



CURRICULAR ASPECTS

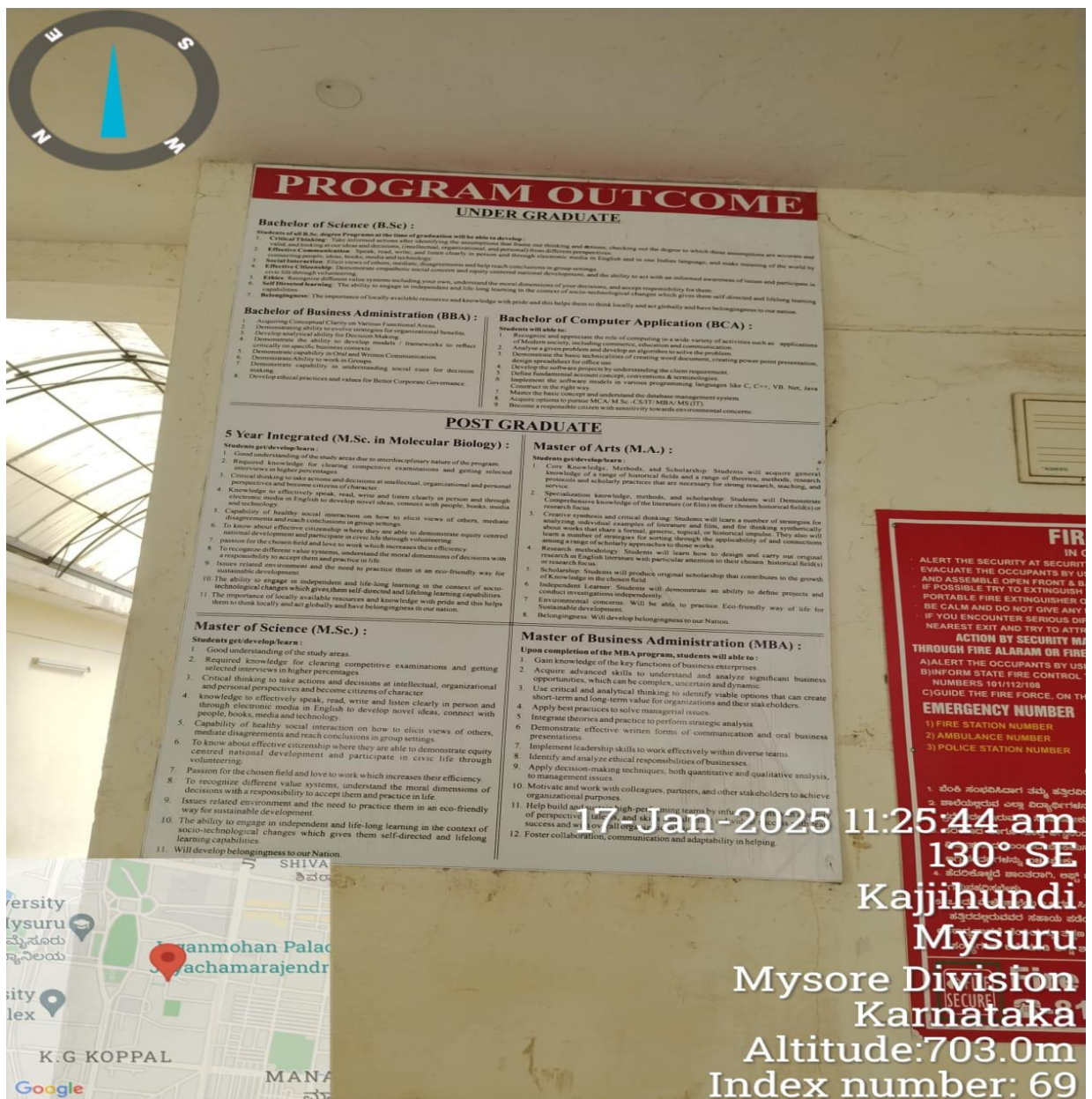
1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

Yuvaraja's College being a multi-faculty college, has always endeavoured to kept abreast of the latest developments at the regional and global levels. The programmes have relevance to local, regional and global developmental needs. The PO of all the programmes help the students to develop critical thinking, effective communication, good social interaction, effective citizenship and also foster a sense of belongingness to our locality, region and our nation. This helps them to meet the global standards which is reflected by the achievements of the currently studying as well as passed out students. Programme specific outcomes depict how these are set to achieve the outcomes of all programmes. The PSOs of the majority of the subjects help in fostering scientific temper among students which is much needed to gain life skills. The course outcomes of basic science courses show the relevance of basic science even in this fast-changing world which is technology driven. Many courses offered are with practical approach and skill-based and is in tune with the local, regional and global requirements.

PO of critical thinking is developed by the students taking up B.Sc, BCA, BBA, 5-Year Integrated M.Sc, M.Sc. and MBA by making them address solution based problems. PO of effective communication is imparted by language courses in written and oral which enables them to fare well in interviews. PO related to good social interaction, effective citizenship and fostering a sense of belongingness to our locality and nation is taught specifically in Indian Constitution course. Environmental concerns are addressed through Environmental Studies course. Programme Specific outcomes and course outcomes of courses have all the three levels of relevance. National level importance is given in the study and many departments make institute visits mandatory which facilitates advancement of knowledge by enabling the students to understand national level thrust areas of research going on in the country. Most of the issues dealt in both physical science and natural science are global based ones – computer application courses offer knowledge in programming and coding, Business Administration courses impart knowledge of global relevance too. Currently, our college has adopted the NEP 2020 where significant changes towards holistic education is incorporated.

"Information about the Programme Outcomes of undergraduate and postgraduate courses is displayed on the campus for students."



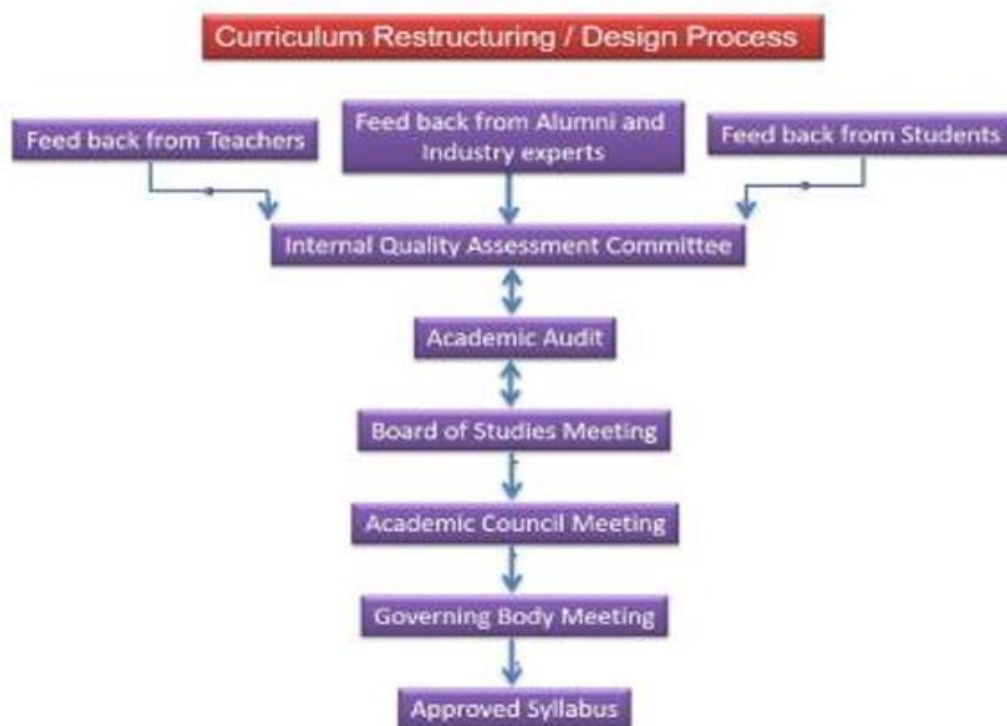


1. Curricular Aspects

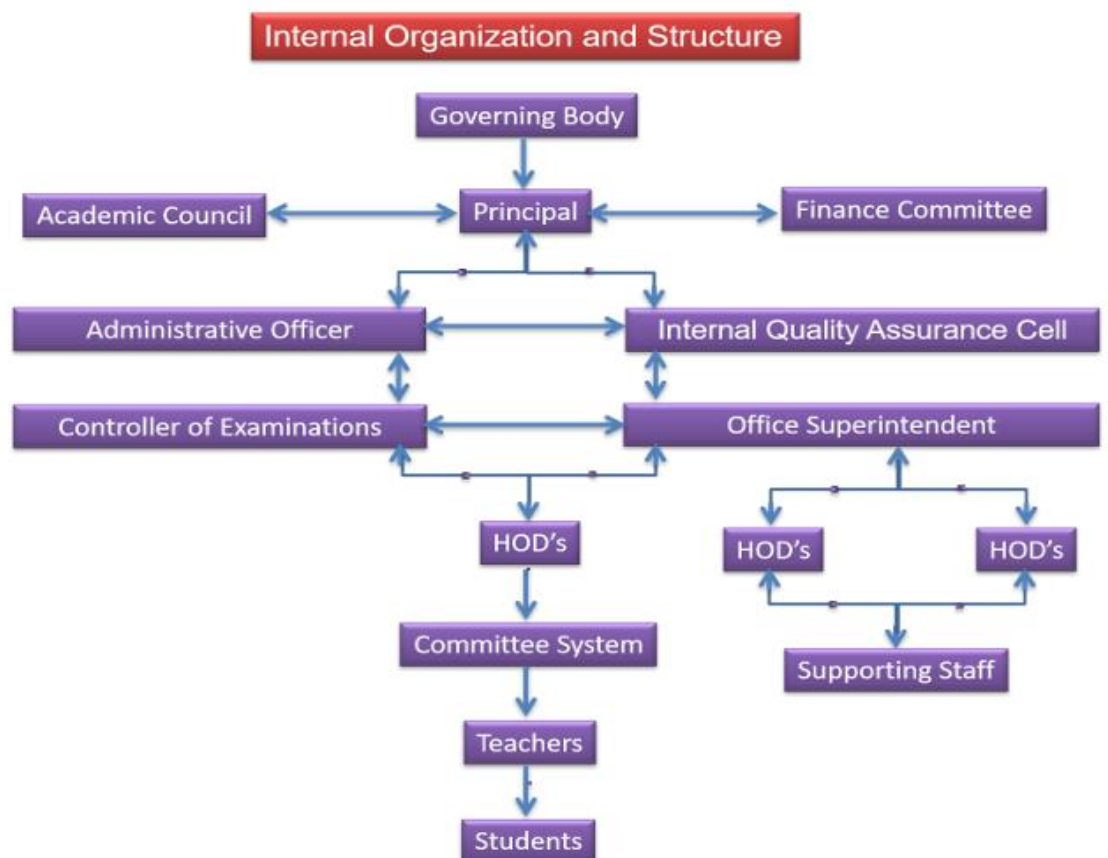
1.1 Curriculum design and development

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ORGANOGRAM



Effective and efficient functioning of the institute is governed through different administrative section and as direction from the University of Mysore .The functioning of the institutional bodies is effective and efficient which is reflecting through policy implementation, administrative setup, and service rules. All the statutory bodies of the institute are constituted according to UGC norms and from the guidelines of University of Mysore. The institute Organogram is clearly defined and is provided here for demonstrating effective and efficient functioning of the institutional bodies.



The college has adopted the NEP 2020 where significant changes towards holistic education is incorporated.

NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, YUVARAJA COLLEGE, UNIVERSITY OF MYSORE Regulations Governing the Choice Based Credit System Semester Scheme with Multiple Entry and Exit Options in the Undergraduate and Post-Graduate Degree Programmes in the Faculties of Arts, Science and Commerce (Framed under Section 44 (1) (c) of the KSU Act 2000) Preamble: Education plays a significant role in building a nation. There are quite a large number of educational institutions, engaged in imparting education in our country. However, our present education system is churning out youth who have to compete locally, regionally, nationally as well as globally. The 21st Century has opened up many new challenges in the field of Higher Education. The present alarming situation necessitates transformation and/or redesigning of the system, not only by introducing innovations but developing a “learner- centric” approach. But the majority of our higher education institutions have been following the system which obstructs the flexibility for the students to study the subjects/courses of their choice and their mobility to different institutions. Thus, there is a need to allow flexibility in the education system, so that students depending upon their interests can choose inter-disciplinary, intra-disciplinary and skill-based courses. It should be holistic to train the student into a perfect human being and a useful member of society. The aim of higher education is to develop good, well rounded and creative individuals. It has to enable an individual to study one or more specialized areas of interest at a deeper level, while at the same time building character, ethical and constitutional values, intellectual curiosity, spirit of service and capabilities across disciplines including sciences, social sciences, arts, humanities as well as professional, technical and vocational crafts. At the society level higher education must enable development of an enlightened, socially conscious, knowledgeable and skilled nation that can uplift its people and construct and implement solutions to its own problems. It is also to bridge the increasing gap between an undergraduate degree and employability. The New Education Policy (2019) initiated and developed by the Ministry of Human Resource Development (HRD), Govt. of India, has been approved by the Central cabinet on 29th July 2020. The National Education Policy (NEP) has brought several reforms in Indian education which includes broad based multidisciplinary Undergraduate Education with 21st Century skills while developing specialized knowledge with disciplinary rigor. It is to bring equity, efficiency and academic excellence in National Higher Education System. The important ones include innovation and improvement in course-curricula, introduction of paradigm shift in learning and teaching pedagogy, evaluation and education system. The role of Universities and colleges in the 21st Century extends far beyond traditional knowledge creation and dissemination to encompass new expectations for innovations that will have broader,

social and economic benefits. To cater to the needs of students with diverse talents, aspirations and professional requirements, it is necessary to make qualitative changes in its undergraduate and postgraduate programs. In this backdrop, the National Education Policy has recommended a Multidisciplinary Undergraduate Program with multiple exit and entry options with certificate/Diploma/degrees at each of the exits. 1 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS- YUVARAJA COLLEGE, A nationwide ecosystem of vibrant multi-disciplinary graded higher educational institutions (Universities and Colleges) are to be developed. In this context, a liberal approach has to be the basis of undergraduate education in all fields and disciplines at the undergraduate level, including professional education. Undergraduate curriculum needs to be focussed on creativity and innovation, critical thinking and higher order thinking capacities, problem solving abilities, team work, communication skills, more in-depth learning and mastery of curricula across fields. The University Grants Commission has asked all the universities in the country to implement the multidisciplinary and holistic education across disciplines for a multidisciplinary world, in all the Universities and Affiliated Colleges. The Karnataka State Higher Education Council has also communicated general guidelines in this regard. Further, the Karnataka State Higher Education Council has proposed a model curriculum framework and an implementation plan for the State of Karnataka. It is to suggest and facilitate the implementation of schemes and programs, which improve not only the level of academic excellence but also improve the academic and research environment in the state. The proposed curriculum framework endeavours to empower the students and help them in their pursuit for achieving overall excellence. The proposed Four-year Multidisciplinary Undergraduate program is a fundamental transformation of the current undergraduate education which replaces the conventional undergraduate programs of universities in the State. Outcome Based Education (OBE) practices are to be used to design the curriculum. It is proposed to develop Graduate Attributes at appropriate level which will act as common denominator for curriculum across universities. Curriculum shall focus on critical thinking and problem solving. Conscious efforts to develop cognitive and non-cognitive problem-solving skills among the learners shall be part of the curriculum. Use of Bloom's Taxonomy in designing curriculum to move from lower order thinking skills to higher order thinking skills is a desired option. The programs designed shall empower graduates as expert problem solvers using their disciplinary knowledge and collaborating in multi-disciplinary teams. The Yuvaraja College, an autonomous constituent College of University of Mysore thought it fit to implement the multidisciplinary and holistic education in all the under graduate programs and the consequential post-graduate programs, with multiple entry and exit options with multiple certificate/diploma/degrees in the Faculties of Science and Management to replace the present undergraduate degree programs effective from the academic year 2021-22. Hence these Regulations. Students will have the option to exit after one year with a Certificate, 2-years with award of the

Diploma and after 3-years with the award of the Bachelor Degree. Successful completion of the four-year program will lead to award of the Bachelor Degree with Honors in particular subjects. Continuation of the undergraduate program for the fourth year in colleges is optional, in subjects in which they are not offering postgraduate programs. But it is a preferred option. The graduates of these colleges can seek admission to the fourth year program in the respective postgraduate departments in the university or in the colleges wherever it is offered, as the present post-graduate programs 2 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS- YUVARAJA COLLEGE, in subjects will be restructured into one-year Master's degree for honors degree holders and two years Master degree for the Basic degree holders in the subjects.

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 Faculties of Arts, Science and Commerce". (b) These regulations shall come into force from the Academic Year 2021-22.

2. SALIENT FEATURES OF THE FOUR YEARS MULTIDISCIPLINARY UNDERGRADUATE PROGRAMMES 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 years 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 master's/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 Degree programmes with exit options at the completion of third and fourth years, with the Undergraduate Degree and Undergraduate Degree with Honours 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. 3 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, (i) (j) 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. 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 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. 2.1. THE SALIENT FEATURES OF THE CREDIT BASED SEMESTER SCHEME: On this basis, generally, a three-year six-semester undergraduate program will have around 140 credits, and a four-year eight-semester honors degree program will have around 180 credits and a five-year ten-semester master’s degree programme will have 220 credits. The general features of the Credit Based Semester Scheme are; (a) (b) (c) (d) (e) The relative importance of subjects of study are quantified in terms of credits. The subjects of study include core, elective, ability/skill enhancement courses. The programme permits horizontal mobility in course

selections. The students shall take part in co-curricular and extension activities. The declaration of result is based on Semester Grade Point Average (SGPA) or Cumulative Grade Point Average (CGPA) earned. 4 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, DEFINITIONS OF KEY WORDS: (a) Academic Year: Two consecutive (one odd + one even) semesters constitute one academic year. (b) Choice Based Credit System (CBCS): (c) Course: (d) Credit Based Semester System (CBSS): (e) Credit: (f) Grade Point: (g) Credit Point: The CBCS provides choice for students to select courses from the prescribed courses (core, open elective, discipline elective, ability and skill enhancement language, soft skill etc. courses). Usually referred to, as ‘papers’ is a component of a programme. All courses need not carry the same weight. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/ tutorials/laboratory work/ field work/ project work/ vocational training/viva/ seminars/term papers / assignments / presentations/ self-study etc. or a combination of some of these. Under the CBSS, the requirement for awarding a degree /diploma /certificate is prescribed in terms of number of credits to be earned. A unit by which the course work is measured. It determines the number of hours of instructions required per week in a semester. One credit is equivalent to one hour of lecture or tutorial or two hours of practical work/field work per week in a semester. It will be generally equivalent to 13-15 hours of instructions. A numerical weight allotted to each letter grade on 10-point scale. It is the product of grade point and number of credits for a course. (h) Letter Grade: It is an index of the performance of students in a said course. Grades are denoted by letters O, A+, A, B+, B, C, P and F. (i) (j) Programme: Semester: (k) Semester Grade Point Average (SGPA): (l) Cumulative Grade Point Average (CGPA): (m) Transcript or Grade Card or Certificate: A programme leading to award of a Degree, diploma or certificate. Each semester will consist of over 16 weeks of academic work equivalent to 90 actual teaching days. The odd semester may be generally scheduled from June to November and even semester from January to May. It is a measure of performance of work done in a semester. It is the ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places. It is a measure of overall cumulative performance of a student over all the semesters of a programme. The CGPA is the ratio of total credit points secured by a student in various courses in all the semesters and sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places. Based on the grades earned, a Grade Card shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured etc.). 5 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, 3. PROGRAMMES: 3.1 Faculty of Science (a) Bachelor of Science, B.Sc. and Bachelor of Science with Honors, B.Sc. (Hons.), Master of Science, M.Sc. (Integrated) and Master of Science, M.Sc. in

various Disciplines/ Subjects, including Life/Biological Sciences. (b) Bachelor of Computer Applications, BCA, Bachelor of Computer Applications with Honors, BCA (Hons.) and Master of Computer Applications, MCA. (c) Bachelor of Science (Food Science and Nutrition), B.Sc. (FSN), Bachelor of Science (Food Science and Nutrition) with Honors, B.Sc. (FSN)(Hons.) and Master of Science (Food Science and Nutrition), M.Sc. (FSN).

3.2 Faculty of Commerce (a) Bachelor of Business Administration, BBA, Bachelor of Business Administration with Honors, BBA (Hons.) and Master of Business Administration, MBA.

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 years 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. 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).

6 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS- YUVARAJA COLLEGE, The candidates shall complete the courses equivalent to minimum credit requirements. Exit with Certificate at the Successful Completion of First Year (Two Semesters) of Four Years Multidisciplinary UG Degree Programme. A Diploma at the Successful Completion of the Second Year (Four Semesters) of Four Years Multidisciplinary UG Degree Programme. Credits Requirement* 48 NSQF Level 5 96 Basic Bachelor Degree at the Successful Completion of the Third Year (Six Semesters) of Four Years Multidisciplinary Undergraduate Degree Programme. 6 140 7 180 Bachelor Degree with Honours in a Discipline at the Successful Completion of the Four Years (Eight Semesters) Multidisciplinary Undergraduate Degree Programme.

*Details of courses to be successfully completed equal to minimum credits requirement are described later.

8 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. A candidate who successfully completes a three year Bachelor's Degree, with a minimum

CGPA of 7.5 and wishes to pursue the fourth year of the undergraduate programme by research, shall be allowed to continue the programme with Research to obtain the Bachelor Degree with Honours by Research, while other candidates may continue their studies in the fourth year of the undergraduate programme with or without a research project along with other courses as prescribed for the programme to complete their Bachelor's Degree with Honours. Candidates who successfully complete their four years Bachelor's Degree with Honours, either by research or course work with research component and a suitable grade are eligible to enter the 'Doctoral (Ph.D.) Programme' in a relevant discipline or to enter the 'Two Semester Master's Degree programme'. Candidates who wish to complete the undergraduate and the postgraduate programmes faster, may do so by completing the different courses equal to the required number of credits and fulfilling all other requirements in N-1 semesters (N is number of semesters of an UG/PG programme). This facility is available for the programmes with a minimum duration of three years or six semesters. For example, a candidate may obtain his/her Six Semesters Bachelor's Degree, after successfully completing five semesters of the programme, provided he/she has completed courses equal to the required/ prescribed number of credits and fulfills all other requirements for awarding the degree. Likewise, a candidate may obtain his/her Eight Semesters Bachelor's Degree with Honours, after successfully completing seven semesters of the programme, provided he/she has completed courses equal to the 7 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, required number of credits and fulfills all other requirements for awarding the Bachelor's Degree with Honours. Similarly, candidates may complete both the undergraduate and the postgraduate programmes in slow track. They may pursue the three years or six semester programmes in 4 to 5 years (8 to 10 semesters) and four years or eight semester programmes in 5 to 6 years (10 to 12 semesters). As a result, the higher education institutions have to admit candidates not only for programmes, but also for subjects or courses. But the new admissions are generally made in the beginning of an academic year or the beginning of odd semesters.

