DATA</b>		<b>15</b>
Formation of Frequency Distribution Table, Classification according to Class – Intervals, Principles of Classification, Tabulation of Data- Parts of a Table, Review of the Table, Types of Tables, Charting Data – General Rules for Constructing Diagrams, Types of Diagrams, One-Dimensional or Bar Diagrams, Points to be kept in mind while constructing Bar Diagrams, Types of Bar Diagrams, Two – Dimensional Diagrams – Pie Diagram, Choice of a suitable diagram. Graphs; Graphs of time series of line graphs, range – chart, band-graphs, Graphs of Frequency Distributions – Histogram, Frequency Polygon, Smoothed Frequency Curve, Cumulative Frequency Curves of 'Ogive Curve'.		
<b>Module No. 3: MEASURES OF CENTRAL TENDENCY</b>		<b>10</b>
Introduction to Statistical Averages, Characteristics of a Good Average, Different Methods of Calculation of Arithmetic Mean, Median, Mode, Relationship among Mean, Median & Mode, Different Methods of Calculation of Geometric and Harmonic Mean		
<b>Module No. 4: MEASURES OF VALUATION AND STANDARD DEVIATION</b>		<b>11</b>
Meaning and Definition, Purpose of Measuring Variation, Properties of a Good Measures of Variation, Methods of Measuring Dispersion – Range, Inter-quartile		

Range or Quartile Deviation, The Average Deviation, Standard Deviations – Calculation of Standard Deviation of Ungrouped and Grouped Data, Relationship between Measures of Variation, Correcting Incorrect Values of Standard Deviation, Coefficient of Variation, Lorenz Curve

**Module No. 5: Corelation and Skewness**

**10**

Meaning of Skewness, Difference between Variation and Skewness, Measures of Skewness for both Grouped data and Un-grouped data Correlation Analysis: Significance of the Study of Correlation, Types of Correlation – Scatter Diagram Method, Karl Pearson's Coefficient of Correlation, Rank Correlation and Coefficient of Rank Correlation, Methods of Least Squares.

**Note: SPSS or MS-Excel must be introduced in Units 2 to 5 in the lab class**

**Books for Reference:**

1. Nirmala M and Raghunatha Reddy .S (2021); Business Statistics, Jayvee International Publications, Bangalore.
2. S.P. Gupta and M.P. Gupta, Business Statistics– Sultan Chand & Sons Educational Publishers – New Delhi., 18th Edition -2014
3. Medhi. J., Statistical Methods: An introductory text. New Age, 1992.
4. J.K. Sharma, Business Statistics, Pearson Education India, 2007.
5. KVK Sharma, Statistics Made Simple: Do it Yourself on PC- PHI Publication
6. Gupta, S.C, and V.K. Kapoor, Fundamentals of Mathematical Statistics- Sultan Chand & Sons – New Delhi. 2001'
7. Mood A.M. Graybill F.A and Boes D.C, Introduction to the Theory of Statistics, McGraw

**Note: Latest edition of text books may be used.**



<b>Name of the Program:</b> Bachelor of Commerce (Data Analytics) <b>Course Code:</b> B.Com. 1.5 a.(Open Elective Course) <b>NAME OF THE COURSE: ACCOUNTING FOR EVERYONE</b>		
COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
3 CREDITS	3 HOURS	42 HOURS
<b>Pedagogy:</b> Classrooms lecture, tutorials, Group discussion, Seminar, Case studies & field work etc.,		
<b>Course Outcomes:</b> On successful completion of the course, the Students will be able to <ol style="list-style-type: none"> <li>1. Analyse various terms used in accounting;</li> <li>2. Make accounting entries and prepare cash book and other accounts necessary while running a business;</li> <li>3. Prepare accounting equation of various business transactions;</li> <li>4. Analyse information from company's annual report;</li> <li>5. Comprehend the management reports of the company.</li> </ol>		
<b>SYLLABUS:</b>		<b>HOURS</b>
<b>Module 1: Introduction to Accounting</b>		<b>08 Hours</b>
Meaning, Importance and Need, Its objectives and relevance to business establishments and other organizations, and individuals. Accounting information: meaning, users and utilities, sources of accounting information. Some Basic Terms –Transaction, Account, Asset, Liability, Capital, Expenditure & Expense, Income, Revenue, Gain, Profit, Surplus, Loss, Deficit. Debit, Credit, Accounting Year, Financial Year.		
<b>Module 2: Transactions and Recording of Transactions</b>		<b>08 Hours</b>
Features of recordable transactions and events, Basis of recording – vouchers and another basis. Recording of transactions: Personal account, Real Account and Nominal Account; Rules for Debit and Credit; Double Entry System, journalizing transactions; Preparation of Ledger, Cash Book including bank transactions. (Simple Problems)		
<b>Module 3: Preparation of Financial Statements</b>		<b>10 Hours</b>
Fundamental Accounting Equation; Concept of revenue and Capital; Preparation of financial statements. (Simple problems)		
<b>Module 4: Company Accounts</b>		<b>08 Hours</b>
Explanation of certain terms – Public Limited Company, Private Limited Company, Share, Share Capital, Shareholder, Board of Directors, Stock Exchange, Listed Company, Share Price, Sensex - BSE, NSE; Annual report, etc. Contents and disclosures in Annual Report, Company Balance Sheet and Statement of Profit and Loss. Content Analysis based on annual report including textual analysis.		

