The BA Program

PROGRAM SPECIFIC OUTCOME

The ever-rising cut-off percentages for admissions indicate that the B.A. Program is a very popular course. Students appreciate the tremendous potential of this program as it can be tailor-made to suit their interests and abilities. It gives them a broad academic orientation, allowing them to choose from various discipline, application and language courses. The wide range of options available for this program truly epitomizes the **choice-based** approach to higher education. The program has now been restructured with subjects of contemporary and topical relevance.

STRUCTURE OF BA PROGRAM

Semester I	Semester II
Language Course- IA (ENGLISH A or B)	Language Course- II A (HINDI A or B or C)
AECC(EVS/MIL)	AECC(EVS/MIL)
Discipline Course-IA	Discipline Course-IB
Discipline Course-IIA	Discipline Course-II B

* Course content subject to change as per the University guidelines.

Semester III	Semester IV
Language Course- I B(ENGLISH A or B)	Language Course- II B(HINDI A or B or C)
SEC I	SEC I
Discipline Course-IC	Discipline Course-ID
Discipline Course-IIC	Discipline Course-II D

Semester V	Semester VI
Discipline Specific Elective-I A	Discipline Specific Elective-IB
Discipline Specific Elective-II A	Discipline Specific Elective-II B
SEC-III	SEC-IV
Generic Elective-I	Generic Elective-II

Four combinations of Discipline Courses offered to students of BA Program at RLA:

1. **Computer Applications and Mathematics**

2. **Computer Applications and Economics**

3. **Mathematics and Economics**

4. **History and Political Science**

Papers of Semester I

1. Compulsory Paper, Advanced English: Stream A (Core, English)
   Details pending

2. Paper: Principles of Microeconomics – I
   Type: Core Course Economics

   Value from the paper: A beginner's course on Microeconomics. This paper helps students understand economic reports and events. The paper also helps in gaining a broad perspective and thus prepares students for competitive examinations.

3. Paper: History of India from Earliest Times up to 300 CE (Core, History)
   A history of India up to 300 AD is an overview course for B.A. program students who have chosen History as their option. In terms of time, it covers the history of India from the earliest moments of social life of our ancestors down to the emergence of Indian state as a whole in the form of the Mauryas. It also covers the issues related to sources, methods and interpretation in history writing.

4. Paper: Introduction to Political Theory (Core)
   This paper introduces the students to the idea of political theory, its history and approaches, and an assessment of its critical and contemporary trends.

5. Paper: Computer Fundamentals (Core, Computer Science)
   This course will provide with the fundamental skills and concepts required to maintain, support, and work efficiently with personal computers. This course is designed to teach the students basic concepts of computer system, Networks and Internet. It includes computer hardware, computer software, networking, security, and basic IT literacy.

6. Paper: Calculus (Core, Mathematics)

   Calculus is essential for many areas of science and engineering. Both make heavy use of mathematical functions to describe and predict physical phenomena that are subject to continuous change, and this requires the use of calculus. This course provides a comprehensive survey of differential and integral calculus concepts, including limits, derivative and integral computation, linearization, Riemann sums, the fundamental theorem of calculus, and differential equations. Content is presented in 5 units and covers various applications, including graph analysis, linear motion, average value, area, volume, and growth and decay models. In this course students use an online textbook, which supplements the instruction they receive and provides additional opportunities to practice using the content they've learned. Students will learn to use an embedded graphing calculator (**CASIO 991 ES**) and Mathematical Software **MATHEMATICA** for their Practical understanding of the topic.

7. Paper: English A (AECC, English)
   Details awaited

8. Paper: Hindi BhashaaurSampreshan (AECC, Hindi)
   'Hindi BhashaAurSampreshan' is a course of Hindi language. The aim of this paper is to enhance the work efficiency and linguistic skills of students. This course is definitely useful. Be it commercial, academic, social or political -in every sphere of life today, efficient communication is the basis of success. Its significance is progressively increasing.