National Skills Qualifications Framework: The National Skills Qualifications Framework (NSQF) is a competency-based framework that organizes qualifications according to a series of knowledge, skills and aptitude. The NSQF levels, graded from one to ten, are defined in terms of learning outcomes which the learner must possess regardless of whether they are obtained through formal, non-formal or informal learning. National Occupational Standards (NOS) are statements of the skills, knowledge and understanding needed for effective performance in a job role and are expressed as outcomes of competent performance. They list down what an individual performing that task should know and also are able to do. These standards can form the benchmarks for various education and training programs to match with the job requirements. Just as each job role may require the performance of a number of tasks, the combination of NOSs corresponding to these tasks form the Qualification Pack (QP) for that job role. The

NOSs and QPs for each job role corresponding to each level of the NSQF are being formulated by the respective Sector Skill Councils (SSCs) set up by National Skill Development Corporation(NSDC) with industry leadership. The curriculum which is based on NOSs and QPs would thus automatically comply with NSQF. General Education has to be synchronized/ aligned with skill and Vocational Education as per National Skills Qualifications Framework. The level descriptors are given below as described in UGC Guidelines on National Skills Qualifications Framework. The curriculum should be designed in a manner that at the end of year-1, year-2 and year-3, students are able to meet below mentioned level descriptors for level 5, 6 and 7 of NSQF, respectively: 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.

8 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, 9 Levels

Process required Professional knowledge Professional skill Core skill Responsibility

Level 5 Job that requires well developed skill, with clear choice of procedures in familiar context. Knowledge of facts, principles, processes and general concepts, in a field of work or study. A range of cognitive and practical skills required to accomplish tasks and solve problems by selecting and applying basic methods, tools materials and information. Desired mathematical skill, understanding of social, political and some skill of collecting and organizing information, communication. Responsibility for own work and learning & some responsibility for other's works and learning.

Level 6 Demands wide range of specialized technical skill, clarity of knowledge and practice in broad range of activity involving standard / non standard practices. Factual and Theoretical knowledge in broad contexts within a field of work or study A range of cognitive and practical skills required to generate solutions to specific problems in a field of work or study. Reasonably good in Mathematical calculation, Understanding of social, political and, reasonably good in data collecting organizing information, and logical communication Responsibility for own work and learning and full responsibility for other's works and learning

Level 7 Requires a command of wide ranging specialized theoretical and practical skill, involving variable routine and non routine context. Wide ranging, factual and theoretical knowledge in broad contexts within a field of work or study Wide range of cognitive and practical skills required to generate solutions to specific problems in a field of work or study. Good logical and mathematical skill; understanding of Social, political and natural environment; ability in collecting and organizing information, communication and presentation skill. Full responsibility for

output of group and Development. Professional knowledge is what a learner should know and understand with reference to the subject; Professional skills are what a learner should be able to do and; Core skills refer to basic skills involving dexterity and use of methods, materials, tools and instruments used to perform job including IT skills needed for that job, Responsibility aspect determines (i) nature of working relationship, (ii) level of responsibility for self and others, (iii) managing change and (iv) accountability for actions. The Integrated Master's Degree Programmes shall extend over Five academic years (Ten Semesters) with exit options with 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 Programme would lead to Master Degree in a subject. Credit Requirements (Eligibility): The candidates shall complete courses equivalent to a minimum of; 140 Credits Regular Bachelor Degree. 180 Credits Bachelor Degree with Honours. 220 Credits Integrated Master's Degree. Master's Degree Programmes: (a) One Academic Year (Two Semesters)- for the Four Years Honours Degree holders. (b) Two Academic Years (Four Semesters)-for the three years basic or three years Degree holders. Two Years Master's Degree Programmes: (a) 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 complete courses equal to a minimum of 44 credits. (b) 44 Credits After the Bachelor Degree to become eligible for the PG Diploma. (c) 88 Credits After the Bachelor Degree to become eligible for the Master Degree. NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, 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 rejoin 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.

5. ACADEMIC BANK OF CREDITS (ABC) The Academic Bank of Credits (ABC), a national-level 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. The

multiple entry and exit options for students is facilitated at the undergraduate and Master's levels. It would facilitate credit accumulation through the facility created by the ABC scheme in the "Academic Bank Account" opened for students across the country to transfer and consolidate the credits earned by them by undergoing courses in any of the eligible HEIs. The ABC allows for credit redemption through the process of commuting the accrued credits in the Academic Bank Account maintained in the ABC for the purpose of fulfilling the credits requirements for the award of certificate/ diploma/degree by the authorized HEIs. Upon collecting a certificate, diploma or degree, all the credits earned till then, in respect of that certificate, diploma or degree, shall stand debited and deleted from the account concerned. HEIs offering programmes with the multiple entry and exit system need to register in the ABC to enable acceptance of multidisciplinary courses, credit transfer, and credit acceptance. The validity of credits earned will be for a maximum period of seven years or as specified by the Academic Bank of Credits (ABC). The procedure for depositing credits earned, its shelf life, redemption of credits, would be as per UGC (Establishment and Operationalization of ABC scheme in Higher Education) Regulations, 2021. Monitoring, Support and Quality Assurance by Universities and ABC:

1. It shall be the responsibility of Registered Higher Education Institutions, to monitor the development and operationalization of the ABC programme at the university level and at the level of their affiliated autonomous colleges.
2. Registered Higher Education Institutions shall offer teacher or staff training, mentoring, academic and administrative audit and other measures for improving the quality of performance of the ABC facility and promotion of holistic/ multidisciplinary 10 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, education with the support of ABC, which may be in the form of Faculty Development Programmes or Quality Improvement Programmes or Professional Development Programmes or Technology Inculcation Programmes.
3. The Quality assurance of the implementation of ABC at the level of the registered university or autonomous college shall be developed by the University or autonomous college concerned either through the Internal Quality Assurance Cell (IQAC) or any other appropriate structured mechanism as may be decided by the Registered Higher Education Institution.
4. Every Registered Higher Education shall upload, annually, on its website, a report of its activities vis a vis the Academic Bank of Credits, as well as of measures taken by it for Quality assurance, Quality sustenance and Quality enhancement.
5. There shall be an Academic Bank of Credits-Grievance Redressal Mechanism at the level of Central Government/University Grants Commission/Academic Bank of Credits, and at the level of every Higher Education Institution registered with Academic Bank of Credits to address the grievance/appeals of students.

Study Webs of Active Learning for Young Aspiring Minds (SWAYAM:) is India's national Massive Open Online Course (MOOC) platform (www.swayam.gov.in), designed to achieve the three cardinal principles of India's Education Policy: access, equity, and quality. The University Grants Commission (Credit Framework for Online

Learning Courses through SWAYAM) Regulations, 2021 have been notified in the Gazette of India, which now facilitates an institution to allow up to 40 per cent of the total courses being offered in a particular programme in a semester through the online learning courses offered through the SWAYAM platform. Universities with approval of the competent authority may adopt SWAYAM Courses for the benefit of the students. A student will have the option to earn credit by completing quality-assured MOOC programmes offered on the SWAYAM portal or any other online educational platform approved by the UGC/ the regulatory body from time to time.

6. ELIGIBILITY FOR ADMISSIONS:

6.1. B.Sc. (Basic and Hons. degrees) and M.Sc. (Integrated) Programmes: A candidate who has passed the two years Pre-University Examination conducted by the Pre-University Education Board in Karnataka or any other examination considered as equivalent thereto shall be eligible for admission to these programmes. Generally, a candidate to opt a subject should have studied that subject at the qualifying examination. Psychology, Home Science etc. may be exceptions to this requirement. But additional Conditions of Eligibility are required for specific subjects as follows: Candidate to opt core subject (a) Physics Should have studied the below subjects at the qualifying examination Mathematics in addition to Physics. (b) Biochemistry (c) Chemistry Biochemistry or Chemistry. Chemistry. (d) Statistics Statistics or Mathematics. 11 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, (e) Biotechnology, Botany/Applied Botany, Microbiology or Zoology /Applied Zoology Biotechnology, Botany/Applied Botany, Microbiology or Zoology /Applied Zoology or Biology. (f) Geology/Environmental Science (g) Home Science or Library and Information Science M.Sc. (Integrated) At least two Science subjects. Any subjects. (h) Programme: Molecular Biology

6.2. B.C.A. Basic and Honours Degree and B.B.A. Basic and Hons. degree: B.C.A. (Basic and Honours Degree) B.B.A. (Basic and Hons. Degree) A candidate who has passed the two years Pre-University Examination conducted by the Pre-University Education Board in Karnataka or JODC / Three years Diploma in Engineering of Government of Karnataka or any other examination considered as equivalent thereto shall be eligible for admission. 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.

6.3. (a) (b) (c) 7. ELIGIBILITY FOR ADMISSION to POST-GRADUATE PROGRAMMES: 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.

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.

MEDIUM OF INSTRUCTION: The medium of instruction and examination shall be English or Kannada.

12 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, 8. 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 Appendix A and Appendix B.

Category of courses Objective/Outcome

(a) Languages (b) Ability Enhancement Courses (c) Skill Enhancement/ Development Courses / Vocational courses (d) Foundation/ Discipline based Introductory Courses (e) Major Discipline Core Courses

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. 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. 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 /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. 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 13 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, that each institution adheres to a common minimum standard which makes credit transfer and mobility of students easier. (f) Major Discipline Elective Courses (g) Minor Discipline Courses (h) Open or Generic Elective Courses (i) (j) Project work/ Dissertation/ Internship/ Entrepreneurship Sports, Cultural and Extension Activities Elective Course is a course 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. Elective courses offered under the main discipline are 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. 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. 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. 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 is to offer the students the option to explore disciplines of interest beyond the choices in core and discipline specific electives. Note: A core course offered in a discipline/subject may be treated as an elective by other discipline/subject and vice versa, such electives are referred as Open/Generic Electives. Project work is a special course involving application of knowledge in solving / analyzing / exploring a real life situation / difficult problem/ data analysis. I 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. 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.

14 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, 8.1. 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. (i) Environmental Studies and (ii) 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 KSHCEC/

National Regulatory Bodies such as UGC or GEC/ NHERC or the universities may frame some papers, in addition to the list suggested.

8.2. 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) (c) 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.

Speech/hearing/visually impaired/mentally challenged and study disabled students are exempted from studying one of the languages prescribed under para 8.2 above.

8.3. Skill Enhancement Courses (Common for all Programmes): (a) 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: Semester B.Sc./B.C.A./M.Sc. (Integrated) Digital BBA I/II Fluency/Financial Literacy/Banking & Finance. Digital Fluency/ Creativity and Innovation. III/IV Artificial Intelligence/ Creativity and Innovation. Artificial Intelligence/Critical thinking & problem solving.

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V Cyber Security/Entrepreneurship. Cyber Security/Entrepreneurship. VI Professional Communication/ Professional German / French. VII/VIII Critical thinking problem solving/Cultural Awareness. Communication/ German / French. & Science and Society/ Cultural Awareness.

(b) One soft core course or allied subject each in the seventh and eight semesters of the Honours programme and the integrated Master 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. 8.4. (a) Core Subjects for B.Sc. Degree / Honours Degree Programmes A candidate may opt for any two core subjects for B.Sc. degree/Honours degree programmes. The core subjects that a candidate can choose under the Faculty of Science, permitted by the university from time to time. (b) Core Subjects Based Programme: In these programmes, there is no need to choose core subjects as these are subject based. B.C.A. Degree / Honours Degree Programme in Computer Applications. B.B.A. Degree / Honours Degree Programme

8.5. Vocational Subjects: Advertising, Computer Applications, Communicative English, 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.

8.6. Sports, Cultural 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) (g) Community work such as promotion of values of National Integration, Environment, Human rights and duties, Peace, Civic sense etc. A Small project work concerning the achievements of India in different fields. (h) Evolution of study groups/seminar circles on Indian thoughts and ideas.

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(i) (j) Activity exploring different aspects of Indian civilizations. Involvement in popularization programmes such as scientific temper. (k) Innovative compositions and creations in dance/music/theatre and visual arts. (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.

8.7. Choosing of Related Subjects in Science: (a) A candidate shall not opt for more than one language under core subjects. (b) A candidate opting for Electronics/Physics/Statistics/Computer Science as a core subject may also opt for Mathematics as a core subject. (c) A candidate opting for Biotechnology as a core subject may also opt Chemistry/ Biochemistry and Microbiology/Botany/Zoology/Home Science as a core subject. (d) A candidate opting for Microbiology as a core subject may also opt for Chemistry / Biochemistry and Biotechnology / Botany / Zoology / Home Science as core. (e) (f) (g) 9. A candidate opting for Biochemistry as a core subject may also opt for Biotechnology/ Botany / Zoology / Sericulture / Microbiology as core subject. A candidate opting for Environmental Science as a core subject may also opt for Chemistry / Biochemistry and Botany / Zoology / Microbiology / Biotechnology / Sericulture / Geology as core and open elective subjects, respectively. A candidate opting for Genetics as a core subject may also opt for and Botany / Zoology / Microbiology / Biotechnology /

Sericulture and Chemistry/ Biochemistry as core and open elective subjects, respectively.

ATTENDANCE AND CHANGE OF SUBJECTS: (a) 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. (b) An option to change a language/subject may be exercised only once within four weeks from the date of commencement of the I/III Semester on payment of fee prescribed. (c) 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. (d) 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. (e) 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.

10. 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 Appendix A & Appendix B. The Syllabi of the courses shall be as prescribed by the University.

11. (A). 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. 18 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, (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. 11. (B). BLENDED MODE (BL) AS A NEW MODE OF TEACHING-LEARNING: UGC suggests implementing Blended Mode (BL) as a new mode of teaching learning in higher education. BL is not a mere mix of online and face-to-face mode, but it refers to a well-planned combination of meaningful activities in both the modes. The blend demands consideration of several factors, mainly focusing on learning outcomes and the learner centred instructional environment. 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. Implementing BL requires a systematic, planned instructional process. An effective teaching learning process in a blended environment calls for understanding and skills of using appropriate pedagogies with suitable technologies. The UGC Concept Note provides guidelines for implementation of BL. BL mode will provide this opportunity to learners to a great extent. Resources can be uploaded and external links can be posted on Learning Management systems prior to classroom sessions. These Out-of-class resources prove useful at least for acquiring information. Once the students study through the resources, classroom time can be utilized fruitfully in discussions. Online platforms such as discussion forums, shared documents, blogs, etc. may be used to help them share their ideas and knowledge on a common platform. 11. (C). Pedagogies for Online and Face-to-face Modes: Learner-centred teaching-learning activities include several cognitive processes which enable learners to be communicative, confident, creative and cooperative. Learners in BL environments are not visualised as passive learners, but active learners generating ideas, assimilating knowledge individually and in teams. Once learning resources are provided on an online platform, students sitting in the classroom need not again listen to the instructor. The time, then, can be used for engaging them in activities. Even their online time can be used innovatively for making online sessions more effective and interesting. There are a few learning processes for both online and face-to-face mode. Higher education learners are adult learners who come with their own

world of experience, previous knowledge gained at schooling level and previous years of education, exposure to other sources of knowledge, etc. Even pre-session resources suggested by teachers help them some knowledge, information. Lecturing of teacher assuming the learners are empty boxes is no more a preferred pedagogy. Learners, instead, can contribute by sharing their knowledge, ideas, views, either in the classroom or else on online platforms. Brainstorming exercise always helps learners to think spontaneously; derive solutions, ideas; appreciate others' ideas and enjoy generation of several ideas by the whole group instead of listening to only teachers' ideas and views. It develops a sense of responsibility to think and learn ourselves. In addition to Brainstorming, Concept-mapping/Mind-mapping, Creative Presentations, Exposure to the real world, Case Study, Cooperative Learning 19 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, Strategies are a few learning processes for both online and face-to-face mode. Hence the area of assessment and evaluation needs to be explored again in the light of BL mode.

12. (A). Continuous Comprehensive Evaluation: Summative evaluation will not suffice the need of testing all levels of learning outcomes. Modular curriculum demands assessment at several intervals during and after achievement of learning outcomes specified for every module. Cognitive skills such as logical thinking application of knowledge and skills, analysis and synthesis of concepts and rules demands evaluation strategies other than summative paper pencil tests. Innovative evaluation strategies are to be used by teachers during the semester. Increased weightage of internal evaluation should be encouraged by including innovative assessment and evaluation strategies.

12. (B). Innovative trends in Evaluation and Assessment: Out-of-box thinking about summative as well as formative evaluation is expected from the teacher implementing BL mode. The following paragraphs throw light on a few innovative strategies. The list is not exhaustive but mentions a few points with the expectation of continuous exploration of such strategies by the teachers.

12. (i) (ii) (C). Summative Evaluation Strategies: Open book examination: It is a right way to move away from the conventional approach of examination where remembering and reproducing is prime. In real functioning beyond formal education, life is all about open book examination. Hence in Higher Education system, we must prepare students for work life by making them acquainted with open book examinations. It will also facilitate better understanding and application of the knowledge with a better potential for its positive impact. Group examinations even for conventional theory papers: Such an approach is followed some time for project and also laboratory assessments. But for theory type examinations it is generally not followed. The group examinations once introduced for theory papers can improve the average performance of a class as students would be encouraged to share their knowledge with each other and also help them improve their general understanding (iii) Spoken / Speaking examinations: These types different approached can be introduced now with the support of new generation of technologies. They can make examination faster and easier

and also can be helpful to students with different abilities. (iv) On demand examinations: In most cases students are forced to write examination in a single go and collectively. However, with advent of new methods which are technology based and also blending of teaching-learning and examinations in new form, it would be a good approach to offer examination on demand to offer more flexibility and student centricity. 12. (i) (D). Formative Evaluation Strategies: ePortfolio: ePortfolio is not only a compilation of a few best assignments, activities of a learner throughout the programme, but his/her reflections about the assignments, experience and challenges faced during the process of working on these 20 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, assignments, overall approach, attitude, philosophy towards life as a learner and also his/her academic resume. ePortfolio is a comprehensive tool which becomes a mirror to a learner for the world. (ii) Creative Products: Innovative Pedagogies and relevant ICT tools enable learners to come out with creative products as an individual or group learning activities. These products are learning experiences in the beginning, but learners should always be given corrective feedback about their outputs. Once feedback is sought, learners need to be given chance to improve on their products and then can be considered for formative evaluation. e.g. preliminary concept-map can be revised after discussion of the topic, summarization and feedback. Revised concept- map can be assessed. One creative/collaborative activity may then be led towards the another product which can be an assessment activity. e.g. Group or individual presentations by self-learning would be a learning activity and not an assessment activity. Once teacher provided corrective feedback during such presentations, learners can be expected to revise the same presentations, add a small write-up/infograph/video to it and submit as an assignment. Creative assignments such as digital stories, Cartoon strips, drama scripts, eNewsletter, eMagazine, Recorded interviews of stakeholders, Case studies, etc. can be used for formative assessment. (iii) Classroom/Online Quizzes: Though paper-pencil tests, over-use of question answers may be discouraged for formative assessments, a few ICT tools for quizzes and games can be used eventually for formative assessment. 12. 13. (a) (b) (c) (E). Use of AI tools for Proctoring as well as assessments: During the Covid time, many exams were forced to be conducted in an online mode. These were supported by variety of tools which came into being in recent times and were based on proctoring through Artificial Intelligence tools. However, AI as technology can be used for many more assessments like, attention levels, speed of learning, level of learning etc. Hence new tools should be experimented with for examinations and assessments. ASSESSMENT AND EVALUATION: Assessment is an integral part of the teaching learning process. A multidisciplinary program requires a multidimensional assessment to measure the effectiveness of the diverse courses. The assessment process acts as an indicator to both faculty and students to improve continuously. The following are the guidelines for effective assessment of the program. Student assessment should be as comprehensive as possible and provide meaningful and

constructive feedback to faculty and student about the teaching learning process. Assessment tasks need to evaluate the capacity to analyze and synthesize new information and concepts rather than simply recall information previously presented. The process of assessment should be carried on in a manner that encourages better 21 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, student participation and rigorous study. (d) (e) (f) (g) Assessment should be a combination of continuous formative evaluation and an end-point summative evaluation. A range of tools and processes for assessment should be used (e.g. open book tests, portfolios, case study/assignments, seminars/presentations, field work, projects, dissertations, peer and self-assessment) in addition to the standard paper-pencil test. 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 shall be immediately provided to the students. Paper-pencil tests should be designed rigorously using a range of tools and processes (e.g. constructed response, open ended items, multiple-choice with more than one correct answer). Faculty may provide options for a student to improve his / her performance in the continuous assessment mode. Continuous/ Internal assessment marks shall be shown separately. A candidate who has failed or wants to improve the result, shall retain the IA marks, provides he/she fulfils the minimum requirements.

13.1 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. Theory Total Marks for each course 100% Marks Practical Continuous assessment (C1) 100% Marks 20% Marks Continuous assessment (C2) 20% Marks 20% Marks Semester End Examination (C3) 30% Marks 60% Marks 50% Marks Evaluation process of IA marks shall be as follows: (a) (b) (c) (d) 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. The second component (C2) of assessment is for 20% marks. This shall be based on test, assignment, field work, industrial practicum, etc. This assessment and score process should be based on completion of remaining 50 percent of syllabus of the courses of the semester. 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 will be the maximum marks of 60%. 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 22 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF

EXAMINATIONS-YUVARAJA COLLEGE, 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) (f) (g) (h) (i) (j) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under.

Evaluation of Internal Assessment Marks	
C1 (7-8th week)	C2 (14-15th week)
Total Marks	Session Test 10 Marks
Assignment/Report 10 Marks	Total 20 Marks
10 Marks	10 Marks
20 Marks	20 Marks
20%	20%
40%	

For practical course of full credits, marks shall be awarded for Practical Record— Maintenance (the ratio is 50% : 50%). Conduct of Case study / Assignment, etc. can be either in C1 or in C2 component— at the convenience of the concerned teacher. The teachers concerned shall conduct test / 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 Principal / HOD in the case of Colleges. 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. The marks of the internal assessment shall be published on the notice board of the department / college for information of the students. The Internal assessment marks shall be communicated to the Controller of Examinations at least 10 days before the commencement of the examinations and the Controller of Examinations (CE) shall have access to the records of such periodical assessments. There shall be no minimum in respect of internal assessment marks. Internal assessment marks may be recorded separately. A candidate who has failed or rejected the result, shall retain the internal assessment marks. If the student has passed in the practical exam by securing prescribed marks need not reappear for the practical exam if he/she has failed in the theory examination. 23 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, 14. CONDUCT OF EXAMINATIONS: A candidate shall register for all the courses/papers of a semester for which he/she fulfils the requirements, when he/she appears for examination of that semester for the first time. (a) (b) (c) 15. (a) (b) (c) (d) (e) (f) There shall be Theory and Practical examinations at the end of each semester, ordinarily during November-December for odd semesters and during May-June for even semesters, as prescribed in the Scheme of Examinations. Unless otherwise stated in the schemes of examination, practical examinations shall be conducted at the end of each semester. The statement of marks sheet and the answer books of practical examinations shall be sent to the Registrar (Evaluation)/Controller of Examinations by the Chief Superintendent of the respective Colleges immediately after the practical examinations.