<b>Module 5: Management Reports</b>	<b>08 Hours</b>
<p>Reports on Management Review and Governance; Report of Board of Directors - Management discussion analysis- Annual Report on CSR – Business responsibility report – Corporate governance report – Secretarial audit report.</p>	
<p><b>Skill Development Activities:</b></p> <ol style="list-style-type: none"> <li>1. Download annual reports of business Organisations from the websites and go through the contents of the annual report and present the salient features of the annual report using some ratios and content analysis including textual analysis.</li> <li>2. Prepare accounting equation by collecting necessary data from medium sized firm.</li> <li>3. Prepare financial statements collecting necessary data from small business firms.</li> <li>4. Collect the management reports of any large scale organisation and analyse the same.</li> <li>5. Any other activities, which are relevant to the course.</li> </ol>	
<p><b>Text Books:</b></p> <ol style="list-style-type: none"> <li>1. Nirmala. M and Satyanarayana (2021), Accounting for Everyone, Jayvee International Publications, Bangalore.</li> <li>2. Hatfield, L. (2019). Accounting Basics. Amazon Digital Services LLC.</li> <li>3. Horngren, C. T., Sundem, G. L., Elliott, J. A., &amp; Philbrick, D. (2013). Introduction to Financial Accounting. London: Pearson Education.</li> <li>4. Siddiqui, S. A. (2008). Book Keeping &amp; Accountancy. New Delhi: Laxmi Publications Pvt. Ltd.</li> <li>5. Sehgal, D. (2014). Financial Accounting. New Delhi: Vikas Publishing House Pvt. Ltd.</li> <li>6. Tulsian, P. C. (2007). Financial Accounting. New Delhi: Tata McGraw Hill Publishing Co. Ltd.</li> <li>7. Mukharji, A., &amp; Hanif, M. (2015). Financial Accounting. New Delhi: Tata McGraw Hill Publishing Co. Ltd.</li> <li>8. Maheshwari, S. N., Maheshwari, S. K., &amp; Maheshwari, S. K. (2018). Financial Accounting. New Delhi: Vikas Publishing House Pvt. Ltd.</li> <li>9. Khan, M. Y. and Jain, P. K. Management Accounting. McGraw Hill Education.</li> <li>10. Arora, M. N. Management Accounting, Vikas Publishing House, New Delhi</li> </ol> <p><b>Note: Latest edition of text books may be used.</b></p>	

<b>Name of the Program:</b> Bachelor of Commerce (Data Analytics) <b>Course Code:</b> B.Com. 1.5 b.(Open Elective Course) <b>NAME OF THE COURSE: : PERSONAL FINANCE AND PLANNING</b>		
COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
3 CREDITS	3 HOURS	42 HOURS
<b>Pedagogy:</b> Classrooms lecture, tutorials, Group discussion, Seminar, Case studies & field work etc.,		
<b>Course Outcomes:</b> On successful completion of the course, the Students will be able to <ol style="list-style-type: none"> <li>1. Explain the meaning and appreciate the relevance of Financial Planning;</li> <li>2. Familiarize with regard to the concept of Investment Planning and its methods;</li> <li>3. Examine the scope and ways of Personal Tax Planning;</li> <li>4. Analyze Insurance Planning and its relevance;</li> <li>5. Develop an insight into retirement planning and its relevance.</li> </ol>		
<b>SYLLABUS:</b>		<b>HOURS</b>
<b>Module 1: Introduction to Financial Planning</b>		<b>08 Hours</b>
Financial goals, Time value of money, steps in financial planning, personal finance/loans, education loan, car loan & home loan schemes. Introduction to savings, benefits of savings, management of spending & financial discipline, Net banking and UPI, digital wallets, security and precautions against Ponzi schemes and online frauds such as phishing, credit card cloning, skimming.		
<b>Module 2: Investment Planning</b>		<b>08 Hours</b>
Process and objectives of investment, Concept and measurement of return & risk for various assets class, Measurement of portfolio risk and return, Diversification & Portfolio formation. Gold Bond; Real estate; Investment in Greenfield and brownfield Projects; Investment in fixed income instruments- financial derivatives & Commodity market in India. Mutual fund schemes including SIP; International investment avenues.		
<b>Module 3: Personal Tax Planning</b>		<b>10 Hours</b>
Tax Structure in India for personal taxation, Scope of Personal tax planning, Exemptions and deductions available to individuals under different heads of income and gross total income, Special provision u/s 115BAC vis-à-vis General provisions of the Income-tax Act, 1961. Tax avoidance versus tax evasion.		
<b>Module 4: Insurance Planning</b>		<b>08 Hours</b>
Need for Protection planning. Risk of mortality, health, disability and property. Importance of Insurance: life and non-life insurance schemes. Deductions available under the Income-tax Act for premium paid for different policies.		