Papers of Semester II

To be filled in…

Papers of Semester III

1. Advanced English Stream A (Core, English)
   Details awaited

2. Comparative Government and Politics (Core, History)
   Details awaited…62324306

3. History of India from C 1206- 1707 (Core, History)

The paper enhances the ability to understand and appreciate the social, economic and political aspects of Indian history in its designated time period. It also facilitates for students to go in career options that require a good grounding in Indian history

4. Legislative Support (Core??, Political Sciences??) 62323312

5. Principles of Macroeconomics –I (Core, Economics)
   Value from the paper: A beginner's course in Macroeconomics. It helps students to make sense of economic reports and events. It also broadens their perspective and prepares them to face competitive examinations with sound understanding of the subject.

6. Computer Networks and Internet Technologies (DSC-1C, Computer Science)
   This paper introduces the basic knowledge on Computer Networks i.e. how the computers are connected in a network, what are the different layers, how data is travelled and exchanged between two computer systems. The second part deals with introduction of creating web pages, forms using HTML, and usage of little bit of JavaScript.

7. Office Automation Tools (SEC-1, Computer Science)
   The objective of the course is to make students understand and learn various Office Automation Tools like MS Word, MS Excel & MS PowerPoint. The outcome of the course is that the students will be able to use various Office Automation Tools like MS Word, MS Excel & MS PowerPoint.

8. Analytic Geometry and Applied Algebra (Core, Mathematics)
   The subject aims to impart analytical knowledge of geometry and application of network analysis in real world problem to the students of BA (Program). The content is prescribed in three units and covers various application of conics, including graphing of conics, 2-D &3-D graphing of sphere, cylinders, mathematical modelling of Matching Job, Network reliability, Street Surveillance, Scheduling Meetings, Spelling Checker etc.

9. Latex and HTML (SEC, Mathematics)
   The Skill Enhancement Courses are skill-based and are aimed at providing hands-on-training, competencies, skills, etc. through *the tools of modern Mathematics*. One such important tool is LATEX, which is an easy-to-use version of TEX designed by Leslie Lamport. LATEX files are text files, which we can edit with simple text editors such as Notepad or Notepad++. There are dedicated editor for LATEX files.

While it is possible to create beautiful mathematical documents with other software, no other program has the ubiquity of LATEX for mathematical writing. It can be used to type assignments, research articles and books involving equations, in more convenient ways than any other available software. This course provides comprehensive information including graphic design using PS-tricks, beamer presentation formats etc. The hands-on training on LATEX will open the door for students to become freelancers. They can also associate themselves with publishing companies, as reputed publishing companies require LATEX experts. Publishers also outsource projects to freelancers.

10. Hindi A (AECC ???, Hindi)
    This Paper is offered to the students who have studied Hindi Language upto12 [th]standard. The Paper introduces the student of commerce to Hindi Prose, its different forms and famous writers like Bhartendu, Premchand, Hazari Prasad Dwivedi, Mohan Rakesh, MahadeviVerma

Papers of Semester V

1. Economic Development and Policy in India –I (Discipline Specific Elective, Economics)
   Prepares for advanced studies on Indian Economy and competitive examinations and promotes understanding of economic reports and issues.

2. Some Aspects of Society and Economy of Modern Europe: 15th -18th Century (DSE, History)
   This paper broadly covers the history about feudalism, renaissance, colonialism, modern scientific developments in the world and economic development with emergence of capitalism and industrial revolution. Students strengthen themselves with knowledge about the origin of advanced development of Europe by studying this paper.

3. Archives and Museum (SEC, History)
   Archives and Museum is a skill based paper intended to hand-hold the students into their understanding about the history, circumstances and purpose of setting up archives and museums in the modern sense of the term equipped with the case studies of several Indian museums and archives, the paper also exposes the students to the changing technological and displays related challenges in the contemporary times.

4. Administration and Public Policy: Concepts and Theory (Core, Political Science)

This paper elaborates the interface between public policy and administration in India and deals with issues of decentralization, financial management, citizens and administration and social welfare from a non-western perspective.