The candidate shall submit the record book for practical examination duly certified by the course teacher and the HOD/staff in-charge. It shall be evaluated at the end of the Semester at the practical examination. MINIMUM FOR A PASS: 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. 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. 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+). A candidate who passes the semester examinations in parts is eligible for only Class, CGPA and Alpha-Sign Grade but not for ranking. 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. If a candidate fails in a subject, either in theory or in practicals, 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 practicals, separately) as stated above.

24 NEP REGULATIONS, CURRICULUM MODELS, SCHEME OF EXAMINATIONS-YUVARAJA COLLEGE, 16. CARRY OVER: Candidates who fail in lower semester examinations may go to the higher semesters and take the lower semester examinations. 17. CLASSIFICATION OF SUCCESSFUL CANDIDATES: 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 Science/Commerce.— Bachelor's Degree in— Science/Commerce. Diploma in 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 semesters Master's Degree Programmes are also classified on the basis of CGPA of two semesters of the Master's Degree Programmes. Semester

Table I: Final Result /Grades Description: GPA/ Program CGPA Alpha-Sign/ Letter

Grade	Semester/Program	% of Marks	9.00-10.00	O (Outstanding)	90.0-100	Result/Class
Description						8.00-

Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the Institution

Mapping of

Local, National, Regional and Global developmental needs of the curriculum

Focus on employability/entrepreneurship/ skill development offered by the institution for the year 2023-24

Sl. No	Name of the course	Course code/specific code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development
1	Chemical Foundations of Biochem-1	BSCNEPBICYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
2	OE: Biochemistry in Health and Diseases	BSCNEPBICYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
3	Chemical Foundations of Biochem-2	BSCNEPBICYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
4	OE: Nutrition and Dietetics	BSCNEPBICYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
5	Volumetric Analysis Practical	BSCNEPBICYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
6	Qualitative and Quantitative Analysis Practical	BSCNEPBICYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
7	Bioorganic Chemistry	BSCNEPBICYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
8	Bioorganic Chemistry Practical	BSCNEPBICYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.

9	OE: Biochemical techniques	BSCNEPBICYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
10	OE: Biochemical Toxicology	BSCNEPBICYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
11	Analytical Biochemisty	BSCNEPBICYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
12	Analytical Biochemistry Practical	BSCNEPBICYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
13	Biochemistry of Biomolecules and nutrition	BSCNEPBICYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
14	Qualitative analysis of biomolecules and their nutritional aspects	BSCNEPBICYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
15	Human Physiology and enzymology	BSCNEPBICYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
16	Human Physiology and enzymology Practical	BSCNEPBICYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
17	A- Microbial Biochemistry / B - Cell Biology	BSCNEPBICYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
18	Genetics and counseling / Nutritional Biochemistry.	BSCNEPBICYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
19	Metabolism with clinical correlations	BSCNEPBICYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
20	Metabolism with clinical correlations Practical	BSCNEPBICYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
21	Molecular Biology and Immunology	BSCNEPBICYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
22	Molecular Biology and Immunology Practical	BSCNEPBICYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
23	A- Genetic Engineering/ B- Cancer Biology	BSCNEPBICYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
24	A- Biochemistry/ B. Biostatistics and bioinformatics	BSCNEPBICYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
25	Microbial Diversity and Technology	BSCNEPBOTYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.

26	Microbial Diversity and Technology Practical	BSCNEPBOTYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
27	Diversity of non Flowering plants	BSCNEPBOTYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
28	Diversity of non Flowering plants Practical	BSCNEPBOTYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
29	Plant Anatomy and developmental biology	BSCNEPBOTYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
30	Plant Anatomy and developmental biology P	BSCNEPBOTYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
31	Ecology and conservation Biology	BSCNEPBOTYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
32	Ecology and conservation Biology-P	BSCNEPBOTYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
33	Plant Morphology and Taxonomy	BSCNEPBOTYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
34	Plant Morphology and Taxonomy -P	BSCNEPBOTYCM	Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
35	Genetics and Plant Breeding	BSCNEPBOTYCM	Toxicologist, Government healthcare institutions, Chemical Engineer, Forensic Scientist, Research Scientist, Clinical Biochemist.
36	Genetics and Plant Breeding -P	BSCNEPBOTYCM	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
37	Plant Physiology and Plant Biochemistry	BSCNEPBOTYCM	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
38	Plant Physiology and Plant Biochemistry - P	BSCNEPBOTYCM	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.

39	Plant Biotechnology	BSCNEPBOTYCM	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
40	Plant Biotechnology - P	BSCNEPBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
41	landscaping and Gardening	BSCNEPBOTYCM	Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching, Botanist.
42	Mushroom cultivation technology	BSCNEPBOTYCM	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
43	floriculture	BSCNEPBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
44	Cell Biology and Genetics	BSCNEPBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
45	Cell Biology and Genetics Practical	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
46	Biotech for human welfare	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
47	Microbiological methods and Techq	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
48	Microbiological methods and Techq- P	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
49	Applications of biotechnology in Agri	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
50	Biomoleules	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
51	Biolomoleucle practical	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
52	OENuritution and health	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
53	molecular biology	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.

54	molecular biology -P	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
55	OE Intellectual Property rights	BSCNEPBITYCM	IPR agents, law assistants patent officer
56	Genetic Engineering	BSCNEPBITYCM	teaching Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
57	Genetic Engineering -P	BSCNEPBITYCM	Research associate, project asst. Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
58	Plant and animal Biotechnology	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
59	Plant and animal Biotechnology -P	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
60	Biotechnology skills and analytical techniques	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
61	Biotechnology skills and analytical techniques -P	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
62	quality control methods in biology-P	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
63	Immunology	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
64	Immunology -P	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
65	bioprocess and environmental biotechnology	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
66	bioprocess and environmental biotechnology -P	BSCNEPBITYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
67	Chemistry-1	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
68	Chemistry -2	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
69	Chemistry in Daily life	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.

70	Chemistry-1 Practical	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
71	Chemistry -2- pratical	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
72	Molecules of life	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
73	Chemistry -3	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
74	Chemistry -3 P	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
75	Chemistry -4	BSCNEPCHEYCM	Manufacturing industries, Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
76	Chemistry -4 P	BSCNEPCHEYCM	teaching,Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.Industrail work
77	OE Atomic structure, B and C in O Chemistry OEC-3	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
78	OE Electrochemistry, Corrosion and Metallurgy	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
79	Chemistry paper-V	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
80	Chemistry paper-V-P	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
81	Chemistry paper -VI	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
82	Chemistry paper-VI-P	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
83	Chemistry paper-VII	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
84	Chemistry paper-VII-P	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.

85	Chemistry paper-VIII	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
86	Chemistry paper-VIII-P	BSCNEPCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
87	Computer Fundamentals and Programming in C	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security,IT Operations and Governance.
88	C Programming Practical	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security,IT Operations and Governance.
89	Office autamation	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security,IT Operations and Governance.
90	Data structure and using C pragraming	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security,IT Operations and Governance.
91	Data structure&Using C practical	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security,IT Operations and Governance.
92	C programming Concepts	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security,IT Operations and Governance.
93	Data structures lab	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security,IT Operations and Governance.
94	Python programming concepts	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security,IT

			Operations and Governance.
95	Multimedia processing	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
96	Object Oriented Programming in JAVA	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
97	JAVA programming Lab P	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
98	Database Management systems	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
99	DBMS Lab	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
100	Artificial Intelligence	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
101	OE Python Programming Concept	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
102	Fundamentals of Multimedia	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.

103	programming Python	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
104	programming Python -P	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
105	Computer networks	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
106	Computer networks -P	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
107	cyber security	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
108	cyber security -P	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
109	web technology	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
110	web technology -P	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
111	statistical computing and R programming	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.

112	R programming -P	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
113	internship	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
114	internship-P	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
115	Electronic Devices and Circuits	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
116	Fundamentals and electronics & D wirg	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
117	Domestic equipmment and manintenance	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
118	Analog and digital electronics	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
119	Fundamental of semiconductive devices	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
120	Renewable energy and energy harvesting	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
121	PCB design and fabrication	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
122	Electronic Devices and Circuits Practical	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.

123	Analog and digital electronics- practical	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
124	Analog and digital electronics- practical	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
125	Programming in C and digital design using Verilog	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
126	Programming in C and digital design using Verilog Practical	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
127	Electric Communication-I	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
128	Electric Communication-I P	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
129	electronic communication-II	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
130	electronic communication-II P	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
131	embedded controllers	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
132	embedded controllers P	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
133	signals and systems	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
134	signals and systems P	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.

135	sensors and internet of things	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
136	mini projects	BSCNEPELEYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
137	English (AECCL2-1)	BSCYCMNEPYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
138	English (AECCL2-1)	BSCYCMNEPYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
139	Divisions of Environment	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
140	Environmental conservation movements	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
141	Environmental sustainable agriculture	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
142	Environmental pollution	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
143	Ecology - theory and practice	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
144	Water quality analysis Practical	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
145	Ecology - Analysis Practical	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
146	Climate change and its implications	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
147	Environment and public health in C S	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
148	Wild Life and conservation	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
149	Natural resources and management	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and

			social sciences
150	Mineralogy, Petrology, energy resources and medicinal plants P ES3P1	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
151	OE Women and environment	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
152	OE Environmental disasters and management	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
153	Biodiversity, wildlife and conservation	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
154	Biodiversity assessment and ecosystem services P	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
155	OE Environment and sustainable agriculture	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
156	OE Initiatives for environmental management	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
157	Ability enhancement compulsory course AECC	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
158	air pollution, water pollution and e engineering	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
159	air and water analysis -P	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
160	environmental chemistry and instrumentation	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
161	soil analysis,noise measurement solid waste a -P	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
162	environmentalmicrobiology & biotechnology	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
163	environmentalmicrobiology & biotechnology -P	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
164	environmental impact assessment & risk assessment	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences

165	methods of environmental impact Assessment risk - P	BSCNEPENVYCM	Atmospheric sciences, ecology, environmental chemistry, geosciences, and social sciences
166	Human Physiology	BSCNEPENVYCM	Research associate, teaching
167	Human Physiology Practical	BSCNEPENVYCM	Research associate, teaching
168	Basics of food Science	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
169	Basics of Nutrition	BSCNEPENVYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
170	Fundamentals of human nutrition	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
171	Healthy life style	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
172	Culinary science	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
173	Prinicples of food Science	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
174	Fundamentals of human nutrition Practical	BSCNEPENVYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
175	Prinicples of food Science Practical	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
176	Food Adulteration & C Nurtitional Pr	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
177	Life Cycle of Nutrition	BSCNEPENVYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
178	Life cycle of Nutrition Practical	BSCNEPENVYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
179	Food safety and Hygeine	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.

180	Indian Traditioanl foods	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
181	Principles of Food Science	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
182	Principles of Food Science P	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
183	OE Food adultration Common Nutritional problems	BSCNEPENVYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
184	OE Common Nutritional problems	BSCNEPENVYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
185	Life cycle nutrition	BSCNEPENVYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
186	Life cycle nutrition P	BSCNEPENVYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
187	OE Food safety and hygiene	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
188	OE Indian traditional foods	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
189	Food Preservation	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
190	Food Preservation -P	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
191	principles of diet therapy	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
192	principles of diet therapy -P	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.

193	A- Diet counseling	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
194	B- Baking and confectionary skills	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
195	food microbiology	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
196	food microbiology -P	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
197	Therapeutic nutrition	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
198	Therapeutic nutrition -P	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
199	internship -P	BSCNEPENVYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
200	Maps, Sediment Soil, Field Visit Practical	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
201	Crystallography,mineralogy & E.Min	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
202	Pedology	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
203	Basics of earthsystem and science	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
204	Geo hazards & mitigation Strategies	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
205	basis of Crystallography, Mlg & petro	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.

206	Medical geology	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
207	Industrial Geology	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
208	paleobiology	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
209	Gems and ornmental stones	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
210	Principles of Stratigraphy and palenotology	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
211	Principles of Stratigraphy and palenotology Practical	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
212	Principles of Stratigraphy and palenotology	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
213	Stratigraphy and palenotology P	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
214	Structural Geology and Hydrogeology	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
215	Hydrogeology and structural Geology P	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
216	OE Dimension stone technology	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
217	OE Marine Geology	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
218	OE Climatology	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
219	OE Watershed Management	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
220	OE The Geology and Society	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
221	OE Geophysical Exploration	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist,

			Research scientist.
222	OE Geostatistics	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
223	OE Geotourism	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
224	ore geology and indian mineral deposits	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
225	ore geology and indian mineral deposits-P	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
226	remote sensing, GIS and GPS and Marine Geology	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
227	remote sensing, GIS and GPS and Marine Geology-P	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
228	exploring geology and mining geology	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
229	exploring geology-P	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
230	engineering geology, geochemistry, Disaster and natural hazards management	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
231	engineering geology and geochemistry-P	BSCNEPGEOYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
232	Algebra - I and Calculus-I	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
233	Theory Practical's on Algebra -I and Calc – I Practical	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
234	Optional mathematics	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner,

			Insurance Underwriter.
235	Bussiness mathematics	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
236	Mathematical aptitude-I	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
237	Algebra - II N Theory and Calculus	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
238	Algebra - II Practical II	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
239	Optional mathematics-II	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
240	Bussiness mathematics-II	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
241	Mathematical aptitude- ii	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
242	Algebra III and Differential equation-I	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.

243	Algebra III and Differential equation-I P	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
244	OE Discrete Mathematics	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
245	OE Mathematical aptitude- III	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
246	Real Analysis- I and Differential equation- II	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
247	On number theory and Calculus-II	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
248	OE Basics of number theory	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
249	OE Mathemsticsl aptitude -IV	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
250	real analysis-II and complex anaysis	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
251	real analysis-II and complex anaysis -P	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.

252	advanced algebra and discrete mathematics	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
253	advanced algebra and discrete mathematics -P	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
254	programming in Python	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
255	programming in Python -P	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
256	linear algebra	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
257	linear algebra -P	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
258	numerica; analysis	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
259	numerica; analysis-P	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
260	internship	BSCNEPMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.

261	General Microbiology	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
262	General Microbiology Practical	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
263	Microbial technology for Human Welfare	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
264	Microbial biochemistry and physiology	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
265	Microbial biochemistry and physiology	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
266	Environmental and sanitary microbiol	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
267	General Microbiology Practical	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
268	Microbial diversity	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
269	Microbial diversity P	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
270	OE Microbial entrepreneurship	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.

271	Microbial enzymology and metabolism	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
272	Microbial enzymology and metabolism P	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
273	OE Human microbiome	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
274	OE: Plant biochemistry -2	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
275	microbial genetics	BSCNEPMICYCM	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
276	microbial genetics -P	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
277	food microbiology	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
278	food microbiology -P	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
279	microbial and biochemical techniques	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
280	microbial and biochemical techniques -P	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.

281	immunology and medical microbiology	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
282	immunology and medical microbiology -P	BSCNEPMICYCM	Research associate, teacher, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
283	industrial microbiology	BSCNEPMICYCM	Microbiology labs, Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
284	industrial microbiology-P	BSCNEPMICYCM	Microbiology labs, Forensic science technician, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
285	internship	BSCNEPMICYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
286	Biophysics & Bioinformatics Practical	BSCNEPMICYCM	Laboratory technician, Forensic science technician, DNA analyst, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
287	Mechanics and Properties of Matter	BSCNEPMICYCM	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
288	Energy sources	BSCNEPPHYCYM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
289	Climate sciences	BSCNEPPHYCYM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
290	Electricity and magnetism	BSCNEPPHYCYM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.

291	Physics-1 Practical	BSCNEPPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
292	Physics -II Practical	BSCNEPPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
293	Astronomy and astrophysics	BSCNEPPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
294	Medical physics	BSCNEPPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
295	Wave motion and optics	BSCNEPPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
296	Wave motion and optcs	BSCNEPPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
297	Wave motion and optcs P	BSCNEPPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
298	OE Optical Instruments	BSCNEPPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
299	OE Sports Science	BSCNEPPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.

300	Thermal Physics and electronics	BSCNEPPHYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
301	Thermal Physics and electronics P	BSCNEPPHYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
302	OE Nanotechnology	BSCNEPPHYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
303	OE Electrical Instruments	BSCNEPPHYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
304	classical mechanics-I and quantum mechanics-I	BSCNEPPHYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
305	classical mechanics-I and quantum mechanics-I-P	BSCNEPPHYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
306	elements of atomic, molecular and laser physics.	BSCNEPPHYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
307	elements of atomic, molecular and laser physics.-P	BSCNEPPHYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
308	employability skills or cyber security	BSCNEPPHYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
309	elements of condensed matter and nuclear physics	BSCNEPPHYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power

			Systems, Microelectronics.
310	elements of condensed matter and nuclear physics - P	BSCNEPPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
311	electronics instrumentation and sensors	BSCNEPPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
312	electronics instrumentation and sensors -P	BSCNEPPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
313	internship	BSCNEPPHY YCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
314	Fundamentals of Sericulture	BSCNEPPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
315	Science of Sericulture	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
316	Mulberry crop production Technology	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
317	OE: Fundamentals of Sericulture Practical	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
318	Mulberry Biology and cultivation	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
319	Mulberry Biology and cultivation	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
320	OE:Mulberry crop production Technology	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs

321	Sericulture biology and rearing technology	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
322	OE Silkworm rearing technology	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
323	Silkworm biology and rearing technology P	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
324	Mulberry and silkworm crop protection	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
325	OE Textile technology	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
326	Mulberry and silkworm crop protection P	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
327	mulberry cytogenetics, breeding and physiology	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
328	mulberry cytogenetics, breeding and physiology -P	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
329	silkworm genetics, breeding and physiology	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
330	silkworm genetics, breeding and physiology -P	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
331	Biochemical techniques	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
332	Biochemical techniques -P	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
333	silkworm seed technology and vanya sericulture	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
334	silkworm seed technology and vanya sericulture -P	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
335	silk technology, extension and economics	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
336	silk technology, extension and economics -P	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming,

			entrepreneurs
337	internship	BSCNEPSERYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs
338	Statistical method and its applications	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
339	Bussiniess Statistics	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
340	Probability and distrubtion-1	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
341	Descriptive Statistics Practical	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

342	Probability and distrubtion-1 Practical	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
343	Applied Statistics	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
344	Bio Statistics	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
345	Constitution of India	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
346	Probablity distributions-II	BSCNEPSTAYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
347	Probablity distributions-II P	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

348	Statistical inference-I	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
349	Statistical inference-I P	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
350	Calculus and Probablity distribution	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
351	OE Introduction to statistics with R	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
352	OE Elements of statistical data analysis	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

353	OE Population studies	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
354	matrix algebra and regression analysis	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
355	matrix algebra and regression analysis -P	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
356	analysis of variance and design of experiments	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
357	analysis of variance and design of experiments -P	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

358	statistical interference	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
359	statistical interference -P	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
360	sampling techniques and statistics for national e	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
361	sampling techniques and statistics for national e -P	BSCNEPSTAYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
362	Cytology, Genetics and Infectious Diseases	BSCNEPZOOYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

363	Cytology, Genetics and Infectious Diseases Practical	BSCNEPZOOYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
364	Economic Zoology	BSCNEPZOOYCM	Laboratory technician, Forensic science technician, DNA analyst, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
365	Parasitology	BSCNEPZOOYCM	Laboratory technician, Forensic science technician, DNA analyst, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
366	Biochemistry and Physiology	BSCNEPZOOYCM	Animal Taxonomist, Ecologist, Research scientist , Teaching, zoologist.
367	Biochemistry and Physiology	BSCNEPZOOYCM	Animal Taxonomist, Ecologist, Research scientist , Teaching, zoologist.
368	Molecular biology, Bioinstrumentation and techniques in biology	BSCNEPZOOYCM	Animal Taxonomist, Ecologist, Research scientist , Teaching, zoologist.
369	Molecular biology, Bioinstrumentation and techniques in biology Practical	BSCNEPZOOYCM	Animal Taxonomist, Ecologist, Research scientist , Teaching, zoologist.
370	Molecular biology, bioinstrumentation and techniques in biology	BSCNEPZOOYCM	Laboratory technician, Forensic science technician, DNA analyst, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
371	Molecular biology, bioinstrumentation and techniques in biology P	BSCNEPZOOYCM	Laboratory technician, Forensic science technician, DNA analyst, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
372	Genetechnology immunology and computational biology	BSCNEPZOOYCM	Laboratory technician, Forensic science technician, DNA analyst, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
373	Genetechnology immunology and computational biology P	BSCNEPZOOYCM	Laboratory technician, Forensic science technician, DNA analyst, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.

374	OE 3 Endocrinology	BSCNEPZOOYCM	Laboratory technician, Forensic science technician, DNA analyst, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
375	OE 4 Animal behavior	BSCNEPZOOYCM	Laboratory technician, Forensic science technician, DNA analyst, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
376	non- chordates and economic zoology	BSCNEPZOOYCM	Animal Taxonomist, Ecologist, Research scientist , Teaching, zoologist.
377	non- chordates and economic zoology -P	BSCNEPZOOYCM	Animal Taxonomist, Ecologist, Research scientist , Teaching, zoologist.
378	chordate and comparative anatomy	BSCNEPZOOYCM	Laboratory technician, Forensic science technician, DNA analyst, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
379	chordate and comparative anatomy -P	BSCNEPZOOYCM	Animal Taxonomist, Ecologist, Research scientist , Teaching, zoologist.
380	evolutionary and developmental biology	BSCNEPZOOYCM	Animal Taxonomist, Ecologist, Research scientist , Teaching, zoologist.
381	evolutionary and developmental biology -P	BSCNEPZOOYCM	Animal Taxonomist, Ecologist, Research scientist , Teaching, zoologist.
382	environmental biology, wild life management and conservation	BSCNEPZOOYCM	Laboratory technician, Forensic science technician, DNA analyst, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
383	environmental biology, wild life management and conservation -P	BSCNEPZOOYCM	Laboratory technician, Forensic science technician, DNA analyst, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
384	English (AECCL2-1)	BSCYCMNEPYCM	Laboratory technician, Forensic science technician, DNA analyst, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
385	English (AECCL2-1)	BSCYCMNEPYCM	Laboratory technician, Forensic science technician, DNA analyst, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
386	English (AECCL2-3)	BSCYCMNEPYCM	Animal Taxonomist, Ecologist, Research scientist , Teaching, zoologist.