<b>Module 5: Retirement Benefits Planning</b>	<b>07 Hours</b>
Retirement Planning Goals, Process of retirement planning, Pension plans available in India, Reverse mortgage, New Pension Scheme. Exemption available under the Income-tax Act, 1961 for retirement benefits.	
<p><b>Skill Development Activities:</b></p> <p><b>The learners are required to:</b></p> <ol style="list-style-type: none"> <li>1. Perform electronic fund transfer through net-banking and UPI.</li> <li>2. Identify certain Ponzi schemes in the market during the last few selected years.</li> <li>3. Prepare tax planning of a hypothetical individual</li> </ol>	
<p><b>Text Books:</b></p> <ol style="list-style-type: none"> <li>1. Nirmala. M and Nagarajan.G (2021), Personal Finance and Planning, Jayvee International Publications, Bangalore</li> <li>2. Indian Institute of Banking &amp; Finance. (2017). Introduction to Financial Planning. New Delhi: Taxmann Publication.</li> <li>3. Pandit, A. (2014). The Only Financial Planning Book that You Will Ever Need. Mumbai: Network 18 Publications Ltd.</li> <li>4. Sinha, M. (2008). Financial Planning: A Ready Reckoner. New York: McGraw Hill Education. Halan, M. (2018). Let's Talk Money: You've Worked Hard for It, Now Make It Work for You. New York: HarperCollins Publishers.</li> <li>5. Tripathi, V. (2017). Fundamentals of Investment. New Delhi: Taxmann Publication.</li> </ol> <p>Note: Latest edition of text books may be used.</p>	

<b>Name of the Program:</b> Bachelor of Commerce (Data Analytics) <b>Course Code:</b> B.Com. 2.1 <b>NAME OF THE COURSE: ADVANCED FINANCIAL ACCOUNTING</b>		
COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS
<b>Pedagogy:</b> Classrooms lecture, Case studies, Tutorial classes, Group discussion, Seminar & field work etc.,		
<b>Course Outcomes:</b> On successful completion of the course, the Students will be able to a) Understand & compute the amount of claims for loss of stock & loss of Profit. b) Learn various methods of accounting for hire purchase transactions. c) Deal with the inter-departmental transfers and their accounting treatment. d) Demonstrate various accounting treatments for dependent & independent branches. e) Prepare financial statements from incomplete records.		
<b>SYLLABUS:</b>		<b>HOURS</b>
<b>Module-1: Insurance Claims for Loss of Stock</b>		<b>10</b>
Meaning, Need and Advantages of Fire Insurance-Special terminologies in Fire Insurance Claims – Insurer, Insured, Premium, Salvage, Insurance Policy, Sum Assured, Under Insurance, over insurance Average Clause, Claim. Problems on Ascertainment of Fire Insurance Claim including problems on abnormal line of goods.		
<b>Module - 2: Hire Purchase Accounting</b>		<b>10</b>
Meaning of Hire Purchase and Installment Purchase System- difference between Hire Purchase and Installment Purchase – Important Definitions – Hire Purchase Agreement – Hire Purchase Price – Cash Price – Hire Purchase Charges – Net Hire Purchase Price – Net Cash Price – Calculation of Interest – Calculation of Cash Price – Journal Entries and Ledger Accounts in the books of Hire Purchaser and Hire Vendor (Asset Accrual Method only).		
<b>Module -3: Departmental Accounts</b>		<b>12</b>
Meaning and Features of Departmental Undertaking-Examples of Department Specific Expenses and Common Expenses -Need and Bases of Apportionment of Common Expenses-Preparation of Statement of Trading and Profit and Loss in Columnar form, Statement of General Profit and Loss and Balance Sheet – Simple problems involving Inter Departmental Transfers at Cost Price (vertical form).		
<b>Module-4: Branch Accounts</b>		<b>12</b>
Meaning of Branch Accounts -Objectives and Advantages of Branch Accounting Types of Branches – Meaning and features of Dependent Branches, Independent Branches and Foreign Branches-Methods of maintaining books of accounts by the Head Office –Debtors System- ascertainment of Profit or Loss of Branch under Debtors System – Supply of goods at Cost Price and supply of goods at Invoice Price.		