5. Gender education in India (GE, History)
   This paper deals with role of education in empowering women in different historical times including present day. Paper will help to understand the present low literacy rate of women as it connects with different political, economic and social-cultural conditions which hampered women's education.

6. IT Fundamentals (GE, Computer Science)
   This course will provide the fundamental skills and concepts required to maintain, support, and work efficiently with personal computers. This course is designed to teach the students basic concepts of computer system, Networks and Internet. It includes computer hardware, computer software, networking, security, and basic IT literacy.

7. Visual Programming (DSE-1B, Computer Science)
   This course introduces computer programming using the Visual BASIC programming language with object-oriented programming principles. Emphasis is on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level.

8. Data Analysis (SEC, Economics)
   This paper offers a basic course in statistics, with an emphasis on economics.

9. Differential Equations (Core, Mathematics)

   A differential equation is a <u>mathematical</u> <u>equation</u> that relates some <u>function</u> with its <u>derivatives</u>. In applications, the functions usually represent physical quantities, the derivatives represent their rates of change, and the equation defines a relationship between the two. Because such relations are extremely common, differential equations play a prominent role in many disciplines including <u>engineering</u>, <u>physics</u>, <u>economics</u>, and <u>biology</u>.

The content covered in the widest sense in four units: ordinary and partial differential equations, functional and abstract differential equations, dynamical model including predator-prey model and its analysis, competing species and its analysis, epidemic model of influenza and its analysis, battle model and its analysis, integro-differential equations etc. The topics include the study of asymptotic behavior, stability, oscillations, periodic solutions, bifurcations and applications to ecology, population, biology, and engineering sciences. The student will design and analyse the outcomes of above model and predict the result through mathematical software Mathematica/Matlab.

MATHEMATICS & ECO COMBINATION

SEM_I

AECC-ENG/MIL

Language- English A or B

Discipline Course-IA- CALCULUS

Discipline Course-IIA- Principles of Microeconomics – I

SEM_II

AECC-EVS

Language- Hindi A or B or C

Discipline Course-I B- ALGEBRA

Discipline Course-II B- Principles of Microeconomics – II

SEM_III

Language- English A or B

Discipline Course-IC- Analytic Geometry and Applied Algebra

Discipline Course-II C- Principal of Macroeconomics -1

SEC-1 - LATEX

SEM_IV

Language- Hindi A or B or C

Discipline Course-I D- Analysis
Discipline Course-II D- Principal of Macroeconomics -1I

SEC-2 - COMPUTER ALGEBRA SYSTEM

SEM_V

Discipline Specific Elective-I A- Differential Equations

Discipline Specific Elective-II A- Development and Policy in India –I

GE- CS/HISTORY

SEC-3 - R-Software

SEM_VI

Discipline Specific Elective-I B- Numerical Analysis

Discipline Specific Elective-II B

GE- CS/HISTORY

SEC-4 - Transportation and Game Theory

MATHEMATICS & CS COMBINATION

SEM_I

AECC-ENG/MIL

Language- English A or B

Discipline Course-IA- CALCULUS

Discipline Course-IIA- Computer Fundamental

SEM_II

AECC-EVS

Language- Hindi A or B or C

Discipline Course-I B- ALGEBRA

Discipline Course-II B- DBMS

SEM_III

Language- English A or B

Discipline Course-IC- Analytic Geometry and Applied Algebra

Discipline Course-II C- Computer Networks and Internet Technologies

SEC-1 - LATEX

SEM_IV

Language- Hindi A or B or C

Discipline Course-I D- Analysis
Discipline Course-II D-

SEC-2 - COMPUTER ALGEBRA SYSTEM

SEM_V

Discipline Specific Elective-I A- Differential Equations

Discipline Specific Elective-II A- Visual Programming

GE- ECO/HISTORY

SEC-3 - R-Software

SEM_VI

Discipline Specific Elective-I B- Numerical Analysis

Discipline Specific Elective-II B

GE- ECO/HISTORY

SEC-4 - Transportation and Game Theory