387	English (AECC L2 -4)	BSCYCMNEPYCM	Laboratory technician, Forensic science technician, DNA analyst, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
388	English - III	BSCYCMCBCSYCM	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
389	English - IV	BSCYCMCBCSYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
390	Introduction to Phonetics-I	BSCYCMCBCSYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
391	Introduction to Phonetics-II	BSCYCMCBCSYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
392	English	NEPAECCENGYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
393	English	NEPAECCENGYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
394	Kannada lanagauge lesson B.Sc	NEPAECCKANYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
395	Kannada lanagauge lesson B.C.A	NEPAECCKANYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
396	Kannada l lesson and maangement B.B.A	NEPAECCKANYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
397	Hindi	NEPAECCHINYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
398	Hindi functional Hindi	NEPAECCHINYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical

			writer, Librarian, Social media manager.
399	Short stories and functional Hindi	NEPAECCHINYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
400	Hindi Collection of short stories and media writing	NEPAECCHINYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
401	Sanskrit Drama and Vyakarana -B.SC , B.B.A, BCA	NEPAECCHINYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
402	Sanskrit prose, grammar and translation	NEPAECCSANYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
403	Sanskrit champu kavya and grammar	NEPAECCSANYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
404	Sanskrit drama and dramaturgy	NEPAECCSANYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
405	Sanskrit III	NEPAECCSANYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian
406	Sanskrit IV	CBCSSANYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian
407	Tamil Language - Semester III	CBCSSANYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian
408	Tamil Language - Semester IV	BSCCBCSTAMYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian
409	Persian Language - Semester III	BSCCBCSTAMYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian
410	Persian Language - Semester IV	BSCCBCSPERYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian
411	French Language - Semester III	BSCCBCSPERYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian

412	French Language - Semester IV	BSCCBCSFREYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian
413	Arabic Language - Semester III	BSCCBCSFREYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian
414	Arabic Language - Semester IV	BSCCBCSARAYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian
415	Fundamentals of Computers	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
416	Information Technology Practical	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
417	Programming in C	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
418	C Programming Practical	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
419	Accountancy	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
420	Data structure and Using C	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
421	Java	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.

422	Data structure	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
423	Discrete Mathematical Structures	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
424	Object oriented concepts using Java	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
425	Computer Fundamentals and Programming in C	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
426	C Programming Practical	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
427	Database management systems	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
428	DSMS P	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
429	C# and .Net technology	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
430	C# and .Net technology P	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.

431	Computer networks	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
432	Python programming	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
433	Python programming P	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
434	Multimedia animation	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
435	Multimedia animation P	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
436	Operating system concepts	BSCNEPCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
437	Computer Concepts and C programming	BCACBCSCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
438	Fundamentals of Information Technology	BCACBCSCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
439	C programming	BCACBCSCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.

440	FIT LAB practical	BCACBCSCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
441	Discrete transformation	BCACBCSCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
442	Environmental studies	BCACBCSCOMYCM	AI and Machine Learning, Cyber Security, Data Analysis, Cloud Computing, Blockchain Technology, Mobile App Development, Information Security, IT Operations and Governance.
443	Kannada	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
444	English	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
445	Data structures and file Processing	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
446	Data Structures Lab	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
447	System software and operating system	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
448	Digital electronics And C O	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
449	Digital Electronics LAB practical	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
450	Indian Constitution	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.

451	Kannada	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
452	English	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
453	object oriented programming	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
454	Java Lab	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
455	Operation Research	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
456	Accounting	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
457	Accountancy	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
458	Kannada	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
459	English	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
460	Data base Management system	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
461	DBMS Lab	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
462	Numerical And statistical Ananlysis	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.

463	Data Communication	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
464	Datacommunication	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
465	NT LAB practical	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
466	Web Designing LAB Practical	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
467	Data Mining and Data Ware Housing LAB Practical	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
468	Project LAB practical	BCACBCSCOMYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
469	Management Principles and Practice	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
470	Fundamentals of Business Accounting	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
471	Marketing Management	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer,

			Accounting manager, Finance manager, Data Analyst.
472	Business Organization	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
473	office organisation and Management	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
474	Finanicial Accounting and reporting	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
475	Human Resources and management	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

476	Bussiness Environment or Mathematics	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
477	People management	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
478	Retail Management	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
479	Cost accounting	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
480	Organizational behavior	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

481	Statistics for business decisions	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
482	Artificial intelligence	BBANEPMANYCM	Artificial intelligence, Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
483	OE Social media marketing/ rural marketing	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
484	Management accounting	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
485	Business analytics	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

486	Financial management	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
487	OE Business leadership skills	BBANEPMANYCM	
488	Personal wealth management	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
489	Production and operation management	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
490	income tax-I	BBANEPMANYCM	banker, chartered accountant, accountant
491	banking law and practice	BBANEPMANYCM	bank jobs, shares agents
492	elective -I	BBANEPMANYCM	marchantile agent , brokers, agents, promoters
493	elective -2	BBANEPMANYCM	marchantile agent , brokers, agents, promoters
494	A -information technology for business	BBANEPMANYCM	marchantile agent , brokers, agents, promoters
495	B- digital marketing	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

496	cyber security/ employability	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
497	Business law	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
498	income tax-II	BBANEPMANYCM	
499	international business	BBANEPMANYCM	
500	elective -I	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
501	elective -2	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
502	A- Goods and service tax	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

503	B- ERP Application	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
504	Internship	BBANEPMANYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
505	Human Rights	NEPOEYCM	Business Analyst , Economist · Data Analyst · Associate - Analytics & Business ,Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
506	Human Resources and management	NEPOEYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
507	Public Persobnall Adminstration	NEPOEYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
508	Indian Polity: issues and Concerns	NEPOEYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

509	International Relations	NEPOEYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
510	Mangement of NGO	NEPOEYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
511	State Adminstartion	NEPOEYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
512	Self Defence	NEPOEYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
513	Sports event Mangement	NEPOEYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
514	Yoga and fitness	NEPOEYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
515	Adventurous Sports	NEPOEYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
516	Physical fitness for careers	NEPOEYCM	Physical Education School Teacher, Physical Education College/ University Trainer, Aerobics, Yoga teacher, Nutritionist, Naturopathy, Sports Journalist, Sports Organizer/ Presenter.
517	Sports and recreation	NEPOEYCM	Physical Education School Teacher, Physical Education College/ University Trainer, Aerobics, Yoga teacher, Nutritionist, Naturopathy, Sports Journalist, Sports Organizer/ Presenter.
518	Environmental studies	NEPAECCENSYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
519	Environmental studies	NEPAECCENSYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
520	DIGITAL Fluency	NEPSECCOMYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
521	DIGITAL Fluency	NEPSECCOMYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.

522	Phyiscal Education and Yoga	NEPSECPHYYCM	Physical Education School Teacher, Physical Education College/ University Trainer, Aerobics, Yoga teacher, Nutritionist, Naturopathy, Sports Journalist, Sports Organizer/ Presenter.
523	Health and Wellness	NEPSECPHYYCM	Physical Education School Teacher, Physical Education College/ University Trainer, Aerobics, Yoga teacher, Nutritionist, Naturopathy, Sports Journalist, Sports Organizer/ Presenter.
524	Phyiscal Education and Sports	NEPSECPHYYCM	Physical Education School Teacher, Physical Education College/ University Trainer, Aerobics, Yoga teacher, Nutritionist, Naturopathy, Sports Journalist, Sports Organizer/ Presenter.
525	kannada	BSCCBCSKANYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
526	malayalam	BSCCBCSMALYCM	Physical Education School Teacher, Physical Education College/ University Trainer, Aerobics, Yoga teacher, Nutritionist, Naturopathy, Sports Journalist, Sports Organizer/ Presenter.
527	Tamil	BSCCBCSTAMYCM	Physical Education School Teacher, Physical Education College/ University Trainer, Aerobics, Yoga teacher, Nutritionist, Naturopathy, Sports Journalist, Sports Organizer/ Presenter.
528	India and indian constitution	BSCCBCSCNSYCM	Physical Education School Teacher, Physical Education College/ University Trainer, Aerobics, Yoga teacher, Nutritionist, Naturopathy, Sports Journalist, Sports Organizer/ Presenter.
529	NSS	BSCCBCSNSSYCM	Social work, Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
530			
531			
532	Virology, Bacteriology, Mycology and Plant Pathology	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist, Teaching.
533	Phycology, Bryophytes, Pteridophytes and Gymnosperms	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist, Teaching.

534	Systematics of Angiosperms	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
535	SC:Algal Biology and Biotechnology	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
536	SC:Phytopathology	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
537	SC: Fungal Biology & Biotechnology	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
538	SC: Lichenology & Mycorrhizal Technology	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
539	Pyhytopathology	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
540	Cell Biology and Genetics	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
541	Plant Breeding and Evolutionary Biology	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
542	SC:Plant Anatomy and Histochemistry	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
543	SC:Economic Botany	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
544	SC: Ethno-Botany & Intellectual Property Rights (IPR)	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
545	OE: Medicinal Plants	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
546	Biochemistry and Plant Physiology	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
547	Molecular Biology	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
548	Plant Biotechnology	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
549	SC:Plant Propagation and Plant Breeding	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research

			scientist , Teaching.
550	SC: Molecular Genetics of Plants	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
551	SC: Molecular Plant Pathology	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
552	SC: Phyto-chemistry & Herbal Techonology	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
553	OE: Plant Propogation Techniques	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
554	Plant Propogation and plant breeding	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
555	OE:Plant diversity and Human Wefare	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
556	Virology, Becteriology,Mycology P Pathology Practical	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
557	Phycology, Bryophytes,Pteridophytes Gsperms Practical	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
558	Systematics of Angiosperms Practical	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
559	Reproductive Biology Angiosperms & Plant M Practical	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
560	Cell Biology and Genetics Practical	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
561	Plant Breeding and Evolutionary Biology Practical	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
562	Biochemistry and Plant Physiology Practical	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
563	Molecular Biology Practical	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
564	Plant Biotechnology Practical	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.

565	Ecology, Conservation Biology & Phytogeography	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist, Teaching.
566	Project Work	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist, Teaching.
567	Seed technology	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist, Teaching.
568	Seed Pathology	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist, Teaching.
569	Bio-Analytical Techniques	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist, Teaching.
570	Ecology, Conservation Biology & Phyto Practical	MSCCBCSBOTYCM	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist, Teaching.
571	Concepts & Models of Inorganic Chemistry	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
572	Stereochemistry & Reaction Mechanism	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
573	Basic Physical Chemistry	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
574	Analytical Data Assessment and Titrimetric Analysis	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
575	SC-Kinetic and Optical Method of Analysis	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
576	SC- Chemistry of Selected Elements	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
577	SC- Chemistry of Natural Products-I	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
578	SC- Biophysical Chemistry	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
579	Coordination Chemistry	MSCCBCSCHEYCM	Manufacturing industries, Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.

580	Synthetic Organic Chemistry	MSCCBCSCHEYCM	teaching, Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions. Industrial work
581	Principles of Physical Chemistry	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
582	Molecular Symmetry and Spectroscopy	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
583	SC- Analytical Separations	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
584	SC- Chemistry of Selected Elements	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
585	SC- Chemistry of Natural Products-I	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
586	SC- Biophysical Chemistry	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
587	Advanced Inorganic Chemistry	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
588	Organometallic and Photochemistry	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
589	Advanced Physical Chemistry	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
590	Molecular Spectroscopy	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
591	SC- Electrochemical Methods of Chemical Analysis	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
592	SC- Frontiers in Inorganic Chemistry	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
593	SC- Chemistry of Natural Products-II	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.
594	SC- Materials Chemistry	MSCCBCSCHEYCM	Chemical Engineer, Forensic Scientist, Research Scientist, Government healthcare institutions.

595	Inorganic Chemistry II	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
596	Organic Chemistry II	MSCCBCSCHEYCM	Manufacturing industries, Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
597	Bioinorganic Chemistry	MSCCBCSCHEYCM	teaching,Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.Industrail work
598	Heterocyclic & Bioorganic Chemistry	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
599	Nuclear, Radiation and Photochemistry	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
600	Principles, Chromotographic S & T Methods of Analysis	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
601	SC- Automated and Methods of Chemical Analysis	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
602	SC- Bioinorganic Photochemistry	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
603	SC- Medicinal Chemistry	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
604	SC- Quantum Chemistry and Biosensors	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
605	OE: Environmental Science	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
606	Analytical Chemistry Practicals - I	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
607	Inorganic Chemistry Practicals - I	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
608	Organic Chemistry Practicals - I	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
609	Physical Chemistry Practicals - I	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.

610	Concepts and Models of Inorganic Chemistry Practical	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
611	Stereochemistry and Reaction Mechanism Practicals	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
612	Basic Physical Chemistry Practicals	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
613	Analytical Data Assessment and Titri Analysis Practicals	MSCCBCSCHEYCM	Manufacturing industries, Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
614	Coordination Chemistry Practicals	MSCCBCSCHEYCM	teaching,Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.Industrail work
615	Synthetic Organic Chemistry Practicals	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
616	Principles of Physical Chemistry Practicals	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
617	Molecular Symmetry and Spectroscopy Practicals	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
618	Analytical Chemistry Practical - II	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
619	Inorganic Chemistry Practical - II	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
620	Organic Chemistry Practical - II	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
621	Physical Chemistry Practical - II	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
622	Advanced Inorganic Chemistry Practicals	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
623	Organo Metalic and Photo Chemistry Practicals	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
624	Advanced Physical Chemistry Practicals	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.

625	Molecular Spectroscopy Practicals	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
626	Inorganic Chemistry II Practicals	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
627	Organic Chemistry II Practicals	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
628	General Chemistry	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
629	Physical Practicals -III	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
630	Disertation	MSCCBCSCHEYCM	Chemical Engineer,Forensic Scientist,Research Scientist, Government healthcare institutions.
631	Paper –I – (Hard Core-I) English Li From Cha To Milton	MACBCSENGYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
632	Paper –II – (Hard Core-II) Elizabethan Age	MACBCSENGYCM	English profesor, teacher Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
633	Paper –III – (Hard Core-III) 17 th & 18 th C English Liter	MACBCSENGYCM	Professor, writer, teacher,Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
634	Paper-IV (Hard Core – IV) - 19 th Century English Liter	MACBCSENGYCM	English profesor, teacher Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
635	Paper V- Soft Core , Introduction to Phonetics	MACBCSENGYCM	Professor, writer, teacher,Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
636	Soft Core II Cross-Cultural Women Writers	MACBCSENGYCM	English profesor, teacher Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
637	Paper I –The Modern Age - I	MACBCSENGYCM	Professor, writer, teacher,Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
638	Paper II - Literary Criticism	MACBCSENGYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager

639	Paper III– Indian Writing In English - I	MACBCSENGYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
640	Paper- IV (Soft Core) Feminism	MACBCSENGYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
641	Soft Core II :Carrebean fiction and Poetry	MACBCSENGYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
642	Paper- V (Open Elective) Communication Skills	MACBCSENGYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
643	Paper- I – (Hard Core-I) The Modern Age-II	MACBCSENGYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
644	Paper- II– (Hard Core-Iv) Indian Writing In English-Ii	MACBCSENGYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
645	Paper- III – (Hard Core-Iii) New Literatures In English	MACBCSENGYCM	English profesor, teacher Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
646	Soft Core Paper 1Modern Indian Poetry In English	MACBCSENGYCM	Professor, writer, teacher,Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
647	Soft Core Paper II Nobel Laureates	MACBCSENGYCM	English profesor, teacher Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
648	Paper- I (Hard Core-I) Literary Criticism-Ii	MACBCSENGYCM	Professor, writer, teacher,Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
649	Paper- II(Hard Core-Ii) American Literature	MACBCSENGYCM	English profesor, teacher Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
650	Paper- III European Classics (Compulsory Soft C Paper)	MACBCSENGYCM	Professor, writer, teacher,Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
651	Paper IV(S C I)Contemporary S Asian Immigrant Novel	MACBCSENGYCM	English profesor, teacher Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
652	Paper IVSoft Core II Subaltern Women’sAutobiographies	MACBCSENGYCM	Professor, writer, teacher,Journalist, content creator, writer, publisher, editor, technical writer, Social

			media manager
653	Paper VvSoft Core III Partition Literature	MACBCSENGYCM	English profesor, teacher Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
654	Food Science and Food Processing- I	MSCCBCSFSNYCM	SCIENTIST, Ph.D, Research associate, teaching
655	Nutritional Biochemistry	MSCCBCSFSNYCM	SCIENTIST, Ph.D, Research associate, teaching
656	Body composition and macronutrients	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
657	Community nutrition	MSCCBCSFSNYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
658	Food fortification	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
659	Food Hygiene and Sanitation	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
660	Food Microbiology	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
661	Assessment of Nutritional status	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
662	Basics of Food Sciences	MSCCBCSFSNYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
663	Basics of nutritional sciences	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
664	SC:Functional properties of foods	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
665	Food Science and Food Processing- II	MSCCBCSFSNYCM	Research, medical sales, healthcare, pharmaceuticals, teaching

666	Micronutrients-I -Minerals	MSCCBCSFSNYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
667	Food laws and food safety	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
668	SC:Food packaging technology	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
669	Micronutrients-II -Vitamins	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
670	Research methods and statistical analysis	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
671	SC:Enzymes in food processing (self study)	MSCCBCSFSNYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
672	OE: Nutrition for Health	MSCCBCSFSNYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
673	Product development and sensory evaluation	MSCCBCSFSNYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
674	Food Preservation	MSCCBCSFSNYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
675	Principles of clinical nutrition	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
676	SC: Biostatistics & Computer Applications	MSCCBCSFSNYCM	SCIENTIST, Ph.D, Research associate, teaching
677	SC:Entrepreneurship & Marketing	MSCCBCSFSNYCM	SCIENTIST, Ph.D, Research associate, teaching
678	SC:Advances in nutrition research	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
679	SC:Quality control in food industries	MSCCBCSFSNYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
680	SC:Food Additives	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.

681	OE: Culinary Dcience-Principles & Techniques	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
682	Term Paper(HC)	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
683	Computational Statistics and Application(OE)	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
684	Food Science and Food Processing- I Practical	MSCCBCSFSNYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
685	Nutritional Biochemistry Practical	MSCCBCSFSNYCM	SCIENTIST, Ph.D, Research associate, teaching
686	Body composition and macronutrients Practical	MSCCBCSFSNYCM	SCIENTIST, Ph.D, Research associate, teaching
687	Community Nutrition Practical	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
688	Food Science and Food Processing- II Practical	MSCCBCSFSNYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
689	Micronutrients-I -Minerals Practical	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
690	Food laws and food safety Practical	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
691	Micronutrients-II -Vitamins Practical	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
692	Research methods and statistical analysis Practical	MSCCBCSFSNYCM	Food processing industries,hotels,Hospitals, Restaurants, Dairy product industries, Food research and development laboratories.
693	Product Development and Sensory Evaluation Practical	MSCCBCSFSNYCM	Research, medical sales, healthcare, pharmaceuticals, teaching
694	Food Preservation Practical	MSCCBCSFSNYCM	dietician, food analysisit, Teaching
695	Principles of Clinical Nutrition Practical	MSCCBCSFSNYCM	dietician, food analysisit, Teaching

696	Algebra – I	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
697	Real Analysis – I	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
698	Real Analysis – II	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
699	Complex Analysis – I	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
700	SC:Linear Algebra	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
701	SC: Combinatorics & Graph Theory	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
702	Algebra II	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
703	Real Analysis III	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
704	Complex Analysis II	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.

705	SC: Ordinary and Partial Differential Equations	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
706	SC:Graph Theory	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
707	SC: Representaion Theory of Finite Groups	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
708	Elements of Functional Analysis	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
709	Topology I	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
710	SC:Commutative Algebra	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
711	SC:Theory of Numbers	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
712	SC:Algebric Number Theory	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
713	SC:Galosis Theory	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.

714	SC:Geometric Function Theory	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
715	SC:Probability Distribution & Inferential Statistics	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
716	OE: Differential Equations & its applications	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
717	Measure and Integration	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
718	Topology II	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
719	SC:Advanced Graph Theory	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
720	SC:Theory of Partitions	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
721	SC: Differential Geometry	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
722	SC: Advanced Functional Analysis	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.

723	SC: Hypergeometric Functions & q-series	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
724	SC: Mathematical Finance	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
725	OE: Algorithms & Computations	MSCCBCSMATYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
726	Management Concepts & Theories	MBANONCBCSMANYCM	Mathematician, Computer engineer, Statistician, Architect, Actuary, Economist, Mathematics Teacher, Market Research Analyst, Financial Planner, Insurance Underwriter.
727	Organizational Behavior	MBANONCBCSMANYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
728	Business Environment	MBANONCBCSMANYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
729	Managerial Communication	MBANONCBCSMANYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
730	Managerial Accounting	MBANONCBCSMANYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
731	Managerial Economics	MBANONCBCSMANYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
732	Statistics for Management	MBANONCBCSMANYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
733	Marketing Management	MBANONCBCSMANYCM	Marketing manager, Human resources manager, Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

734	Human Resource Management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
735	Corporate Finance	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
736	Quantitative Methods	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
737	Business Research Methods	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
738	Operations Management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
739	Management Information Systems	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
740	Project Management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

741	Strategic Management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
742	Elective - FM I-Investment Management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
743	Elective – FM II-Financial Services	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
744	Elective – FM III –Portfolio Management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
745	Elective –HRM I-Human Resource Development	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
746	Elective –HRM II-Organizational Change and Dment	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
747	Elective –HRM III- Training and Development	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

748	Elective MM I-Consumer Behavior and Marketing Res	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
749	Elective MM-II: Sales and Logistics Management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
750	Elective MM-III: Integrated Marketing Communication	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
751	Project Work Dairy	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
752	Summer Internship Report	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
753	Entrepreneurship	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
754	Elective FM-IV: Financial Strategies	MBANONCBCSMANYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.

755	Elective FM-V: Derivatives	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
756	Elective FM-VI: International Financial Management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
757	Elective FM-VII: Corporate Taxation	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
758	Elective –HRM IV: International Human Resource Ma	MBANONCBCSMANYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
759	Elective –HRM V: Labor Legislation	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
760	Elective –HRM VI: Industrial Relation and Collective Bg	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
761	Elective –HRM VII: P G and Interpersonal Effectiveness	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

762	Elective MM –IV-Product and Brand Management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
763	Elective MM V- Business Marketing Management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
764	Elective MM VI- Services Marketing	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
765	Elective MM VII- International Marketing	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
766	Project Management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
767	Entrepreneurship and bussiness	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
768	Elective -I	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

769	Elective -II	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
770	Elective -III	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
771	Business Famialiarization report	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
772	Consumer Behaviour and marketing reasearch	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
773	Sales and Logistics management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
774	Advertiizing and sales promotion	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
775	Advance corporte Finiance	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

776	Financial market and Institutions	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
777	Portfolio management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
778	Human Resource development	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
779	Organisational Change and development	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
780	Training and development	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
781	International economics	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
782	India and WTO	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

783	Export and Import Procedures and documentation	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
784	System Analysis and Design	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
785	Software engineering and management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
786	Datebase mangement and techniques	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
787	Supply chain management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
788	Operation strategy	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
789	Service and Retail marketing	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

790	Startegic management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
791	Elective -I	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
792	Elective -II	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
793	Elective -III	MBANONCBCSMANYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
794	Elective -IV	MBANONCBCSMANYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
795	Project work	MBANONCBCSMANYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
796	Product and Brand mangement G I	MBANONCBCSMANYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
797	Business marketing mangement GI	MBANONCBCSMANYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
798	Service marketing GI	MBANONCBCSMANYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
799	International Marketing GI	MBANONCBCSMANYCM	Journalist, content creator, writer, publisher, editor, technical writer, Social media manager
800	Startegic Financial management GII	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance

			manager, Data Analyst.
801	Derivatives- GII	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
802	International financial Management	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
803	Corporate taxation -GII	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
804	Strategic Human Resource management	MBANONCBCSMANYCM	Physical Education School Teacher, Physical Education College/ University Trainer, Aerobics, Yoga teacher, Nutritionist, Naturopathy, Sports Journalist, Sports Organizer/ Presenter.
805	Labour Legislation -GIII	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
806	Industrial relations and collective Bargaining -GIII	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.