<b>Module -5: Conversion of Single-Entry System into Double Entry System</b>	<b>12</b>
<p>Single entry system- Meaning – Features – Merits – Demerits – Types. Conversion into Double Entry system – Need for Conversion – Preparation of Statement of Affairs – Cash book – Memorandum Trading Account – Total Debtors Account – Total Creditors Account – Bills Receivable Account – Bills Payable Account – Statement of Trading and Profit &amp; Loss and Balance Sheet.</p>	
<p><b>Skill Development Activities:</b></p> <ol style="list-style-type: none"> <li>1. Identify the procedure &amp; documentations involved in the insurance claims.</li> <li>2. Collect hire purchase agreement and draft dummy hire purchase agreements with imaginary figures.</li> <li>3. Identify the common expenditures of a departmental undertaking</li> <li>4. Collect the procedure and documentations involved in the establishment of various branches.</li> <li>5. Visit any sole proprietor firm and identify the steps involved in the conversion of single entry into double entry system.</li> <li>6. Any other activities, which are relevant to the course.</li> </ol>	
<p><b>Text Books:</b></p> <ol style="list-style-type: none"> <li>1. Muninarayanappa. M and Raghu. V.N, Advanced Financial Accounting, Jayvee International Publications, Ed. 2021, Bangalore.</li> <li>2. ICAI Study Materials on Principles &amp; Practice of Accounting, Accounting and Advanced Accounting.</li> <li>3. S.Anil Kumar, V.Rajesh Kumar and B.Mariyappa – Financial Accounting, Himalaya Publishing House, New Delhi</li> <li>4. SP Iyengar (2005), Advanced Accounting, Sultan Chand &amp; Sons, Vol.1.</li> <li>5. Robert N Anthony, David Hawkins, Kenneth A. Merchant, (2017) Accounting: Text and Cases, McGraw-Hill Education, 13th Edition.</li> <li>6. Charles T. Horngren and Donna Philbrick, (2013) Introduction to Financial Accounting, Pearson Education, 11th Edition.</li> <li>7. J.R. Monga, Financial Accounting: Concepts and Applications. Mayur Paper Backs, New Delhi, 32nd Edition.</li> <li>8. S.N. Maheshwari, and. S. K. Maheshwari. Financial Accounting. Vikas Publishing House, New Delhi, 6th Edition.</li> <li>9. B.S. Raman (2008), Financial Accounting Vol. I &amp; II, United Publishers &amp; Distributors</li> <li>10. Compendium of Statements and Standards of Accounting. The Institute of Chartered Accountants of India, New Delhi.</li> </ol> <p><b>Note: Latest edition of text books may be used.</b></p>	