807	Knowledge management-GIII	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
808	India's foreign trade-GIV	MBANONCBCSMANYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
809	International Trade policy -GIV	MBANONCBCSMANYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
810	International financial mangement -GIV	MBANONCBCSMANYCM	Physical Education School Teacher, Physical Education College/ University Trainer, Aerobics, Yoga teacher, Nutritionist, Naturopathy, Sports Journalist, Sports Organizer/ Presenter.
811	International marketing _GIV	MBANONCBCSMANYCM	Physical Education School Teacher, Physical Education College/ University Trainer, Aerobics, Yoga teacher, Nutritionist, Naturopathy, Sports Journalist, Sports Organizer/ Presenter.
812	Enterprise R p and B Processes and reengineering -GV	MBANONCBCSMANYCM	Physical Education School Teacher, Physical Education College/ University Trainer, Aerobics, Yoga teacher, Nutritionist, Naturopathy, Sports Journalist, Sports Organizer/ Presenter.
813	electronic commerce -GV	MBANONCBCSMANYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
814	IPR and Cyber laws -GV	MBANONCBCSMANYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
815	business startgies -V	MBANONCBCSMANYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.
816	Sales and logistics Management GVI	MBANONCBCSMANYCM	Copywriter, Journalist, content creator, writer, publisher, editor, technical writer, Librarian, Social media manager.

817	Retail mangement -GVI	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
818	Promotion and relationship Mt -GV	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
819	operations research	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
820	operations research	MBANONCBCSMANYCM	Marketing manager, Human resources manager , Sales manager, Social media manager, Sales manager, Operations manager. Business analyst, Chief executive officer, Accounting manager, Finance manager, Data Analyst.
821	General Botany	MBDSCNEP-2021	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
822	General Zoology	MBDSCNEP-2021	zoologist, Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
823	Cell biology and Plant physiology	MBDSCNEP-2021	cell biologist, Ph.D., Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
824	Inorganic and physical chemistry	MBDSCNEP-2021	chemist, Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
825	General Botany Practical	MBDSCNEP-2021	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
826	General Zoology Practical	MBDSCNEP-2021	Botanist, Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.

827	Cell biology and Plant Physiology Practical	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
828	Inorganic and Physical chemistry Practical	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
829	Microbiology	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
830	Microbiology Practical	MBDSCNEP-2021	microbiologist , Plant Taxonomist, Ecologist, Agronomist, Horticulturist, Research scientist , Teaching.
831	biochemistry	MBDSCNEP-2021	biochemist
832	biochemistry practical	MBDSCNEP-2021	biochemist
833	reproductive and developmental biology	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
834	reproductive and developmental biology -P	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
835	plant physiology II and animal physiology	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
836	plant physiology II and animal physiology -P	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
837	metabolism I	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
838	metabolism I -P	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
839	enzymology	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
840	enzymology -P	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.

841	principles of genetics / forensic biology	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
842	biophysics / nanoscience	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
843	biochemical techniques	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
844	bioinformatica	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
845	metabolism II	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
846	metabolism II -P	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
847	molecular genetics	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
848	molecular genetics -P	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
849	genetic engineering / clinical biochemistry	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
850	molecular cell biology/ molecular endocrinology	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
851	cell and tissue culture technology	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
852	internship	MBDSCNEP-2021	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.

853	Classical Mechanics	MSCCBCSPHYCM	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
854	Linear Vectore Space and Special Functions	MSCCBCSPHYCM	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
855	Group theory and Fourier Transforms	MSCCBCSPHYCM	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
856	Classical and relativistic electrodynamics, optics	MSCCBCSPHYCM	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
857	Computer Lab CI - A (HC)	MSCCBCSPHYCM	Forensic science technician, DNA analyst, Laboratory technician, Pharmacologist, Physician assistant, Biologist, Biomedical engineer.
858	SC: Electronics Lab	MSCCBCSPHYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
859	Continuum Mechanic and Relativity	MSCCBCSPHYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
860	Thermodynamics Classical and Quantum Statistical Mechanics	MSCCBCSPHYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
861	Quantum Mechanics I	MSCCBCSPHYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
862	Spectroscopy and Fourier Optics	MSCCBCSPHYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.

863	Computer Lab(HC)	MSCCBCSPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
864	OE: Environmental Science	MSCCBCSPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
865	Quantum Mechanics II	MSCCBCSPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
866	Condensed Matter Physics	MSCCBCSPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
867	Solid State Physics I	MSCCBCSPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
868	SC: Accelerator Physics	MSCCBCSPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
869	SC: Numerical Methods	MSCCBCSPHY YCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
870	Condensed Matter Physics Lab	MSCCBCSPHY YCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
871	Theoretical Physics I	MSCCBCSPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.

872	Nuclear and Particle Physics	MSCCBCSPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
873	Accelerator Physics	MSCCBCSPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
874	Solid State Physics 2	MSCCBCSPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
875	Solid State Physics 3	MSCCBCSPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
876	Electronics	MSCCBCSPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
877	Computer Lab CL-A Practical	MSCCBCSPHY YCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
878	Electronics Lab Practical	MSCCBCSPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
879	Computer Lab CL-B Practical	MSCCBCSPHY YCM	
880	Optics Lab Practical	MSCCBCSPHY YCM	
881	Condensed Matter Physics Practical	MSCCBCSPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
882	Solid State Physics I Practical	MSCCBCSPHY YCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.

883	Nuclear Physics I Practical	MSCCBCSPHYYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
884	Theoretical Physics I Practical	MSCCBCSPHYYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
885	Nuclear Physics Lab Practical	MSCCBCSPHYYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
886	Solid State Physics 3 Practical	MSCCBCSPHYYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
887	Electronics Practical	MSCCBCSPHYYCM	Communications and Signal Processing, Computer Engineering, Controls. Electrophysics. Power Systems, Microelectronics.
888	Accelerator Physics Practical	MSCCBCSPHYYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
889	Nuclear Physics I Practical	MSCCBCSPHYYCM	Research scientist, Teacher, Lecturer/academic, Sound engineer, Astronomer, Clinical scientist, medical physics, Lecturer/academic, Nanotechnologist, Radiation protectionist.
890	Solid and hazardous waste management (Open Elective)	MSCCBCSENVYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
891	Water and waste water treatment technologies (open Elective)	MSCCBCSENVYCM	Environmental scientist, Geologist, teacher, Marine biologist, Meteorologist, Research scientist.
892	Sericulture technology	MSCCBCSSERIVYCM	Sericulture specialist, silk industry, Research associate, teaching, silk farming, entrepreneurs

YUVARAJA COLLEGE, UNIVERSITY OF MYSORE

**Regulations Governing the Choice Based Credit System Semester Scheme with
Multiple Entry and Exit Options in the Undergraduate and Post-Graduate Degree
Programmes in the Faculties of Arts, Science and Commerce
(Framed under Section 44 (1) (c) of the KSU Act 2000)**

Preamble:

Education plays a significant role in building a nation. There are quite a large number of educational institutions, engaged in imparting education in our country. However, our present education system is churning out youth who have to compete locally, regionally, nationally as well as globally. The 21st Century has opened up many new challenges in the field of Higher Education. The present alarming situation necessitates transformation and/or redesigning of the system, not only by introducing innovations but developing a “learner- centric” approach. But the majority of our higher education institutions have been following the system which obstructs the flexibility for the students to study the subjects/courses of their choice and their mobility to different institutions. Thus, there is a need to allow flexibility in the education system, so that students depending upon their interests can choose inter-disciplinary, intra-disciplinary and skill-based courses. It should be holistic to train the student into a perfect human being and a useful member of society.

The aim of higher education is to develop good, well rounded and creative individuals. It has to enable an individual to study one or more specialized areas of interest at a deeper level, while at the same time building character, ethical and constitutional values, intellectual curiosity, spirit of service and capabilities across disciplines including sciences, social sciences, arts, humanities as well as professional, technical and vocational crafts. At the society level higher education must enable development of an enlightened, socially conscious, knowledgeable and skilled nation that can uplift its people and construct and implement solutions to its own problems. It is also to bridge the increasing gap between an undergraduate degree and employability.

The New Education Policy (2019) initiated and developed by the Ministry of Human Resource Development (HRD), Govt. of India, has been approved by the Central cabinet on 29th July 2020. The National Education Policy (NEP) has brought several reforms in Indian education which includes broad based multidisciplinary Undergraduate Education with 21st Century skills while developing specialized knowledge with disciplinary rigor. It is to bring equity, efficiency and academic excellence in National Higher Education System. The important ones include innovation and improvement in course-curricula, introduction of paradigm shift in learning and teaching pedagogy, evaluation and education system.

The role of Universities and colleges in the 21st Century extends far beyond traditional knowledge creation and dissemination to encompass new expectations for innovations that will have broader, social and economic benefits. To cater to the needs of students with diverse talents, aspirations and professional requirements, it is necessary to make qualitative changes in its undergraduate and postgraduate programs. In this backdrop, the National Education Policy has recommended a Multidisciplinary Undergraduate Program with multiple exit and entry options with certificate/Diploma/degrees at each of the exits.

A nationwide ecosystem of vibrant multi-disciplinary graded higher educational institutions (Universities and Colleges) are to be developed. In this context, a liberal approach has to be the basis of undergraduate education in all fields and disciplines at the undergraduate level, including professional education. Undergraduate curriculum needs to be focussed on creativity and innovation, critical thinking and higher order thinking capacities, problem solving abilities, team work, communication skills, more in-depth learning and mastery of curricula across fields.

The University Grants Commission has asked all the universities in the country to implement the multidisciplinary and holistic education across disciplines for a multidisciplinary world, in all the Universities and Affiliated Colleges. The Karnataka State Higher Education Council has also communicated general guidelines in this regard. Further, the Karnataka State Higher Education Council has proposed a model curriculum framework and an implementation plan for the State of Karnataka. It is to suggest and facilitate the implementation of schemes and programs, which improve not only the level of academic excellence but also improve the academic and research environment in the state. The proposed curriculum framework endeavours to empower the students and help them in their pursuit for achieving overall excellence.

The proposed Four-year Multidisciplinary Undergraduate program is a fundamental transformation of the current undergraduate education which replaces the conventional undergraduate programs of universities in the State. Outcome Based Education (OBE) practices are to be used to design the curriculum. It is proposed to develop Graduate Attributes at appropriate level which will act as common denominator for curriculum across universities. Curriculum shall focus on critical thinking and problem solving. Conscious efforts to develop cognitive and non-cognitive problem-solving skills among the learners shall be part of the curriculum. Use of Bloom's Taxonomy in designing curriculum to move from lower order thinking skills to higher order thinking skills is a desired option. The programs designed shall empower graduates as expert problem solvers using their disciplinary knowledge and collaborating in multi-disciplinary teams.

The Yuvaraja College, an autonomous constituent College of University of Mysore thought it fit to implement the multidisciplinary and holistic education in all the undergraduate programs and the consequential post-graduate programs, with multiple entry and exit options with multiple certificate/diploma/degrees in the Faculties of Science and Management to replace the present undergraduate degree programs effective from the academic year 2021-22. Hence these Regulations.

Students will have the option to exit after one year with a **Certificate**, 2-years with award of the **Diploma** and after 3-years with the award of the **Bachelor Degree**. Successful completion of the four-year program will lead to award of the **Bachelor Degree with Honors** in particular subjects. Continuation of the undergraduate program for the fourth year in colleges is optional, in subjects in which they are not offering postgraduate programs. But it is a preferred option. The graduates of these colleges can seek admission to the fourth year program in the respective postgraduate departments in the university or in the colleges wherever it is offered, as the present post-graduate programs

in subjects will be restructured into one-year Master's degree for honors degree holders and two years Master degree for the Basic degree holders in the subjects.

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 Faculties of Arts, Science and Commerce".
- (b) These regulations shall come into force from the Academic Year 2021-22.

2. SALIENT FEATURES OF THE FOUR YEARS MULTIDISCIPLINARY UNDERGRADUATE PROGRAMMES 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 years 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 master's/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 Degree programmes with exit options at the completion of third and fourth years, with the Undergraduate Degree and Undergraduate Degree with Honours 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 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.

2.1. THE SALIENT FEATURES OF THE CREDIT BASED SEMESTER SCHEME:

On this basis, generally, a three-year six-semester undergraduate program will have around 140 credits, and a four-year eight-semester honors degree program will have around 180 credits and a five-year ten-semester master's degree programme will have 220 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.

DEFINITIONS OF KEY WORDS:

- (a) **Academic Year:** Two consecutive (one odd + one even) semesters constitute one academic year.
- (b) **Choice Based Credit System (CBCS):** The CBCS provides choice for students to select courses from the prescribed courses (core, open elective, discipline elective, ability and skill enhancement language, soft skill etc. courses).
- (c) **Course:** Usually referred to, as 'papers' is a component of a programme. All courses need not carry the same weight. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/ tutorials/laboratory work/ field work/ project work/ vocational training/viva/ seminars/term papers / assignments / presentations/ self-study etc. or a combination of some of these.
- (d) **Credit Based Semester System (CBSS):** Under the CBSS, the requirement for awarding a degree /diploma /certificate is prescribed in terms of number of credits to be earned.
- (e) **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week in a semester. One credit is equivalent to one hour of lecture or tutorial or two hours of practical work/field work per week in a semester. It will be generally equivalent to 13-15 hours of instructions.
- (f) **Grade Point:** A numerical weight allotted to each letter grade on 10-point scale.
- (g) **Credit Point:** It is the product of grade point and number of credits for a course.
- (h) **Letter Grade:** It is an index of the performance of students in a said course. Grades are denoted by letters O, A+, A, B+, B, C, P and F.
- (i) **Programme:** A programme leading to award of a Degree, diploma or certificate.
- (j) **Semester:** Each semester will consist of over 16 weeks of academic work equivalent to 90 actual teaching days. The odd semester may be generally scheduled from June to November and even semester from January to May.
- (k) **Semester Grade Point Average (SGPA):** It is a measure of performance of work done in a semester. It is the ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.
- (l) **Cumulative Grade Point Average (CGPA):** It is a measure of overall cumulative performance of a student over all the semesters of a programme. The CGPA is the ratio of total credit points secured by a student in various courses in all the semesters and sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.
- (m) **Transcript or Grade Card or Certificate:** Based on the grades earned, a Grade Card shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured etc.).

3. PROGRAMMES:**3.1 Faculty of Science**

- (a) Bachelor of Science, B.Sc. and Bachelor of Science with Honors, B.Sc. (Hons.), Master of Science, M.Sc. (Integrated) and Master of Science, M.Sc. in various Disciplines/ Subjects, including Life/Biological Sciences.
- (b) Bachelor of Computer Applications, BCA, Bachelor of Computer Applications with Honors, BCA (Hons.) and Master of Computer Applications, MCA.
- (c) Bachelor of Science (Food Science and Nutrition), B.Sc. (FSN), Bachelor of Science (Food Science and Nutrition) with Honors, B.Sc. (FSN)(Hons.) and Master of Science (Food Science and Nutrition), M.Sc. (FSN).

3.2 Faculty of Commerce

- (a) Bachelor of Business Administration, BBA, Bachelor of Business Administration with Honors, BBA (Hons.) and Master of Business Administration, MBA.

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 years 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.

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).

The candidates shall complete the courses equivalent to minimum credit requirements.

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

*Details of courses to be successfully completed equal to minimum credits requirement are described later.

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.

A candidate who successfully completes a three year Bachelor's Degree, with a minimum CGPA of 7.5 and wishes to pursue the fourth year of the undergraduate programme by research, shall be allowed to continue the programme with Research to obtain the Bachelor Degree with Honours by Research, while other candidates may continue their studies in the fourth year of the undergraduate programme with or without a research project along with other courses as prescribed for the programme to complete their Bachelor's Degree with Honours.

Candidates who successfully complete their four years Bachelor's Degree with Honours, either by research or course work with research component and a suitable grade are eligible to enter the 'Doctoral (Ph.D.) Programme' in a relevant discipline or to enter the 'Two Semester Master's Degree programme'.

Candidates who wish to complete the undergraduate and the postgraduate programmes faster, may do so by completing the different courses equal to the required number of credits and fulfilling all other requirements in N-1 semesters (N is number of semesters of an UG/PG programme). This facility is available for the programmes with a minimum duration of three years or six semesters. For example, a candidate may obtain his/her Six Semesters Bachelor's Degree, after successfully completing five semesters of the programme, provided he/she has completed courses equal to the required/ prescribed number of credits and fulfills all other requirements for awarding the degree. Likewise, a candidate may obtain his/her Eight Semesters Bachelor's Degree with Honours, after successfully completing seven semesters of the programme, provided he/she has completed courses equal to the

required number of credits and fulfills all other requirements for awarding the Bachelor's Degree with Honours.

Similarly, candidates may complete both the undergraduate and the postgraduate programmes in slow track. They may pursue the three years or six semester programmes in 4 to 5 years (8 to 10 semesters) and four years or eight semester programmes in 5 to 6 years (10 to 12 semesters). As a result, the higher education institutions have to admit candidates not only for programmes, but also for subjects or courses. But the new admissions are generally made in the beginning of an academic year or the beginning of odd semesters.

National Skills Qualifications Framework:

The National Skills Qualifications Framework (NSQF) is a competency-based framework that organizes qualifications according to a series of knowledge, skills and aptitude. The NSQF levels, graded from one to ten, are defined in terms of learning outcomes which the learner must possess regardless of whether they are obtained through formal, non-formal or informal learning. National Occupational Standards (NOS) are statements of the skills, knowledge and understanding needed for effective performance in a job role and are expressed as outcomes of competent performance. They list down what an individual performing that task should know and also are able to do. These standards can form the benchmarks for various education and training programs to match with the job requirements. Just as each job role may require the performance of a number of tasks, the combination of NOSs corresponding to these tasks form the Qualification Pack (QP) for that job role. The NOSs and QPs for each job role corresponding to each level of the NSQF are being formulated by the respective Sector Skill Councils (SSCs) set up by National Skill Development Corporation (NSDC) with industry leadership. The curriculum which is based on NOSs and QPs would thus automatically comply with NSQF.

General Education has to be synchronized/ aligned with skill and Vocational Education as per National Skills Qualifications Framework. The level descriptors are given below as described in UGC Guidelines on National Skills Qualifications Framework. The curriculum should be designed in a manner that at the end of year-1, year-2 and year-3, students are able to meet below mentioned level descriptors for level 5, 6 and 7 of NSQF, respectively: 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.

Levels	Process required	Professional knowledge	Professional skill	Core skill	Responsibility
Level 5	Job that requires well developed skill, with clear choice of procedures in familiar context.	Knowledge of facts, principles, processes and general concepts, in a field of work or study.	A range of cognitive and practical skills required to accomplish tasks and solve problems by selecting and applying basic methods, tools materials and information.	Desired mathematical skill, understanding of social, political and some skill of collecting and organizing information, communication.	Responsibility for own work and learning & some responsibility for other's works and learning.
Level 6	Demands wide range of specialized technical skill, clarity of knowledge and practice in broad range of activity involving standard / non-standard practices.	Factual and Theoretical knowledge in broad contexts within a field of work or study	A range of cognitive and practical skills required to generate solutions to specific problems in a field of work or study.	Reasonably good in Mathematical calculation, Understanding of social, political and, reasonably good in data collecting organizing information, and logical communication	Responsibility for own work and learning and full responsibility for other's works and learning
Level 7	Requires a command of wide ranging specialized theoretical and practical skill, involving variable routine and non-routine context.	Wide ranging, factual and theoretical knowledge in broad contexts within a field of work or study	Wide range of cognitive and practical skills required to generate solutions to specific problems in a field of work or study.	Good logical and mathematical skill; understanding of Social, political and natural environment; ability in collecting and organizing information, communication and presentation skill.	Full responsibility for output of group and Development.

Professional knowledge is what a learner should know and understand with reference to the subject; **Professional skills** are what a learner should be able to do and; **Core skills** refer to basic skills involving dexterity and use of methods, materials, tools and instruments used to perform job including IT skills needed for that job, **Responsibility aspect** determines (i) nature of working relationship, (ii) level of responsibility for self and others, (iii) managing change and (iv) accountability for actions.

The Integrated Master's Degree Programmes shall extend over Five academic years (Ten Semesters) with exit options with 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 Programme would lead to Master Degree in a subject.

Credit Requirements (Eligibility):	
The candidates shall complete courses equivalent to a minimum of;	
140 Credits	Regular Bachelor Degree.
180 Credits	Bachelor Degree with Honours.
220 Credits	Integrated Master's Degree.

Master's Degree Programmes:

- One Academic Year (Two Semesters)- for the Four Years Honours Degree holders.
- Two Academic Years (Four Semesters)-for the three years basic or three years 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 complete courses equal to a minimum of 44 credits.
- 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 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 rejoin 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.

5. ACADEMIC BANK OF CREDITS (ABC)

The Academic Bank of Credits (ABC), a national-level 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.

The multiple entry and exit options for students is facilitated at the undergraduate and Master's levels. It would facilitate credit accumulation through the facility created by the ABC scheme in the "Academic Bank Account" opened for students across the country to transfer and consolidate the credits earned by them by undergoing courses in any of the eligible HEIs. The ABC allows for credit redemption through the process of commuting the accrued credits in the Academic Bank Account maintained in the ABC for the purpose of fulfilling the credits requirements for the award of certificate/ diploma/degree by the authorized HEIs. Upon collecting a certificate, diploma or degree, all the credits earned till then, in respect of that certificate, diploma or degree, shall stand debited and deleted from the account concerned. HEIs offering programmes with the multiple entry and exit system need to register in the ABC to enable acceptance of multidisciplinary courses, credit transfer, and credit acceptance.

The validity of credits earned will be for a maximum period of seven years or as specified by the Academic Bank of Credits (ABC). The procedure for depositing credits earned, its shelf life, redemption of credits, would be as per UGC (Establishment and Operationalization of ABC scheme in Higher Education) Regulations, 2021.

Monitoring, Support and Quality Assurance by Universities and ABC:

1. It shall be the responsibility of Registered Higher Education Institutions, to monitor the development and operationalization of the ABC programme at the university level and at the level of their affiliated autonomous colleges.
2. Registered Higher Education Institutions shall offer teacher or staff training, mentoring, academic and administrative audit and other measures for improving the quality of performance of the ABC facility and promotion of holistic/ multidisciplinary

education with the support of ABC, which may be in the form of Faculty Development Programmes or Quality Improvement Programmes or Professional Development Programmes or Technology Incubation Programmes.

3. The Quality assurance of the implementation of ABC at the level of the registered university or autonomous college shall be developed by the University or autonomous college concerned either through the Internal Quality Assurance Cell (IQAC) or any other appropriate structured mechanism as may be decided by the Registered Higher Education Institution.
4. Every Registered Higher Education shall upload, annually, on its website, a report of its activities vis a vis the Academic Bank of Credits, as well as of measures taken by it for Quality assurance, Quality sustenance and Quality enhancement.
5. There shall be an Academic Bank of Credits-Grievance Redressal Mechanism at the level of Central Government/University Grants Commission/Academic Bank of Credits, and at the level of every Higher Education Institution registered with Academic Bank of Credits to address the grievance/appeals of students.

Study Webs of Active Learning for Young Aspiring Minds (SWAYAM:) is India's national Massive Open Online Course (MOOC) platform (www.swayam.gov.in), designed to achieve the three cardinal principles of India's Education Policy: access, equity, and quality.

The University Grants Commission (Credit Framework for Online Learning Courses through SWAYAM) Regulations, 2021 have been notified in the Gazette of India, which now facilitates an institution to allow up to 40 per cent of the total courses being offered in a particular programme in a semester through the online learning courses offered through the SWAYAM platform. Universities with approval of the competent authority may adopt SWAYAM Courses for the benefit of the students. A student will have the option to earn credit by completing quality-assured MOOC programmes offered on the SWAYAM portal or any other online educational platform approved by the UGC/ the regulatory body from time to time.

6. ELIGIBILITY FOR ADMISSIONS:

6.1. B.Sc. (Basic and Hons. degrees) and M.Sc. (Integrated) Programmes:

A candidate who has passed the two years Pre-University Examination conducted by the Pre-University Education Board in Karnataka or any other examination considered as equivalent thereto shall be eligible for admission to these programmes. Generally, a candidate to opt a subject should have studied that subject at the qualifying examination. Psychology, Home Science etc. may be exceptions to this requirement. But additional Conditions of Eligibility are required for specific subjects as follows:

	Candidate to opt core subject	Should have studied the below subjects at the qualifying examination
(a)	Physics	Mathematics in addition to Physics.
(b)	Biochemistry	Biochemistry or Chemistry.
(c)	Chemistry	Chemistry.
(d)	Statistics	Statistics or Mathematics.

(e)	Biotechnology, Botany/Applied Botany, Microbiology or Zoology /Applied Zoology	Biotechnology, Botany/Applied Botany, Microbiology or Zoology /Applied Zoology or Biology.
(f)	Geology/Environmental Science	At least two Science subjects.
(g)	Home Science or Library and Information Science	Any subjects.
(h)	M.Sc. (Integrated) Programme: Molecular Biology	

6.2. B.C.A. Basic and Honours Degree and B.B.A. Basic and Hons. degree:

B.C.A. (Basic and Honours Degree)	A candidate who has passed the two years Pre-University Examination conducted by the Pre-University Education Board in Karnataka or JODC / Three years Diploma in Engineering of Government of Karnataka or any other examination considered as equivalent thereto shall be eligible for admission.
B.B.A. (Basic and Hons. Degree)	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.

6.3. 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
- (c) 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.

7. MEDIUM OF INSTRUCTION:

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

8. 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 **Appendix A** and **Appendix B**.

Category of courses	Objective/Outcome
(a) 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.
(b) 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.
(c) 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.
(d) 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.
(e) 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 which makes credit transfer and mobility of students easier.
- (f) Major Discipline Elective Courses Elective Course is a course 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. Elective courses offered under the main discipline are 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. 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.
- (g) Minor Discipline Courses 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.
- (h) Open or Generic Elective Courses 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 is to offer the students the option to explore disciplines of interest beyond the choices in core and discipline specific electives.
Note: A core course offered in a discipline/subject may be treated as an elective by other discipline/subject and vice versa, such electives are referred as Open/Generic Electives.
- (i) Project work/ Dissertation/ Internship/ Entrepreneurship Project work is a special course involving application of knowledge in solving / analyzing / exploring a real life situation / difficult problem/ data analysis. I 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.
- (j) Sports, Cultural 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.

8.1. 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. (i) Environmental Studies and (ii) 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 KSHEC/ National Regulatory Bodies such as UGC or GEC/ NHERC or the universities may frame some papers, in addition to the list suggested.

8.2. 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.

8.3. Skill Enhancement Courses (Common for all Programmes):

- (a) 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:

Semester	B.Sc./B.C.A./M.Sc. (Integrated)	BBA
I/II	Digital Fluency/Financial Literacy/Banking & Finance.	Digital Fluency/ Creativity and Innovation.
III/IV	Artificial Intelligence/ Creativity and Innovation.	Artificial Intelligence/Critical thinking & problem solving.

V	Cyber Security/Entrepreneurship.	Cyber Security/Entrepreneurship.
VI	Professional Communication/ German / French.	Professional Communication/ German / French.
VII/VIII	Critical thinking & problem solving/Cultural Awareness.	Science and Society/ Cultural Awareness.

- (b) One soft core course or allied subject each in the seventh and eight semesters of the Honours programme and the integrated Master 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.

8.4. (a) **Core Subjects for B.Sc. Degree / Honours Degree Programmes**

A candidate may opt for any two core subjects for B.Sc. degree/Honours degree programmes.

The core subjects that a candidate can choose under the Faculty of Science, permitted by the university from time to time.

(b) **Core Subjects Based Programme:**

In these programmes, there is no need to choose core subjects as these are subject based.

B.C.A. Degree / Honours Degree Programme in Computer Applications.

B.B.A. Degree / Honours Degree Programme

8.5. **Vocational Subjects:**

Advertising, Computer Applications, Communicative English, 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.

8.6. **Sports, Cultural 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.

- Physical Education or Activities related to Yoga/ Sports and Games.
- N.S.S. / N.C.C / Ranger and Rovers/Red cross.
- Field studies / Industry Implant Training.
- Involvement in campus publication or other publications.
- Publication of articles in newspapers, magazines.
- Community work such as promotion of values of National Integration, Environment, Human rights and duties, Peace, Civic sense etc.
- A Small project work concerning the achievements of India in different fields.
- 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 dance/music/theatre and visual arts.
 - (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.

8.7. Choosing of Related Subjects in Science:

- (a) A candidate shall not opt for more than one language under core subjects.
- (b) A candidate opting for Electronics/Physics/Statistics/Computer Science as a core subject may also opt for Mathematics as a core subject.
- (c) A candidate opting for Biotechnology as a core subject may also opt Chemistry/ Biochemistry and Microbiology/Botany/Zoology/Home Science as a core subject.
- (d) A candidate opting for Microbiology as a core subject may also opt for Chemistry / Biochemistry and Biotechnology / Botany / Zoology / Home Science as core.
- (e) A candidate opting for Biochemistry as a core subject may also opt for Biotechnology/ Botany / Zoology / Sericulture / Microbiology as core subject.
- (f) A candidate opting for Environmental Science as a core subject may also opt for Chemistry / Biochemistry and Botany / Zoology / Microbiology / Biotechnology / Sericulture / Geology as core and open elective subjects, respectively.
- (g) A candidate opting for Genetics as a core subject may also opt for and Botany / Zoology / Microbiology / Biotechnology / Sericulture and Chemistry/ Biochemistry as core and open elective subjects, respectively.

9. ATTENDANCE AND CHANGE OF SUBJECTS:

- (a) 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.
- (b) An option to change a language/subject may be exercised only once within four weeks from the date of commencement of the I/III Semester on payment of fee prescribed.
- (c) 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.
- (d) 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.

- (e) 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.

10. 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 **Appendix A & Appendix B**. The Syllabi of the courses shall be as prescribed by the University.

11. (A). 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.

11. (B). BLENDED MODE (BL) AS A NEW MODE OF TEACHING-LEARNING:

UGC suggests implementing Blended Mode (BL) as a new mode of teaching-learning in higher education. BL is not a mere mix of online and face-to-face mode, but it refers to a well-planned combination of meaningful activities in both the modes. The blend demands consideration of several factors, mainly focusing on learning outcomes and the learner centred instructional environment. 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.

Implementing BL requires a systematic, planned instructional process. An effective teaching learning process in a blended environment calls for understanding and skills of using appropriate pedagogies with suitable technologies. The UGC Concept Note provides guidelines for implementation of BL. BL mode will provide this opportunity to learners to a great extent. Resources can be uploaded and external links can be posted on Learning Management systems prior to classroom sessions. These Out-of-class resources prove useful at least for acquiring information. Once the students study through the resources, classroom time can be utilized fruitfully in discussions. Online platforms such as discussion forums, shared documents, blogs, etc. may be used to help them share their ideas and knowledge on a common platform.

11. (C). Pedagogies for Online and Face-to-face Modes:

Learner-centred teaching-learning activities include several cognitive processes which enable learners to be communicative, confident, creative and cooperative. Learners in BL environments are not visualised as passive learners, but active learners generating ideas, assimilating knowledge individually and in teams. Once learning resources are provided on an online platform, students sitting in the classroom need not again listen to the instructor. The time, then, can be used for engaging them in activities. Even their online time can be used innovatively for making online sessions more effective and interesting. There are a few learning processes for both online and face-to-face mode. Higher education learners are adult learners who come with their own world of experience, previous knowledge gained at schooling level and previous years of education, exposure to other sources of knowledge, etc. Even pre-session resources suggested by teachers help them some knowledge, information. Lecturing of teacher assuming the learners are empty boxes is no more a preferred pedagogy. Learners, instead, can contribute by sharing their knowledge, ideas, views, either in the classroom or else on online platforms.

Brainstorming exercise always helps learners to think spontaneously; derive solutions, ideas; appreciate others' ideas and enjoy generation of several ideas by the whole group instead of listening to only teachers' ideas and views. It develops a sense of responsibility to think and learn ourselves. In addition to Brainstorming, Concept-mapping/Mind-mapping, Creative Presentations, Exposure to the real world, Case Study, Cooperative Learning

Strategies are a few learning processes for both online and face-to-face mode. Hence the area of assessment and evaluation needs to be explored again in the light of BL mode.

12. (A). Continuous Comprehensive Evaluation:

Summative evaluation will not suffice the need of testing all levels of learning outcomes. Modular curriculum demands assessment at several intervals during and after achievement of learning outcomes specified for every module. Cognitive skills such as logical thinking application of knowledge and skills, analysis and synthesis of concepts and rules demands evaluation strategies other than summative paper pencil tests. Innovative evaluation strategies are to be used by teachers during the semester. Increased weightage of internal evaluation should be encouraged by including innovative assessment and evaluation strategies.

12. (B). Innovative trends in Evaluation and Assessment:

Out-of-box thinking about summative as well as formative evaluation is expected from the teacher implementing BL mode. The following paragraphs throw light on a few innovative strategies. The list is not exhaustive but mentions a few points with the expectation of continuous exploration of such strategies by the teachers.

12. (C). Summative Evaluation Strategies:

- (i) **Open book examination:** It is a right way to move away from the conventional approach of examination where remembering and reproducing is prime. In real functioning beyond formal education, life is all about open book examination. Hence in Higher Education system, we must prepare students for work life by making them acquainted with open book examinations. It will also facilitate better understanding and application of the knowledge with a better potential for its positive impact.
- (ii) **Group examinations even for conventional theory papers:** Such an approach is followed some time for project and also laboratory assessments. But for theory type examinations it is generally not followed. The group examinations once introduced for theory papers can improve the average performance of a class as students would be encouraged to share their knowledge with each other and also help them improve their general understanding
- (iii) **Spoken / Speaking examinations:** These types different approached can be introduced now with the support of new generation of technologies. They can make examination faster and easier and also can be helpful to students with different abilities.
- (iv) **On demand examinations:** In most cases students are forced to write examination in a single go and collectively. However, with advent of new methods which are technology based and also blending of teaching-learning and examinations in new form, it would be a good approach to offer examination on demand to offer more flexibility and student centricity.

12. (D). Formative Evaluation Strategies:

- (i) **ePortfolio:** ePortfolio is not only a compilation of a few best assignments, activities of a learner throughout the programme, but his/her reflections about the assignments, experience and challenges faced during the process of working on these

assignments, overall approach, attitude, philosophy towards life as a learner and also his/her academic resume. ePortfolio is a comprehensive tool which becomes a mirror to the learner for the world.

- (ii) **Creative Products:** Innovative Pedagogies and relevant ICT tools enable learners to come out with creative products as an individual or group learning activities. These products are learning experiences in the beginning, but learners should always be given corrective feedback about their outputs. Once feedback is sought, learners need to be given chance to improve on their products and then can be considered for formative evaluation. e.g. preliminary concept-map can be revised after discussion of the topic, summarization and feedback. Revised concept- map can be assessed. One creative/collaborative activity may then be led towards the another product which can be an assessment activity. e.g. Group or individual presentations by self-learning would be a learning activity and not an assessment activity. Once teacher provided corrective feedback during such presentations, learners can be expected to revise the same presentations, add a small write-up/infograph/video to it and submit as an assignment. Creative assignments such as digital stories, Cartoon strips, drama scripts, eNewsletter, eMagazine, Recorded interviews of stakeholders, Case studies, etc. can be used for formative assessment.
- (iii) **Classroom/Online Quizzes:** Though paper-pencil tests, over-use of question-answers may be discouraged for formative assessments, a few ICT tools for quizzes and games can be used eventually for formative assessment.

12. (E). Use of AI tools for Proctoring as well as assessments:

During the Covid time, many exams were forced to be conducted in an online mode. These were supported by variety of tools which came into being in recent times and were based on proctoring through Artificial Intelligence tools. However, AI as technology can be used for many more assessments like, attention levels, speed of learning, level of learning etc. Hence new tools should be experimented with for examinations and assessments.

13. ASSESSMENT AND EVALUATION:

Assessment is an integral part of the teaching learning process. A multidisciplinary program requires a multidimensional assessment to measure the effectiveness of the diverse courses. The assessment process acts as an indicator to both faculty and students to improve continuously. The following are the guidelines for effective assessment of the program.

- (a) Student assessment should be as comprehensive as possible and provide meaningful and constructive feedback to faculty and student about the teaching-learning process.
- (b) Assessment tasks need to evaluate the capacity to analyze and synthesize new information and concepts rather than simply recall information previously presented.
- (c) The process of assessment should be carried on in a manner that encourages better

- student participation and rigorous study.
- (d) Assessment should be a combination of continuous formative evaluation and an end- point summative evaluation.
 - (e) A range of tools and processes for assessment should be used (e.g. open book tests, portfolios, case study/assignments, seminars/presentations, field work, projects, dissertations, peer and self-assessment) in addition to the standard paper-pencil test. 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 shall be immediately provided to the students.
 - (f) Paper-pencil tests should be designed rigorously using a range of tools and processes (e.g. constructed response, open ended items, multiple-choice with more than one correct answer). Faculty may provide options for a student to improve his / her performance in the continuous assessment mode.
 - (g) Continuous/ Internal assessment marks shall be shown separately. A candidate who has failed or wants to improve the result, shall retain the IA marks, provides he/she fulfils the minimum requirements.

13.1 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.

	Theory	Practical
Total Marks for each course	100% Marks	100% Marks
Continuous assessment (C1)	20% Marks	20% Marks
Continuous assessment (C2)	20% Marks	30% Marks
Semester End Examination (C3)	60% Marks	50% Marks

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, field work, industrial practicum, 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 will be the maximum marks of 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) The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under.

Evaluation of Internal Assessment Marks

	C1 (7-8th week)	C2 (14-15th week)	Total Marks
Session Test	10 Marks	10 Marks	20%
Assignment/Report	10 Marks	10 Marks	20%
Total	20 Marks	20 Marks	40%

- For practical course of full credits, marks shall be awarded for Practical Record Maintenance (the ratio is 50% : 50%).
 - Conduct of Case study / Assignment, etc. can be either in C1 or in C2 component at the convenience of the concerned teacher.
 - The teachers concerned shall conduct test / 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 Principal / HOD in the case of Colleges. 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.
- (f) The marks of the internal assessment shall be published on the notice board of the department / college for information of the students.
- (g) The Internal assessment marks shall be communicated to the Controller of Examinations at least 10 days before the commencement of the examinations and the Controller of Examinations (CE) shall have access to the records of such periodical assessments.
- (h) There shall be no minimum in respect of internal assessment marks.
- (i) Internal assessment marks may be recorded separately. A candidate who has failed or rejected the result, shall retain the internal assessment marks.
- (j) **If the student has passed in the practical exam by securing prescribed marks need not reappear for the practical exam if he/she has failed in the theory examination.**

14. CONDUCT OF EXAMINATIONS:

A candidate shall register for all the courses/papers of a semester for which he/she fulfils the requirements, when he/she appears for examination of that semester for the first time.

- (a) There shall be Theory and Practical examinations at the end of each semester, ordinarily during November-December for odd semesters and during May-June for even semesters, as prescribed in the Scheme of Examinations.
- (b) Unless otherwise stated in the schemes of examination, practical examinations shall be conducted at the end of each semester. The statement of marks sheet and the answer books of practical examinations shall be sent to the Registrar (Evaluation)/Controller of Examinations by the Chief Superintendent of the respective Colleges immediately after the practical examinations.
- (c) The candidate shall submit the record book for practical examination duly certified by the course teacher and the HOD/staff in-charge. It shall be evaluated at the end of the Semester at the practical examination.

15. MINIMUM FOR A PASS:

- (a) 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.
- (b) 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.
- (c) 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+).
- (d) A candidate who passes the semester examinations in parts is eligible for only Class, CGPA and Alpha-Sign Grade but not for ranking.
- (e) 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.
- (f) If a candidate fails in a subject, either in theory or in practicals, 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 practicals, separately) as stated above.

16. CARRY OVER:

Candidates who fail in lower semester examinations may go to the higher semesters and take the lower semester examinations.

17. CLASSIFICATION OF SUCCESSFUL CANDIDATES:

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 Science/Commerce.
- Bachelor's Degree in Science/Commerce.
- Diploma in 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 semesters Master's Degree Programmes are also classified on the basis of CGPA of two semesters of the Master's Degree Programmes.

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

18. REJECTION OF RESULTS:

- (a) A candidate may be permitted to reject result of the whole examination of any semester. Rejection of result course/paper or subject wise shall not be permitted.
- (b) The candidate who has rejected the result shall appear for the immediately following examination.
- (c) The rejection shall be exercised only once in each semester and the rejection once exercised shall not be revoked.
- (d) 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 result.

- (e) A candidate who rejects the result is eligible for only SGPA/CGPA or Class and not for ranking.

19. IMPROVEMENT OF RESULTS:

- (a) 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.
- (b) 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.
- (c) 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.

20. TRANSFER OF ADMISSION:

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

20.1. 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 fulfill 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.

20.2. 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 fulfill 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.

21. 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.

22. MODIFICATION TO THE REGULATIONS:

Notwithstanding the foregoing, any amendments / modifications issued or notified by the University Grants Commission/ Higher Education Commission of India and its verticals such as National Higher Education Regulatory Council, General Education Council or the State Government, from time to time, shall be deemed to have been incorporated into these Regulations and shall constitute an integral part of these Regulations.

23. 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.

The University of Mysore was adopted the New Education Policy (NEP) for Bachelor of Science (Basic/Hons.), Bachelor of Computer Applications (BCA) (Basic/Hons.), and Bachelor of Business Administration (BBA) (Basic/Hons.), programmes effective from the academic year 2021-22. Further, University of Mysore devised the Programme Structure for these courses for only **FIRST** and **SECOND SEMESTERS (Annexure-I)**.

The Yuvaraja College, A Constituent Autonomous College of University of Mysore, adopted the New Education Policy (NEP) for Bachelor of Science (Basic/Hons.), Bachelor of Computer Applications (BCA) (Basic/Hons.), and Bachelor of Business Administration (BBA) (Basic/Hons.), programmes effective from the academic year 2021-22. In lines with the directions of Higher Education Council, Government of Karnataka and the University of Mysore, the College adopted the Programme Structure for Bachelor of Science (Basic/Hons.), Bachelor of Computer Applications (BCA) (Basic/Hons.), and Bachelor of Business Administration (BBA) (Basic/Hons.). The devised programme structure and Scheme of Examination for the **FIRST** and **SECOND SEMESTERS (Annexure-II)**. The College will adopt the changes in the regulations, programme structure, Scheme of Examinations, etc., in toto made by the Higher Education Council, Government of Karnataka and the University of Mysore, from time to time.

Appendix A

**MODEL PROGRAM STRUCTURES FOR THE UNDER-GRADUATE PROGRAMS:
Bachelor of Science (Basic/ Hons.)/ Bachelor of Business Administration
(Basic/Hons.)/ Bachelor of Computer Applications (Basic/Hons.).**

The Government of India has notified NEP-2020 on July 29, 2020 based on Dr. Kasturirangan Committee's Report. The objective is to bridge the gap between the current system of education and what is required in the 21st century. It is to have Holistic and Multidisciplinary Under-Graduate Education to produce employable graduates with integrated personality.

The Subject Committees constituted to design and draft the curriculum in their subjects have followed these Model Program Structures. The Terminology used in these Program Structures are.

- Discipline Core (DSC) refers to Core Courses/Papers in a Core Discipline/ Subject
- Discipline Elective (DSE) refers to Elective Courses/Papers in the Core Subject or Discipline.
- Open Elective (OE) refers to Elective Courses/Papers in a non-core Subject across all disciplines.

Program Structures also contain Ability Enhancement Compulsory Courses (AECC), Languages, Skill Enhancement Courses (SEC) (Both skills and value based). Pedagogy involves L+T+P model. Generally, subjects with practical involve L+P, while the subjects without practical involve L+T model. The numbers in parentheses indicate credits allotted to various courses/papers as per definitions of Choice Based Credit System (CBCS). Generally, 1 hour of Lecture or 2 hours of practical per week in a semester is assigned one credit. Generally, core subject theory courses/papers will have 3 or 4 credits, while practical are assigned 2 or 3 credits.

A1. Model Programme Structure for Bachelor of Science (Basic/Hons.) with Botany as Major and Zoology as Minor (both subjects with practical) in the 3rd year of the programme.