<b>Name of the Program:</b> Bachelor of Commerce (Data Analytics) <b>Course Code:</b> B.Com. 2.2 <b>NAME OF THE COURSE:</b> BUSINESS STATISTICS – 2		
COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS
<b>Pedagogy:</b> Classrooms lecture, Case studies, Tutorial classes, Group discussion, Seminar & field work etc.,		
<b>Course Outcomes:</b> On successful completion of the course, the Students will be able to learn and analyse data for various descriptive and inferential statistics and understand probability and sampling distributions and application of linear regression in multivariate context for predictive purpose		
<b>SYLLABUS:</b>		<b>HOURS</b>
<b>Module No. 1: REGRESSION ANALYSIS AND TIME SERIES ANALYSIS</b>		<b>10</b>
Regression Analysis: Introduction – Difference between Correlation and Regression Analysis, The Linear Bivariate Regression Model – Regression – lines, Regression – equations 'Y' on 'X' and 'X' on 'Y', Regression Coefficients, Standard Errors of Estimates, Coefficient of Determination, Time Series Analysis: Steps in Forecasting, Requirements of a Good Forecasting Systems, Methods of Forecasting, Business Forecasting and Time-series Analysis, Components of Time-series – Secular(Factor Affecting) Trend, Seasonal Variations, Cyclical Variations, Irregular Variations. Straight – line Trends Measurement – Free hand or graphic method, Methods of Semi Averages, Methods of least square, Non-linear Trend Measurements – Free hand graphic methods, Method of Moving Averages, Second Degree Parabola collect primary data. Identification of Target respondents to Questionnaire, Sampling & Sampling techniques		
<b>Module No. 2: PROBABILITY AND SAMPLING</b>		<b>12</b>
Introduction to Probability, meaning, Usefulness, Mathematical Properties, Permutation, Combination, Trail, Event, Sample Space, Mutually Exclusive Cases, Exhaustive Events, Independent Events, Dependent Events, Simple and Compound Events; Measurement: Classical, Relative Frequency Theory of Probability, Limitations, Personalistic View of Probability and Axiomatic Approach of Probability, Addition and Multiplication theorem, Odds, Miscellaneous illustrations, theoretical Questions Practical Problems. Sampling Theory and Test of Significance: Purpose of Sampling, Principles of Sampling, Principle of Statistical Regularity, Principle of Inertia of Large Numbers Methods of Sampling: Random Sampling – Stratified Sampling, Systematic Sampling, Multi-stage Sampling. Non-random Sampling Methods – Judgment Sampling, Quota Sampling, Convenience Sampling, Size of Sample: Calculation of Size of Sampling, Sampling Errors, Causes of Bias, Avoidance of Bias, Methods of Reducing Sampling Errors, Non-Sampling Errors – Control of Non-Sampling Errors. Sampling Distributions: The Population (Universe) Distribution, The Sampling Distribution, Relationship between Population, Sample and Sample Distributions, Sampling Distribution of Mean, Distribution of Sample Mean, Standard Deviations, Sampling Distribution of Difference of the two Means,		

Sampling Distribution of the Number of Successes, Sampling Distribution of Proportions, Sampling Distribution of the Difference of two Proportions. – Problems & Solutions.	
<b>Module No. 3: STATISTICAL INFERENCE AND HYPOTHESIS TESTING</b>	<b>10</b>
<p>Procedure of Hypothesis Testing, Type – 1 and Type – 2 Errors, One-Tailed and Two- Tailed Tests, Tests of Hypothesis Concerning Large Samples, Testing Hypothesis about Population Mean, Testing Hypothesis about the difference between two Means, Testing Hypothesis Concerning Attributes, Testing Hypothesis about a Population Proportion, Testing Hypothesis about the difference between Two Proportions – Problems and Solutions.</p> <p>Chi-Square Test: The Chi-Square Distribution, Important Properties of Chi-Square Distribution, Chi-Square Test, Conditions for the Application of <math>\chi^2</math> Test, Use of the Chi-square Table, Yates's Correction for Continuity, Grouping when Frequencies are Small, Cautions while Applying <math>\chi^2</math> Test – Problems and Solutions.</p>	
<b>Module No. 4: ANALYSIS OF VARIANCE &amp; INTERPOLATION &amp; EXTRAPOLATION</b>	<b>10</b>
The ANOVA Technique, The Basic Principles of ANOVA, One – Way ANOVA – Analysis of Variance Table, Short-cut Method for One-way ANOVA, Critical Difference. Two-Way ANOVA – One Observation per Cell, More Than One Observation per Cell, Latin-Square Design, Analysis of Co-Variance (ANOCOVA), Interpolation & Extrapolation – Simple Problems	
<b>Module No. 5: OVERVIEW OF MULTIVARIATE STATISTICS</b>	<b>14</b>
Nature of Multivariate Analysis, Validity and Reliability, Types of Multivariate Techniques, Factor Analysis, Multiple Regression, Logistic Regression, Canonical Correlation, Conjoint Analysis, Cluster Analysis, Multi-Dimensional Scaling, Correspondence Analysis, Structural Equation Modeling, Multivariate Model Building.	
<p><b>Books for Reference:</b></p> <ol style="list-style-type: none"> <li>1. Nirmala M (2021), Jayvee International Publication, Bangalore.</li> <li>2. Ken Black, Business Statistics, New Delhi.</li> <li>3. Waller, Derek, Statistics for Business, London: BH Publication, 2013.</li> <li>4. Lee, Cheng. et.al, Statistics for Business and Financial Economics, New York: Wiley Heidelberg Dordrecht</li> <li>5. Anderson, David.R., Thomas A. Williams and Dennis J. Sweeney, Statistics for Business and Economics, New Delhi: South Western.</li> <li>6. S.P. Gupta and M.P. Gupta, Business Statistics– Sultan Chand &amp; Sons Educational Publishers – New Delhi., 18th Edition -2014</li> <li>7. J.K. Sharma, Business Statistics, Pearson Education India, 2007.</li> <li>8. KVK Sharma, Statistics Made Simple: Do it Yourself on PC- PHI Publication</li> <li>9. Gupta, S.C, and V.K. Kapoor, Fundamentals of Mathematical Statistics- Cultan Chand &amp; Sons – New Delhi. 2001'</li> <li>10. Mood A.M. Graybill F.A and Boes D.C, Introduction to the Theory of Statistics, Mcgraw Hill.</li> </ol>	