Sem.	Discipline Core (DSC) (Credits) (L+T+P)	Discipline Elective (DSE) / Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)			Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)		
I	Botany C1 (4+2) Zoology C1 (4+2)	OE-1 (3)	L1-1 (3), L2-1 (3) (4 hrs. each)		SEC-1: Digital Fluency (2) (1+0+2)	Yoga (1) (0+0+2)	Health &Wellness (1) (0+0+2)	25
II	Botany C2 (4+2) Zoology C2 (4+2)	OE-2 (3)	L1-2 (3), L2-2 (3) (4 hrs. each)	Env. Studies (2) (3 hrs.)		Sports (1) (0+0+2)	NCC/NSS/R&R(S&G)/ Cultural (1)(0+0+2)	25
Exit option with Certificate (with the completion of courses equal to a minimum of 48 credits) OR continue studies								
III	Botany C3 (4+2) Zoology C3 (4+2)	OE-3 (3)	L1-3 (3), L2-3 (3) (4 hrs. each)		SEC-2: AI or some other SEC (2) (1+0+2)	Sports (1) (0+0+2)	NCC/NSS/R&R(S&G)/ Cultural (1) (0+0+2)	25
IV	Botany C4 (4+2) Zoology C4 (4+2)	OE-4 (3)	L1-4 (3), L2-4 (3) (4 hrs. each)	Constitution of India (2)		Sports (1) (0+0+2)	NCC/NSS/R&R(S&G)/ Cultural (1) (0+0+2)	25
Exit option with Diploma in Science (with the completion of courses equal to a minimum of 96 credits) OR continue studies with Major and Minor								
V	Botany C5 (3+2) Botany C6 (3+2) Zoology C5 (3+2)	Vocational-1 (3)			SEC-3: Cyber Security or some other SEC (2) (1+0+2)	Sports (1) (0+0+2)	NCC/NSS/R&R(S&G)/ Cultural (1) (0+0+2)	22
VI	Botany C7 (3+2) Botany C8 (3+2) Zoology C6 (3+2)	Vocational-2 (3) Internship (2)			SEC-4: Professional Communication (2) (1+0+2)	Sports (1) (0+0+2)	NCC/NSS/R&R(S&G)/ Cultural (1) (0+0+2)	24
Exit with Bachelor of Science Degree, B. Sc. (with the completion of courses equal to a minimum of 140 credits) OR continue studies with the Major								
VII	Botany C9 (3+2) Botany C10 (3+2) Botany e C11 (3)	Botany E-1 (3) Botany E-2 (3) Res. Methodology (3)						22
VIII	Botany C12 (3) Botany C13 (3) Botany C14 (3)	Botany E-3 (3) Botany E-4 (3) Research Project (6)*						21
Award of Bachelor of Science Degree with Honours, B.Sc. (Hons.) in Botany (with the completion of courses equal to a minimum of 180 credits)								

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

A2. Model Programme Structure for Bachelor of Science (Basic/Hons.) with both Botany & Zoology as Majors (subjects with practical) in the 3rd year of the Programme.

Sem.	Discipline Core (DSC) (Credits)	Discipline Elective(DSE) / Open Elective (OE) (Credits)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)			Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)		
I	Botany C1 (4+2) Zoology C1 (4+2)	OE-1 (3)	L1-1 (3), L2-1 (3) (4 hrs. each)		SEC-1: Digital Fluency (2) (1+0+2)	Yoga (1) (0+0+2)	Health &Wellness (1) (0+0+2)	25
II	Botany C2 (4+2) Zoology C2 (4+2)	OE-2 (3)	L1-2 (3), L2-2 (3) (4 hrs. each)	Env. Studies (2) (3 hrs.)		Sports (1) (0+0+2)	NCC/NSS/R&R(S&G) /Cultural (1)(0+0+2)	25
Exit option with Certificate (with the completion of courses equal to a minimum of 48 credits) OR continue studies								
III	Botany C3 (4+2) Zoology C3 (4+2)	OE-3 (3)	L1-3 (3), L2-3 (3) (4 hrs. each)		SEC-2: AI or some other SEC (2) (1+0+2)	Sports (1) (0+0+2)	NCC/NSS/R&R(S&G) /Cultural (1) (0+0+2)	25
IV	Botany C4 (4+2) Zoology C4 (4+2)	OE-4 (3)	L1-4 (3), L2-4 (3) (4 hrs. each)	Constitution of India (2)		Sports (1) (0+0+2)	NCC/NSS/R&R(S&G) /Cultural (1) (0+0+2)	25
Exit option with Diploma in Science (with the completion of courses equal to a minimum of 96 credits) OR continue studies with both subjects as majors								
V	Botany C5 (3+2) Botany C6 (3+2) Zoology C5 (3+2) Zoology C6 (3+2)				SEC-3: Cyber Security/other SEC (2) (1+0+2)	Sports (1) (0+0+2)	NCC/NSS/R&R(S&G) /Cultural (1) (0+0+2)	24
VI	Botany C7 (3+2) Botany C8 (3+2) Zoology C7 (3+2) Zoology C8 (3+2)				SEC-4: Professional Communication (2)	Sports (1) (0+0+2)	NCC/NSS/R&R(S&G) /Cultural (1) (0+0+2)	24
Exit option with Bachelor of Science, B. Sc. Degree (with the completion of courses equal to a minimum of 140 credits) OR continue studies								
VII	Zoology C9 (3+2) Zoology C10 (3+2) Zoology C11 (3)	Zoology E-1 (3) Zoology E-2 (3) Res. Methodology (3)						22
VIII	Zoology C12 (3) Zoology 13 (3) Zoology 14 (3)	Zoology E-3 (3) Zoology E-4 (3) Research Project (6)*						21
Award of Bachelor of Science Degree with Honours, B.Sc. (Hons.) in Zoology (with the completion of courses equal to a minimum of 180 credits)								

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

A3. Model Programme Structure for Bachelor of Computer Applications (Basic/Hons.) with Computer Applications as Programme Core Subject with Practical.

Sem.	Discipline Core (DSC) (Credits)	Discipline Elective (DSE) / Open Elective (OE) (Credits)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)			Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)		
I	CA C-1 (3+2) CA C-2 (3+2) CA C-3 (3)	OE-1 (3)	L1-1 (3), L2-1 (3) (4 hrs. each)	Env. Studies (2) (3 hrs.)		Yoga (1) (0+0+2)	Health & Wellness (1) (0+0+2)	26
II	CA C-4 (3+2) CA C-5 (3+2) CA C-6 (3)	OE-2 (3)	L1-2 (3), L2-2 (3) (4 hrs. each)		SEC-1: Digital Fluency (2) (1+0+2)	Sports (1) (0+0+2)	NCC/NSS/R&R(S&G)/ Cultural (1) (0+0+2)	26
Exit option with Certificate in Computer Applications (with the completion of courses equivalent to a minimum of 48 credits) OR continue studies								
III	CA C-7 (3+2) CA C-8 (3+2) CA C-9 (3)	OE-3 (3)	L1-3 (3), L2-3 (3) (4 hrs each)	Constitution of India (2)		Sports (1) (0+0+2)	NCC/NSS/R&R(S&G)/C ultural (1) (0+0+2)	26
IV	CA C-10 (3+2) CA C-11 (3+2) CA C-12 (3)	OE-4 (3)	L1-4 (3), L2-4 (3) (4 hrs each)		SEC-2: Artificial Intelligence/other SEC (2) (1+0+2)	Sports (1) (0+0+2)	NCC/NSS/R&R(S&G)/C ultural (1) (0+0+2)	26
Exit option with Diploma in Computer Applications (with the completion of courses equivalent to a minimum of 96 credits) OR continue studies								
V	CA C-13 (3+2) CA C-14 (3+2) CA C-15 (3)	CA E-1 (3) Vocational-1 (3)			SEC-3: Cyber Security/other SEC (2) (1+0+2)	Sports (1) (0+0+2)	NCC/NSS/R&R(S&G)/C ultural (1) (0+0+2)	23
VI	CA C-16 (3+2) CA C-17 (3+2) CA C-18 (3)	CA E-2 (3) Vocational-2 (3) Internship (2)			SEC-4: Professional Communication (2)	Sports (1) (0+0+2)	NCC/NSS/R&R(S&G)/ Cultural (1) (0+0+2)	25
Exit Option with Bachelor of Computer Applications Degree, BCA Degree (with completion of courses equivalent to a minimum of 140 credits) OR continue studies								
VII	CA C-19 (3+2) CA C-20 (3+2) CA C-21 (3)	CA E-3 (3) Vocational-3 (3) Res. methodology (3)						22
VIII	CA C-22 (3) CA C-23 (3) CA C-24 (3)	CA E-4 (3) Vocational-4 (3) Research Project(6)*						21
Award of Bachelor of Computer Applications with Honours, BCA (Hons.) Degree (with completion of courses equal to a minimum of 180 credits)								

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

A4. Model Programme Structure for Bachelor of Business Administration, B.B.A. (Basic/Hons.) with Business Administration as Programme Core.

Sem.	Discipline Core (DSC) (Credits)	Discipline Elective (DSE) /Open Elective (OE) (Credits)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits) (L+T+P)		Skill Enhancement Courses (SEC)			Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)		
I	BBA C1 (4) BBA C2 (4) BBA C3 (4)	OE-1 (3)	L1-1(3), L2-1(3) (4 hrs. each)		SEC-1: Digital Fluency (2) (1+0+2)	Yoga (1) (0+0+2)	Health & Wellness (1) (0+0+2)	25
II	BBA C4 (4) BBA C5 (4) BBA C6 (4)	OE-2 (3)	L1-2(3), L2-2(3) (4 hrs. each)	Environmental Studies (2)		Sports (1) (0+0+2)	NCC/NSS/R&R(S&G)/ Cultural (1) (0+0+2)	25
Exit option with Certificate in Business Administration (with the completion of courses equal to a minimum of 48 credits) OR continue studies								
III	BBA C7 (4) BBA C8 (4) BBA C9 (4)	OE-3 (3)	L1-3(3), L2-3(3) (4 hrs each)		SEC-2: AI /other SEC (2) (1+0+2)	Sports (1) (0+0+2)	NCC/NSS/R&R(S&G)/ Cultural (1) (0+0+2)	25
IV	BBA C10 (4) BBA C11 (4) BBA C12 (4)	OE-4 (3)	L1-4(3), L2-4(3) (4 hrs each)	Constitution of India (2)		Sports (1) (0+0+2)	NCC/NSS/R&R(S&G)/ Cultural (1) (0+0+2)	25
Exit option with Diploma in Business Administration (with the completion of courses equal to a minimum of 96 credits) OR continue studies								
V	BBA C13 (4) BBA C14 (4) BBA C15 (4)	BBA E1 (3) Vocational-1 (3) Internship (2)			SEC-3: Cyber Security/ other SEC (2) (1+0+2)	Sports (1) (0+0+2)	NCC/NSS/R&R(S&G)/ Cultural (1) (0+0+2)	24
VI	BBA C16 (4) BBA C17 (4) BBA C18 (4)	BBA E2 (3) Vocational-2 (3) Internship (2)			SEC-4: Professional Communication (2)	Sports (1) (0+0+2)	NCC/NSS/R&R(S&G)/ Cultural (1) (0+0+2)	24
Exit Option with BBA Degree, BBA (with the completion of courses equal to a minimum of 140 credits) OR continue studies								
VII	BBA C19 (4) BBA C20 (4) BBA C21 (4)	BBA E3 (3) Vocational-3 (3) Res. Methodology (3)						21
VIII	BBA C22 (3) BBA C23 (3) BBAC24 (3)	BBA E4 (3) Vocational-4 (3) Res. Project (6)*						21
Award of Bachelor of Business Administration Degree with Honours (with the completion of courses equal to a minimum of 180 credits)								

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

COURSE PATTERNS, SCHEMES OF EXAMINATIONS AND CREDITS

T- Theory; **P-** Practical; **AECC-** Ability Enhancement Compulsory Courses; **ES-** Environmental Studies; **CoI-** Constitution of India; **SEC-** Skill Enhancement Courses; **CC/EA & CA-** Co-curricular/Extension and Cultural Activities.

1. B.SC. DEGREE/ HONOURS DEGREE AND M.SC. (INTEGRATED) DEGREE PROGRAMMES**I/ II/ III/ IV SEMESTERS**

Semester	Subjects	Course/ Paper		Instruction hrs/week	Duration of Examination	Marks			Credits
						IA	Examination	Total	
I-IV	2 Disciplines Core with practicals	1	1T	1 x 4	1 x 2	1 x 40	1 x 60	1 x 100	1 x 4
			1P	1 x 4	1 x 3	1 x 25	1 x 25	1 x 50	1 x 2
		2	1T	1 x 4	1 x 2	1 x 40	1 x 60	1 x 100	1 x 4
			1P	1 x 4	1 x 3	1 x 25	1 x 25	1 x 50	1 x 2
	*One of them may be Discipline/ Subject with practical and the other without practical, then								
	1 Discipline Core with Practicals	1	1T	1 x 4	1 x 2	1 x 40	1 x 60	1 x 100	1 x 4
			1P	1 x 4	1 x 3	1 x 25	1 x 25	1 x 50	1 x 2
	1 Discipline Core without Practicals	1 + 1	1 x 2T	1 x 2 x 3	1 x 2 x 2	1 x 2 x 40	1 x 2 x 60	1 x 2 x 100	1 x 2 x 3
	1 Open Elective	1	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	2 Languages	1 + 1	1 x 2T	2 x 4	2 x 2	2 x 40	2 x 60	2 x 100	2 x 3
	SEC	1	T+P	1 + 2	1 x 2	1 x 25	1 x 25	1 x 50	1 x 2
	Yoga/ Sports	1	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
H&W/NCC/NSS/CA	1	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1	
I-II	Env. Science	1	1T	1 x 3	1 x 2	1 x 20	1 x 30	1 x 50	1 x 2
III-IV	Indian Constitution	1	1T	1 x 3	1 x 2	1 x 20	1 x 30	1 x 50	1 x 2

V/VI SEMESTER (WITH MAJOR AND MINOR, BOTH THE SUBJECTS WITH PRACTICAL)

Semester	Subjects	Course/ Paper	Instruction hrs/week	Duration of Examination	Marks			Credits
					IA	Examination	Total	
V-VI	Major Discipline with Practical	2T	2 x 3	2 x 2	2 x 40	2 x 60	1 x 100	2 x 3
		2P	2 x 4	2 x 3	2 x 25	2 x 25	1 x 50	2 x 2
	Minor Discipline with practical	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
		1P	1 x 4	1 x 3	1 x 25	1 x 25	1 x 50	1 x 2
	Vocational Course	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	SEC	T+P	1 + 2	1 x 2	1 x 25	1 x 25	1 x 50	1 x 2
	Yoga/ Sports	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
VI	NCC/NSS/CA	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
	Internship between 5 th & 6 th Semester	3 to 4 weeks	Report & presentation		1 x 25	1 x 25	1 x 50	1 x 2

V/VI SEMESTER (WITH BOTH DISCIPLINES AS MAJORS & SUBJECTS WITH PRACTICAL)

Semester	Subjects	Course/ Paper	Instruction hrs/week	Duration of Examination	Marks			Credits
					IA	Examination	Total	
V-VI	Both disciplines as majors and Subjects with Practical,	2T	2 x 3	2 x 2	2 x 40	2 x 60	1 x 100	2 x 3
		2P	2 x 4	2 x 3	2 x 25	2 x 25	1 x 50	2 x 2
		2T	2 x 3	2 x 2	2 x 40	2 x 60	2 x 100	2 x 3
		2P	2 x 4	2 x 3	2 x 25	2 x 25	2 x 50	2 x 2
	SEC	T+P	1 + 2	1 x 2	1 x 25	1 x 25	1 x 50	1 x 2
	Yoga/ Sports	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
	NCC/NSS/CA	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1

V/VI SEMESTER (WITH MAJOR DISCIPLINES WITH PRACTICAL AND MINOR DISCIPLINE WITHOUT PRACTICAL)

Semester	Subjects	Course/ Paper	Instruction hrs/week	Duration of Examination	Marks			Credits
					IA	Examination	Total	
V-VI	Major Discipline. With Practical	DSC-2T	2 x 3	2 x 2	2 x 40	2 x 60	1 x 100	2 x 3
		DSC-2P	2 x 4	2 x 3	2 x 25	2 x 25	1 x 50	2 x 2
	Minor Discipline, Without practical	1T	1 x 4	1 x 2	1 x 40	1 x 60	1 x 100	1 x 4
	Vocational Course	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	SEC	T+P	1 + 2	1 x 2	1 x 25	1 x 25	1 x 50	1 x 2
	Yoga/ Sports	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
	NCC/NSS/CA	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
V	Discipline Elective	DSE-1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
VI	Internship between 5 th & 6 th Semester	3 to 4 weeks	Report & presentation		1 x 25	1 x 25	1 x 50	1 x 2

VII/VIII SEMESTER

Semester	Subjects	Course/ Paper	Instruction hrs/week	Duration of Examination	Marks			Credits
					IA	Examination	Total	
VII	Major subject with practical	DSC-3T	3 x 3	3 x 2	3 x 40	3 x 60	3 x 100	3 x 3
		DSC-2P	2 x 4	2 x 2	2 x 25	2 x 25	2 x 50	2 x 2
		DSE-2T	2 x 3	2 x 2	2 x 40	2 x 60	2 x 100	2 x 3
	Research Methodology	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
VIII	Major Subject	DSC-3T	3 x 3	3 x 2	3 x 40	3 x 60	3 x 100	3 x 3
		DSE-2T	2 x 3	2 x 2	2 x 40	2 x 60	2 x 100	2 x 3
		Project Work*	12	Report Evaluation	60	40 (Viva) + 100	1 x 200	1 x 6

*Two Discipline Elective papers may be offered in lieu of the project work.

2. B. C. A. DEGREE/ HONOURS DEGREE PROGRAMMES**I/ II/ III/ IV SEMESTERS**

Semester	Subjects	Course/ Paper	Instruction hrs/week	Duration of Examination	Marks			Credits
					IA	Examination	Total	
I-IV	Discipline Core Courses	3T	3 x 3	2 x 2	3 x 40	3 x 60	3 x 100	3 x 3
		2P	2 x 3	2 x 3	2 x 25	2 x 25	2 x 50	2 x 2
	Open Elective	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	2 Languages	2T	2 x 4	2 x 2	2 x 40	2 x 60	2 x 100	2 x 3
	Yoga/ Sports	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
	H&W/NCC/NSS/CA	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
I	Env. Science	1T	1 x 3	1 x 2	1 x 20	1 x 30	1 x 50	1 x 2
II, IV	SEC	T+P	1 + 2	1 x 2	1 x 25	1 x 25	1 x 50	1 x 2
III	Indian Constitution	1T	1 x 3	1 x 2	1 x 20	1 x 30	1 x 50	1 x 2

V/ VI SEMESTERS

Semester	Subjects	Course/ Paper	Instruction hrs/week	Duration of Examination	Marks			Credits
					IA	Examination	Total	
V, VI	Discipline Core Courses	3T	3 x 3	2 x 2	3 x 40	3 x 60	3 x 100	3 x 3
		2P	2 x 3	2 x 3	2 x 25	2 x 25	2 x 50	2 x 2
	Discipline Elective	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	Vocational Course	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	SEC	T+P	1 + 2	1 x 2	1 x 25	1 x 25	1 x 50	1 x 2
	Yoga/ Sports	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
	H&W/NCC/NSS/CA	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
VI	Internship between 5 th & 6 th Semester	3 to 4 weeks		Report & presentation	1 x 25	1 x 25	1 x 50	1 x 2

VII/VIII SEMESTERS

Semester	Subjects	Course/ Paper	Instruction hrs/week	Duration of Examination	Marks			Credits
					IA	Examination	Total	
VII	Discipline Core Subject	3T	3 x 3	2 x 2	3 x 40	3 x 60	3 x 100	3 x 3
		2P	2 x 3	2 x 3	2 x 25	2 x 25	2 x 50	2 x 2
	Discipline Elective	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	Vocational Course	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	Research Methodology	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
VIII	Discipline Core Subject	3T	3 x 3	2 x 2	3 x 40	3 x 60	3 x 100	3 x 3
	Discipline Elective	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	Vocational Course	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	Project Work*	1P	12 Hrs	Viva + Report Evaln.	60	40 (Viva) + 100	1 x 200	1 x 6

*Two Discipline Elective papers may be offered in lieu of the project work

3. B. B. A. DEGREE/ HONOURS DEGREE PROGRAMMES**I/ II/ III/ IV SEMESTERS**

Semester	Subjects	Course/ Paper	Instruction hrs/week	Duration of Examination	Marks			Credits
					IA	Examination	Total	
I-IV	Discipline Core Subjects	3T	3 x 4	3 x 2	3 x 40	3 x 60	3 x 100	3 x 4
	Open Elective	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	2 Languages	2T	2 x 4	2 x 2	2 x 40	2 x 60	2 x 100	2 x 3
	Yoga/ Sports	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
	H&W/NCC/NSS/CA	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
II	Env. Science	1T	1 x 3	1 x 2	1 x 20	1 x 30	1 x 50	1 x 2
I, III	SEC	T+P	1 + 2	1 x 2	1 x 25	1 x 25	1 x 50	1 x 2
IV	Indian Constitution	1T	1 x 3	1 x 2	1 x 20	1 x 30	1 x 50	1 x 2

V/ VI SEMESTERS

Semester	Subjects	Course/ Paper	Instruction hrs/week	Duration of Examination	Marks			Credits
					IA	Examination	Total	
V/VI	Discipline Core Subjects	3T	3 x 4	3 x 2	3 x 40	3 x 60	3 x 100	3 x 4
	Discipline Elective	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	Vocational Course	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	Internship	3 to 4 weeks		Report & presentation	1 x 25	1 x 25	1 x 50	1 x 2
	SEC	T+P	1 + 2	1 x 2	1 x 25	1 x 25	1 x 50	1 x 2
	Yoga/ Sports	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
	H&W/NCC/NSS/CA	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1

VII/ VIII SEMESTERS

Semester	Subjects	Course/ Paper	Instruction hrs/week	Duration of Examination	Marks			Credits
					IA	Examination	Total	
VII	Discipline Core Subjects	3T	3 x 4	3 x 2	3 x 40	3 x 60	3 x 100	3 x 4
	Discipline Elective	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	Vocational Course	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	Research Methodology	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
VIII	Discipline Core Subjects	3T	3 x 4	3 x 2	3 x 40	3 x 60	3 x 100	3 x 4
	Discipline Elective	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	Vocational Course	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
	Research Project*		12 Hrs	Viva + Report Evaluation	60	40 (Viva) + 100	1 x 200	1 x 6

*Two Discipline Elective papers may be offered in lieu of the project work.

APPENDIX C.