<b>Name of the Program:</b> Bachelor of Commerce (Data Analytics) <b>Course Code: : B.Com – LSCM - 2.3</b> <b>NAME OF THE COURSE: FUNDAMENTALS OF DATABASE MANAGEMENT SYSTEMS AND SQL</b>		
COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
4 CREDITS	4 HOURS	56 HOURS
<b>Pedagogy:</b> Classrooms lecture, Case studies, Group discussion, Seminar & field work etc.,		
<b>Course Outcomes:</b> On successful completion of the course, the Students will be able to 1. The aim of this course is to enable students to understand Database Management Systems and the significance of DDL, DML in SQL Portion of RDBMS. Knowledge of Excel and SQL would equip students with hands-on skills on DBMS operations with SQL. 2. To understand DBMS structure and file management system in DBMS		
<b>SYLLABUS:</b>		<b>HOURS</b>
<b>Module No. 1: INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS</b>		<b>10</b>
Meaning and Definition of Database, Objectives of Database, Features of Database, Conceptual Data modeling – File Organization – Data Structure – Data models: HDBMS, NDBMS, RDBMS, OODBMS, Desktop and Server-level Database, Resent Trends in Database.		
<b>Module No. 2: DATABASE DESIGN</b>		<b>08</b>
Relational Data Model – Relational Algebra – ER Diagrams – Data Dictionary – Normalisation – Boyce Codd Normal Forms – Integrity – Relational Database Languages – Database Administration – File Structures and Indexing. Object oriented concepts – Structure – Models and Databases – Object life cycle modeling – Objects, Classes, and Patterns – Object interaction modeling – Object Oriented Design – UML		
<b>Module No. 3: OPERATION AND MANAGEMENT</b>		<b>10</b>
Client / Server and Databases – Data Warehousing – Query Processing – Concurrency Management – Heterogeneous and Homogenous Systems – Distributed Databases – Controls – Atomicity, Recovery – Security, Back-up and Recovery,  Distributed Databases: Structure of Distributed Database; Trade-offs in Distributing the Database, Advantages of Data Distribution, Disadvantages of Data Distribution; Design of Distributed Databases, Data Replication, Data Fragmentation		
<b>Module No. 4: SQL STRUCTURED QUERY LANGUAGE</b>		<b>12</b>
Relational Query Languages, the SQL Query Language, DDL – CREATE Table, ALTER Table, DROP Table, CREATE Index, DROP Index etc., DML – SELECT, UPDATE, DELETE, INSERT INTO etc., DATA – TYPE, Constraints on Attributes – Referential Integrity Constraint, Where-Clause – Arithmetic and Relational Operators		

<b>Module No. 5: PRACTICAL PROBLEMS AND LAB-WORK ON SQL</b>	<b>16</b>
Practical Problems And Lab-Work On SQL	
<p><b>Reference Materials</b></p> <ol style="list-style-type: none"> <li>1. Nagarajan G and Clement King Fundamentals of Database Management Systems and SQL (2021), Jayvee International Publication, Bangalore.</li> <li>2. Clement King and Raju G.S, Fundamentals of Database Management Systems and SQL (2021), Jayvee International Publication, Bangalore.</li> <li>3. Gary W.Hansen and James V.Hansen, “Database Management and Design” Prentice Hall</li> <li>4. C.S.V. Murthy – Data Base Management Systems-HPH</li> <li>5. C.Laudon. Management information systems 6th edition, published 2000. P.</li> <li>6. Dr. Milind m. Oka. Management information systems. Everest publishing house. P.3</li> <li>7. Gordon. B. Davis &amp; M. H. Olson. Management Information Systems.. Conceptual Foundations, structure and development. SECOND EDITION. P.6</li> <li>8. Jacek Błażewicz, et al., “Handbook on parallel and distributed processing”, Springer Science &amp; Business Media, 2013.</li> </ol> <p><b>Note: Latest edition of text books may be used.</b></p>	

<b>Name of the Program:</b> Bachelor of Commerce (Data Analytics) <b>Course Code:</b> B.Com. 2.4 a (Open Elective Course) <b>Name of the Course:</b> INVESTING IN STOCK MARKETS		
COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
3 CREDITS	3 HOURS	42 HOURS
<b>Pedagogy:</b> Classrooms lecture, Case studies, Group discussion, Seminar & field work etc.,		
<b>Course Outcomes:</b> On successful completion of the course, the Students will be able to		
<ol style="list-style-type: none"> <li>1. Explain the basics of investing in the stock market, the investment environment as well as risk &amp; return;</li> <li>2. Analyse Indian securities market;</li> <li>3. Examine EIC framework and conduct fundamental analysis;</li> <li>4. Perform technical analysis;</li> <li>5. Invest in mutual funds market.</li> </ol>		
<b>SYLLABUS:</b>		<b>HOURS</b>
<b>Module 1: Basics of Investing</b>		<b>10 Hours</b>
Basics of Investment & Investment Environment. Risk and Return, Avenues of Investment -Equity shares, Preference shares, Bonds & Debentures, Insurance Schemes, Mutual Funds, Index Funds. Indian Security Markets - Primary Market, Secondary Market and Derivative Market. Responsible Investment.		
<b>Module 2: Fundamental Analysis</b>		<b>08 Hours</b>
Top down and bottom up approaches, Analysis of international & domestic economic scenario, Industry analysis, Company analysis (Quality of management, financial analysis: Both Annual and Quarterly, Income statement analysis, position statement analysis including key financial ratios, Cash flow statement analysis, Industry market ratios: PE, PEG, Price over sales, Price over book value, EVA), Understanding Shareholding pattern of the company.		
<b>Module 3: Technical Analysis</b>		<b>08 Hours</b>
Trading rules (credit balance theory, confidence index, filter rules, market breath, advances vs declines and charting (use of historic prices, simple moving average and MACD) basic and advanced interactive charts. Do's & Don'ts of investing in markets.		
<b>Module 4: Indian Stock Market</b>		<b>08 Hours</b>
Market Participants: Stock Broker, Investor, Depositories, Clearing House, Stock Exchanges. Role of stock exchange, Stock exchanges in India- BSE, NSE and MCX. Security Market Indices: Nifty, Sensex and Sectoral indices, Sources of financial information. Trading in securities: Demat trading, types of orders, using brokerage and analyst recommendations.		
<b>Module 5: Investing in Mutual Funds</b>		<b>08 Hours</b>
Concept and background on Mutual Funds: Advantages, Disadvantages of		

investing in Mutual Funds, Types of Mutual funds- Open ended, close ended, equity, debt, hybrid, index funds and money market funds. Factors affecting choice of mutual funds. CRISIL mutual fund ranking and its usage, calculation and use of Net Asset Value.

**Skill Development Activities:**

1. Work on the spreadsheet for doing basic calculations in finance.
2. Learners will also practice technical analysis with the help of relevant software.
3. Practice use of Technical charts in predicting price movements through line chart, bar chart, candle and stick chart, etc., moving averages, exponential moving average.
4. Calculate of risk and return of stocks using price history available on NSE website.
5. Prepare equity research report-use of spreadsheets in valuation of securities, fundamental analysis of securities with the help of qualitative and quantitative data available in respect of companies on various financial websites, etc.

**Text Books:**

1. Nirmala M and Shobha T.S (2021), Investing in Stock Markets, Jayvee International Publications, Bangalore.
2. Chandra, P. (2017). Investment Analysis and Portfolio Management. New Delhi: Tata McGraw Hill Education.
3. Kevin, S. (2015). Security Analysis and Portfolio Management. Delhi: PHI Learning. Ranganatham,
4. M., & Madhumathi, R. (2012). Security Analysis and Portfolio Management. Uttar Pradesh: Pearson (India) Education.
5. Pandian, P. (2012). Security Analysis and Portfolio Management. New Delhi: Vikas Publishing House.