COMPUTATION OF SEMESTER GRADE POINT AVERAGE AND CUMULATIVE (AGGREGATE) GRADE POINT AVERAGE

1. Calculation of Semester Grade Point Average (SGPA):

The Grade Points (GP) in a course shall be assigned on the basis of marks scored in that course as per the Table I. Any fraction of mark in the borderline less than 0.50 be ignored in assigning GP and the fractions of 0.50 or more be rounded off to the next integers. The Credit Points (CP) shall then be calculated as the product of the grade points earned and the credits for the course. The total CP for a semester is the sum of CP of all the courses of the semester. The SGPA for a semester is computed by dividing the total CP of all the courses by the total credits of the semester. It is illustrated below with typical examples.

2. Calculation of Aggregate or Cumulative GPA (CGPA):

The aggregate or cumulative SGPA (CGPA) at the end of the second, fourth, sixth, eighth and tenth semesters shall be calculated as the weighted average of the semester grade point averages. The CGPA is calculated taking into account all the courses undergone over all the semesters of a programme, i.e. The CGPA is obtained by dividing the total of semester credit weightages by the maximum credits for the programme.

$$\text{CGPA} = \Sigma(C_i \times G_i) / \Sigma C_i$$

where G_i is the grade point of the i^{th} course/ paper and C_i is the total number of credits for that course/ paper.

$$\text{CGPA} = \Sigma(C_i \times S_i) / \Sigma C_i$$

where S_i is the SGPA of the i^{th} semester and C_i is the total number of credits in that semester. An illustration is given below.

Table 1: Conversion of Percentage of Marks into Grade Points in a Course/Paper

% Marks in a paper/practical	Grade Point (GP)	% Marks in a paper/practical	Grade Point (GP)
98-100	10	63-67	6.5
93-97	9.5	58-62	6.0
88-92	9.0	53-57	5.5
83-87	8.5	48-52	5.0
78-82	8.0	43-47	4.5
73-77	7.5	40-42	4.0
68-72	7.0	Below 40	0

AN ILLUSTRATION OF CALCULATION OF SEMESTER GRADE POINT AVERAGE (GPA):**I SEMESTER (TYPICAL):**

Courses/Papers	C1	C2	C3	C4	C5	C6	C7	C6	C7	C8	Total
Max. Marks	100	100	100	100	100	100	100	50	25	25	800
Marks Obtained	77	74	62	76	78	72	68	38	18	17	580
% Marks Obtained	77	74	62	76	78	72	68	76	72	68	-
Grade Points Earned (G)	7.5	7.5	6.0	7.5	8.0	7.0	7.0	7.5	7.0	7.0	-
Credits for the Course (C)	3	3	3	3	3	3	3	2	1	1	25
Credit Points, CP (G x C)	22.5	22.5	18.0	22.5	24.0	21.0	21.0	15.0	7.0	7.0	180.5

Semester Aggregate Marks:	$580 / 800 = 72.5\%$
Classification of Result:	First Class Distinction
SGPA = Total CP / Total Credits:	$180.5 / 25 = 7.22$
Semester Alpha Sign Grade:	A

Calculation of Cumulative Grade Point Average (CGPA):

The Cumulative Grade Point Average (CGPA) at the end of the second, fourth, sixth, eighth and tenth semesters shall be calculated as the weighted average of the semester grade point averages (SGPA) of two, four, six, eight and ten semesters, respectively. The CGPA is obtained by dividing the total of semester credit weightages by the maximum credits for the programme.

ILLUSTRATION I: Calculation of Cumulative Grade Point Average (CGPA) for certification:

Semester	I	II	Total
Total Marks per Semester	800	800	1400
Total Marks Secured	580	641	1221
Semester Alpha Sign Grade	A	A+	-
Semester GPA	7.22	8.02	-
Semester Credits (C)	25	25	48
Semester Credit Points (CP) (SGPA x C)	180.5	200.5	381.0

Aggregate Percentage of Marks:	$1221 / 1600 = 76.31\%$
Classification of Result:	First Class Distinction
Cumulative Grade Point Average (CGPA):	Total of Semester CP / Total Credits for the program = $381.0 / 50 = 7.62$
Semester Alpha Sign Grade:	A

ILLUSTRATION II: Calculation of Cumulative Grade Point Average (CGPA) for Certification:

Semester	I	II	III	IV	Total
Total Marks per Semester	800	800	800	800	3200
Total Marks Secured	580	641	664	684	2569
Semester Alpha Sign Grade	A	A+	A+	A+	-
Semester GPA	7.22	8.02	8.30	8.55	-
Semester Credits (C)	25	25	25	25	100
Semester Credit Points (CP) (SGPA x C)	180.5	200.5	207.5	213.8	802.3

Aggregate Percentage of Marks:	2569 / 3200 = 80.28%
Classification of Result:	First Class Exemplary
Cumulative Grade Point Average (CGPA):	Total of Semester CP / Total Credits for the program = 802.3 / 100 = 8.02
Semester Alpha Sign Grade:	A+

ILLUSTRATION III: Calculation of Cumulative Grade Point Average (CGPA) for the Bachelor Degree:

Semester	I	II	III	IV	V	VI	Total
Total Marks per Semester	800	800	800	800	600	600	4400
Total Marks Secured	580	641	664	684	490	499	3558
Semester Alpha Sign Grade	A	A+	A+	A+	A+	A+	-
Semester GPA	7.22	8.02	8.30	8.55	8.17	8.32	-
Semester Credits (C)	25	25	25	25	24	24	148
Semester Credit Points (CP) (SGPA x C)	180.5	200.5	207.5	213.8	196.1	199.7	1198.1

Aggregate Percentage of Marks:	3558 / 4400 = 80.86%
Classification of Result:	First Class Exemplary
Cumulative Grade Point Average (CGPA):	Total of Semester CP / Total Credits for the program = 1198.1 / 148 = 8.10
Semester Alpha Sign Grade:	A+

ILLUSTRATION IV: Calculation of Cumulative Grade Point Average (CGPA) for the Bachelor Degree with Honours:

Semester	I	II	III	IV	V	VI	VII	VIII	Total
Total Marks per Semester	800	800	800	800	600	600	600	600	5600
Total Marks Secured	580	641	664	684	490	499	467	506	4531
Semester Alpha Sign Grade	A	A+	A+	A+	A+	A+	A	A+	-
Semester GPA	7.22	8.02	8.30	8.55	8.17	8.32	7.78	8.43	-
Semester Credits (C)	25	25	25	25	24	24	22	22	192
Semester Credit Points (CP) (SGPA x C)	180.5	200.5	207.5	213.8	196.1	199.7	171.2	185.5	1554.8

Aggregate Percentage of Marks:	$4531 / 5600 = 80.91\%$
Classification of Result:	First Class Exemplary
Cumulative Grade Point Average (CGPA):	Total of Semester CP / Total Credits for the program = $1554.8 / 192 = 8.10$
Semester Alpha Sign Grade:	A⁺

ILLUSTRATION V: Calculation of Cumulative Grade Point Average (CGPA) for the Integrated Master's Degree:

Semester	I	II	III	IV	V	VI	VII	VIII	IX	X	Total
Total Marks per Semester	800	800	800	800	600	600	600	600	600	600	6800
Total Marks Secured	580	641	664	684	490	499	467	506	481	513	5525
Semester Alpha Sign Grade	A	A+	A+	A+	A+	A+	A	A+	A+	A+	-
Semester GPA	7.22	8.02	8.30	8.55	8.17	8.32	7.78	8.43	8.02	8.55	-
Semester Credits (C)	25	25	25	25	24	24	22	22	22	22	236
Semester Credit Points (CP) (SGPA x C)	180.5	200.5	207.5	213.8	196.1	199.7	171.2	185.5	176.4	188.1	1919.3

Aggregate Percentage of Marks:	$5525 / 6800 = 81.25\%$
Classification of Result:	First Class Exemplary
Cumulative Grade Point Average (CGPA):	Total of Semester CP / Total Credits for the program = $1919.3 / 236 = 8.13$
Semester Alpha Sign Grade:	A⁺

These are the sample illustrations of computing Semester Grade Point Averages (SGPA) and Cumulative Grade Point Averages (CGPA) and the Alpha - Sign Grades assigned.

University of Mysore

ANNEXURE -I

Programme Structure for Bachelor of Science (Basic/Hons.) (Botany & Zoology as Majors):

Sem.	Discipline Core (DSC)(Credits) (L+T+P)	Discipline Elective(DSE) /Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits)(L+T+P)		Skill Enhancement Courses (SEC)			Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)		
I	Botany C1 (4+0+2) Zoology C1 (4+0+2)	OE-1 (3+0+0)	L1-1 (2+1+0) L2-1 (2+1+0) (4 hrs each)	Environmental Studies (2+0+0) (3 hrs)	SEC-1: Digital Fluency (1+0+1)	Yoga/ Sports (0+0+1)	Health & Wellness (0+0+1) NCC/NSS/R&R(S&G)/ Cultural (0+0+1)	25
II	Botany C2 (4+0+2) Zoology C2 (4+0+2)	OE-2 (3+0+0)	L1-1 (2+1+0) L2-1 (2+1+0) (4 hrs each)	Environmental Studies (2+0+0) (3 hrs)	SEC-1: Digital Fluency (1+0+1)	Yoga/ Sports (0+0+1)	Health & Wellness (0+0+1) NCC/NSS/R&R(S&G)/ Cultural (0+0+1)	25
Exit option with Certificate (48 credits)								

Programme Structure for Bachelor of Computer Applications (Basic/Hons.)

Sem.	Discipline Core (DSC)(Credits) (L+T+P)	Discipline Elective(DSE) /Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits)(L+T+P)		Skill Enhancement Courses (SEC)			Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)		
I	CA C-1 (3+0+2) CA C-2 (3+0+2) CA C-3 (3+0+0)	OE-1 (3+0+0)	L1-1 (2+1+0) L2-1 (2+1+0) (4 hrs each)	Environmental Studies (2+0+0) (3 hrs)	SEC-1: Digital Fluency (1+0+1)	Yoga/ Sports (0+0+1)	Health & Wellness (0+0+1) NCC/NSS/R&R(S&G)/ Cultural (0+0+1)	25
II	CA C-4 (3+0+2) CA C-5 (3+0+2) CA C-6 (3+0+0)	OE-2 (3+0+0)	L1-1 (2+1+0) L2-1 (2+1+0) (4 hrs each)	Environmental Studies (2+0+0) (3 hrs)	SEC-1: Digital Fluency (1+0+1)	Yoga/ Sports (0+0+1)	Health & Wellness (0+0+1) NCC/NSS/R&R(S&G)/ Cultural (0+0+1)	25
Exit option with Certificate (48 credits)								

Programme Structure for Bachelor of Business Administration, B.B.A. (Basic/Hons.):

Sem.	Discipline Core (DSC)(Credits) (L+T+P)	Discipline Elective(DSE) /Open Elective (OE) (Credits) (L+T+P)	Ability Enhancement Compulsory Courses (AECC), Languages (Credits)(L+T+P)		Skill Enhancement Courses (SEC)			Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) (L+T+P)		
I	BBA C1 (4+0+0) BBA C2 (4+0+0) BBA C3 (4+0+0)	OE-1 (3+0+0)	L1-1 (2+1+0) L2-1 (2+1+0) (4 hrs each)	Environmental Studies (2+0+0) (3 hrs)	SEC-1: Digital Fluency (1+0+1)	Yoga/ Sports (0+0+1)	Health & Wellness (0+0+1) NCC/NSS/R&R(S&G)/ Cultural (0+0+1)	25
II	BBA C4 (4+0+0) BBA C5 (4+0+0) BBA C6 (4+0+0)	OE-2 (3+0+0)	L1-1 (2+1+0) L2-1 (2+1+0) (4 hrs each)	Environmental Studies (2+0+0) (3 hrs)	SEC-1: Digital Fluency (1+0+1)	Yoga/ Sports (0+0+1)	Health & Wellness (0+0+1) NCC/NSS/R&R(S&G)/ Cultural (0+0+1)	25
Exit option with Certificate (48 credits)								

The numbers in the parentheses indicate credits allotted to various courses/papers as per definitions of Choice Based Credit System (CBCS). Generally, 1 hour of Lecture or 2 hours of practical per week in a semester is assigned one credit.

Note:

- 1) Students, who opted for Digital Fluency in first Semester, will study Environmental Studies in the second Semester and vice-versa.
- 2) Students, who opted for Yoga in first Semester, will study Sports in the second Semester and vice-versa.
- 3) Students, who opted for Health & Wellness in first Semester, will study NCC/NSS/Cultural/R&R in the second Semester and vice-versa.

Open Elective (OE) is an elective course, shall be chosen from an unrelated Discipline/Subject (other faculty) to study multidisciplinary subjects.

- 1) Students from Arts faculty shall opt for open elective from Science/Commerce faculty.
- 2) Students from Science faculty shall opt for open elective from Arts/Commerce faculty.
- 3) Students from Commerce (B. Com and B.B.A) faculty shall opt for open elective from Arts/Science faculty.

YUVARAJA COLLEGE, MYSORE

ANNEXURE -II

The following were the Subjects of study for First year B.Sc./BCA/BBA students under NEP scheme 2021-22.

PROGRAMME STRUCTURE FOR BACHELOR OF SCIENCE (BASIC/HONS.): CREDITS PATTERN (L+T+P)

Sem.	Sections	Discipline Core (DSC)	Discipline Elective (DSE) /Open Elective (OE)	Ability Enhancement Compulsory Courses (AECC): Languages		Skill Enhancement Courses (SEC)			Total Credits
						Skill based	Value based		
I	A, B, C, D, E, F, G, H	Core-1 C1 (4+0+2) Core-2 C1 (4+0+2)	OE-1 (3+0+0)	L1-1 (2+1+0) L2-1 (2+1+0) (4 hrs each)	Environmental Studies (2+0+0) (3 hrs)	-----	Yoga (0+0+1)	Health & Wellness (0+0+1)	25
	J, K, L, M, N, P, Q, R	Core-1 C1 (4+0+2) Core-2 C1 (4+0+2)	OE-1 (3+0+0)	L1-1 (2+1+0) L2-1 (2+1+0) (4 hrs each)	-----	SEC-1: Digital Fluency (1+0+1)	Sports (0+0+1)	NCC/NSS/ Cultural (0+0+1)	
II	A, B, C, D, E, F, G, H	Core-1 C2 (4+0+2) Core-2 C2 (4+0+2)	OE-2 (3+0+0)	L1-1 (2+1+0) L2-1 (2+1+0) (4 hrs ach)	-----	SEC-1: Digital Fluency (1+0+1)	Sports (0+0+1)	NCC/NSS/ Cultural (0+0+1)	25
	J, K, L, M, N, P, Q, R	Core-1 C2 (4+0+2) Core-2 C2 (4+0+2)	OE-2 (3+0+0)	L1-1 (2+1+0) L2-1 (2+1+0) (4 hrs ach)	Environmental Studies (2+0+0) (3 hrs)	-----	Yoga (0+0+1)	Health & Wellness (0+0+1)	
Exit option with Certificate (48 credits)									

The numbers in the parentheses indicate credits allotted to various courses/papers as per definitions of Choice Based Credit System (CBCS). Generally, 1 hour of Lecture or 2 hours of practical per week in a semester is assigned one credit.

PROGRAMME STRUCTURE FOR BACHELOR OF COMPUTER APPLICATIONS (BASIC/HONS.): CREDITS PATTERN (L+T+P)

Sem.	Discipline Core (DSC)	Discipline Elective(DSE) / Open Elective (OE)	Ability Enhancement Compulsory Courses (AECC), Languages		Skill Enhancement Courses (SEC)			Total Credits
					Skill based	Value based		
I	CA C-1 (3+0+2) CA C-2 (3+0+2) CA C-3 (3+0+0)	OE-1 (3+0+0)	L1-1 (2+1+0) L2-1 (2+1+0) (4 hrs each)	Environmental Studies (2+0+0) (3 hrs)		Yoga (0+0+1)	Health & Wellness (0+0+1)	26
II	CA C-4 (3+0+2) CA C-5 (3+0+2) CA C-6 (3+0+0)	OE-2 (3+0+0)	L1-2 (2+1+0) L2-2 (2+1+0) (4 hrs each)		SEC-1: Digital Fluency (1+0+1)	Sports (0+0+1)	NCC/NSS/ Cultural (0+0+1)	26
Exit option with Certificate (48 credits)								

The numbers in the parentheses indicate credits allotted to various courses/papers as per definitions of Choice Based Credit System (CBCS). Generally, 1 hour of Lecture or 2 hours of practical per week in a semester is assigned one credit.

PROGRAMME STRUCTURE FOR BACHELOR OF BUSINESS ADMINISTRATION, B.B.A. (BASIC/HONS.): CREDITS PATTERN (L+T+P)

Sem.	Discipline Core (DSC)	Discipline Elective(DSE) / Open Elective (OE)	Ability Enhancement Compulsory Courses (AECC), Languages		Skill Enhancement Courses (SEC)			Total Credits
					Skill based	Value based		
I	BBA C1 (4+0+0) BBA C2 (4+0+0) BBA C3 (4+0+0)	OE-1 (3+0+0)	L1-1 (2+1+0) L2-1 (2+1+0) (4 hrs each)		SEC-1: Digital Fluency (1+0+1)	Sports (0+0+1)	NCC/NSS/ Cultural (0+0+1)	25
II	BBA C4 (4+0+0) BBA C5 (4+0+0) BBA C6 (4+0+0)	OE-2 (3+0+0)	L1-2 (2+1+0) L2-2 (2+1+0) (4 hrs each)	Environmental Studies (2+0+0) (3 hrs)		Yoga (0+0+1)	Health & Wellness (0+0+1)	25
Exit option with Certificate (48 credits)								

The numbers in the parentheses indicate credits allotted to various courses/papers as per definitions of Choice Based Credit System (CBCS). Generally, 1 hour of Lecture or 2 hours of practical per week in a semester is assigned one credit.

BACHELOR OF SCIENCE (BASIC/HONS.): I/ II SEMESTERS SCHEME OF EXAMINATIONS**INTERNAL ASSESSMENT (C1 AND C2):**

	Theory Component			Practical Component			
	C1 Marks	C2 Marks	Total Marks	C1 Marks	C2 Marks		Total Marks
					-	Record	-
Test	10	10	20	10	10	05	25
Assignment/Report	10	10	20	-	-	-	-
Total Marks	20	20	40	10	15		25

SEMESTER END EXAMINATION (C3):

Subjects	Course/ Paper	Instruction hrs/week	Duration of Examination	Marks			Credits
				IA	Examination	Total	
2 Disciplines Core with practicals	1T	1 x 4	1 x 2	1 x 40	1 x 60	1 x 100	1 x 4
	1P	1 x 4	1 x 3	1 x 25	1 x 25	1 x 50	1 x 2
	1T	1 x 4	1 x 2	1 x 40	1 x 60	1 x 100	1 x 4
	1P	1 x 4	1 x 3	1 x 25	1 x 25	1 x 50	1 x 2
Open Elective	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
2 Languages	1 x 2T	2 x 4	2 x 2	2 x 40	2 x 60	2 x 100	2 x 3
SEC: Digital Fluency	T+P	1 + 2	1 x 2	1 x 25	1 x 25	1 x 50	1 x 2
Yoga/ Sports	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
H&W/NCC/NSS/CA	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
Env. Science	1T	1 x 3	1 x 2	1 x 20	1 x 30	1 x 50	1 x 2

BACHELOR OF COMPUTER APPLICATIONS (BCA) (BASIC/HONS.): I/ II SEMESTERS SCHEME OF EXAMINATIONS**INTERNAL ASSESSMENT (C1 AND C2):**

	Theory Component			Practical Component			
	C1 Marks	C2 Marks	Total Marks	C1 Marks	C2 Marks		Total Marks
					-	Record	-
Test	10	10	20	10	10	05	25
Assignment/Report	10	10	20	-	-	-	-
Total Marks	20	20	40	10	15		25

SEMESTER END EXAMINATION (C3):

Subjects	Course/ Paper	Instruction hrs/week	Duration of Examination	Marks			Credits
				IA	Examination	Total	
Discipline Core Courses	3T	3 x 3	2 x 2	3 x 40	3 x 60	3 x 100	3 x 3
	2P	2 x 3	2 x 3	2 x 25	2 x 25	2 x 50	2 x 2
Open Elective	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
2 Languages	2T	2 x 4	2 x 2	2 x 40	2 x 60	2 x 100	2 x 3
Yoga/ Sports	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
H&W/NCC/NSS/CA	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
Env. Science	1T	1 x 3	1 x 2	1 x 20	1 x 30	1 x 50	1 x 2
SEC: Digital Fluency	T+P	1 + 2	1 x 2	1 x 25	1 x 25	1 x 50	1 x 2

BACHELOR OF BUSINESS ADMINISTRATION (BBA) (BASIC/HONS.): I/ II SEMESTERS SCHEME OF EXAMINATIONS**INTERNAL ASSESSMENT (C1 AND C2):**

	Theory Component		
	C1 Marks	C2 Marks	Total Marks
Test	10	10	20
Assignment/Report	10	10	20
Total Marks	20	20	40

SEMESTER END EXAMINATION (C3):

Subjects	Course/ Paper	Instruction hrs/week	Duration of Examination	Marks			Credits
				IA	Examination	Total	
Discipline Core Subjects	3T	3 x 4	3 x 2	3 x 40	3 x 60	3 x 100	3 x 4
Open Elective	1T	1 x 3	1 x 2	1 x 40	1 x 60	1 x 100	1 x 3
2 Languages	2T	2 x 4	2 x 2	2 x 40	2 x 60	2 x 100	2 x 3
Yoga/ Sports	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
H&W/NCC/NSS/CA	1P	1 x 2	--	1 x 25	--	1 x 25	1 x 1
Env. Science	1T	1 x 3	1 x 2	1 x 20	1 x 30	1 x 50	1 x 2
SEC: Digital Fluency	T+P	1 + 2	1 x 2	1 x 25	1 x 25	1 x 50	1 x 2

Scheme of Examination**Semester end examination = 60 Marks;**

Duration of Examination = 2 Hours

Question paper pattern

Part A : Short Answer type questions (maximum up to 10 Marks)

(No MCQ, yes/no, fill the blanks like questions)

PART B: Long answer questions (for remaining of the 60 marks after PART A marks)

Here each of the questions may be of 4, 5, 6, 8 or 10 marks with sub-questions like a), b), c) if necessary.

Or PART B, PART C, PART D be considered (for remaining of the 60 marks after PART A marks)

Here each of the questions may be of 4, 5, 6, 8 or 10 marks with sub-questions like a), b), c) if necessary.

Practical paper = Int. Assessment 25 Marks + Semester end Exam 25 Marks = 50 Marks**Evaluation of Internal Assessment Marks***

In the 7-8 week from the commencement = C1 assessment

14-15 week = C2 assessment

Evaluation mode:

	C1 Marks	C2 Marks	Record Marks	Total Marks
Test	10	10	05	25

*No need to incorporate in the BOS proceedings, It will be presented in the general regulations framed by the UOM and College.

Semester end examination = 25 Marks

Scheme has to be prepared for 25 Marks

The candidate has to submit the duly certified record at the time of practical examination. The record is for the reference of the examiners, but not for assessment (since it is already assessed for IA)