**Note: Latest edition of text books may be used.**

<b>Name of the Program:</b> Bachelor of Commerce (B.Com.) <b>Course Code:</b> B.Com. 2.4 b (Open Elective Course) <b>Name of the Course:</b> INNOVATION MANAGEMENT		
COURSE CREDITS	NO. OF HOURS PER WEEK	TOTAL NO. OF TEACHING HOURS
3 CREDITS	3 HOURS	42 HOURS
<b>Pedagogy:</b> Classrooms lecture, Case studies, Group discussion, Seminar & field work etc.,		
<b>Course Outcomes:</b> On successful completion of the course, the Students will be able to		
1 The students can be able to defining types and patterns of innovation. 2 Search of the sources of innovation and ideas generating. 3 Students can be able to defining innovation-related strategic decisions within organizations. 4 Managing the processes of new product development. 5 Developing the paths of cooperation for innovation-based projects.		
<b>SYLLABUS:</b>		<b>HOURS</b>
<b>Module 1: Exploring Innovations</b>		<b>10 Hours</b>
Public Administration- meaning, nature and scope and limitations; Concept and functions of a welfare state; Emergence of civil society; Factors leading to emergence of civil society; Concept of liberty, Theories of liberty; Concept of equality, Dimensions of equality; Concept of justice, dimensions of justice. Similarity and Dissimilarity between Public Administration and Business Administration.		
<b>Module 2: Application of Innovation</b>		<b>10 Hours</b>
Good society: Need and Importance, Moral Reasoning, Theories of Moral Reasoning; Diversity, Equity and Equality; Leadership; Responsibility, Accountability; Globalization and society; Cross cultural issues; Ethical Conduct of National and Multinational Corporations.		
<b>Module 3: Marketing Innovation Products</b>		<b>10 Hours</b>
Constitution of India- Preamble, Fundamental rights, Directive Principles of state policies; India's federal system, NITI AYOJ- role and functions; Impact of political system on business environment- policies, programmes and procedure; Ease of doing business; Start-up India, Stand Up India, Make in India, Recent trends in taxation policies-impact on investment and business.		
<b>Module 4: Evaluation of Innovation</b>		<b>08 Hours</b>
Judicial System- features and structure; Jurisdiction, Powers and Functions, Judicial Review, Judicial Activism and business, Human Rights and business- challenges and opportunities, Social Justice. Public Interest Litigation and writs- challenges and opportunities for business.		
<b>Module-V: Innovation in Reality</b>		<b>04 Hours</b>
Mind-set, Lateral thinking, Out of Box Approach, Creativity, Innovation for Problem Solving.		

**Skill Development Activities:**

- 1 Make students apply their knowledge on innovation and innovation dynamics to real case.
- 2 Make students work on their teamwork skills.
- 3 Make students develop their online collaborative working skills and learn how to use some of the appropriate tools to that extent.
- 4 Make students develop their data collection and analysis skills.

**Text Books:**

1. Culture, Innovation, and Growth Dynamics by Elias G. Carayannis; Ali Pirzadeh; Denisa Popescu
2. Nagarajan & Raj Kumar S ;(2021) Innovation Management; Jayvee International Publications; Ist Edition,
3. Phillips, J. J., & Phillips, P. P. (2018). Using Design-Thinking in Your Innovation Projects. *Journal for Quality & Participation*, 41(3), 12–15.
4. Schoemaker, P. J. H., Heaton, S., & Teece, D. (2018). Innovation, Dynamic Capabilities, and Leadership. *California Management Review*, 61(1), 15–42.
5. The Oxford handbook of group creativity and innovation. (2019). Oxford University Press.

**Note: Latest edition of text books may be used.**

# NATIONAL EDUCATION POLICY 2020

## Key features:

- ❖ **Multi-disciplinary and holistic education system.**
- ❖ **Flexibility, mobility, competitiveness and freedom to choose.**
- ❖ **Multiple Entry-Exit options.**
- ❖ **Students centric learning system.**
- ❖ **Transformative education system.**

## Experiential Learning:

- **Focus on experiential, inquiry and discovery based teaching learning methods.**
- **Arts, Sports and story-telling and ICT integrated pedagogy**
- **Promoting peer tutoring as voluntary and joyful activity under the supervision of teachers.**

## Promotion of peer tutoring:

- ✓ **Promoting peer tutoring as voluntary and joyful activity under the supervision of teachers.**
- ✓ **No hard separation between curricular co-curricular and extracurricular area.**

## Bagless days:

- **Bagless days to be scheduled in academic Calendar.**

## Use and integration of technology:

- **Integration of technology enable pedagogy in classes 6-12**