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Undergraduate Program

Bachelor of Computer Applications (BCA)

Bachelor of Computer Applications (BCA) is an undergraduate academic degree program that is focused on providing students with a strong foundation in computer science and applications. The program is designed to provide students with a comprehensive understanding of computer science, software development, and computer applications.

Program Outline

*Bachelor of
Computer
Applications
(BCA)*

The duration of the BCA program is three years, and it is divided into six semesters. The course curriculum of BCA includes subjects such as computer programming, data structures, algorithms, software engineering, computer networks, database management systems, web development, and computer graphics.

The program also includes practical sessions, lab assignments, and project work to provide hands-on experience to the students. The objective of the BCA program is to prepare students for a career in the field of computer science and technology.

After completing the BCA program, students can pursue higher education in the field of computer science or technology, or they can start their career as a software developer, web developer, database administrator, or IT consultant.

Duration: 3
Years (6
Semesters)
Affiliation: PES
University
Approval Body:
UGC

Social Info



Admiss
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KEY DIFFERENTIATORS OF THIS PROGRAM

PESU's BCA program with specializations in System Administration, Application Design, and Software Testing has several key differentiators, including:

- ◎ **Specializations:** The program offers specializations in three different areas, giving students the opportunity to focus their studies and develop in-depth expertise in a particular area of interest. This can help students to stand out in the job market and pursue specialized career paths.
- ◎ **Skill Enhancement Electives:** PESU's BCA program offers skill enhancement electives that allow students to explore interdisciplinary areas like digital marketing and cyber law. This provides students with overall education that combines technical skills with knowledge of other fields, making them better prepared for the complexities of the modern workplace.
- ◎ **Placement Training with Mock-up's:** PESU offers placement training with mock-up's, which can help students to develop their interview skills, build confidence, and prepare for job interviews. This can be particularly helpful for students who may not have prior experience with job interviews or who are nervous about the process.
- ◎ **Industry-Relevant Curriculum:** PESU's BCA program is designed to be industry-relevant, with a curriculum that is regularly updated to reflect current trends and best practices in the field. This ensures that students are learning the most up-to-date and relevant skills, which can increase their chances of finding a job after graduation.
- ◎ **Practical Focus:** The program has a practical focus, with a strong emphasis on hands-on learning and real-world applications. This can help students to develop practical skills that they can apply immediately in the workplace, which can make them more valuable to potential employers.
- ◎ Overall, PESU's BCA program with specializations in System Administration, Application Design, and Software Testing offers a comprehensive and practical education that can help students to succeed in the competitive world of information technology.

PROGRAM DESIGN

Course	Perc enta ge	Cr ed its	Distri butio n
Preliminary	6.67	8	3% – 6%
Foundation	37.5 0	45	30% – 40%
Core	32.5 0	39	30% – 40%
Elective	13.3 3	16	10% – 20%
Project Work / Self Study	10.0 0	12	6% – 12%
Total	100. 00	12 0	120 (C)

**Help us with your details and
we shall connect with you!**

 Name *

 Email *

 City *

 +91 ▾ Mobile Number *

Press Submit after OTP verification

WHO SHOULD PURSUE THIS PROGRAM?

Bachelor of Computer Applications (BCA) is a popular undergraduate program that is designed to provide students with a strong foundation in computer science and applications. It is an ideal program for students who are interested in pursuing a career in the field of computer science and technology.



BCA is suitable for students who:

- ◎ Have a keen interest in computer science and technology.
- ◎ Have a good understanding of mathematics and logical reasoning.
- ◎ Have excellent analytical and problem-solving skills.
- ◎ Are passionate about programming and software development.
- ◎ Are interested in learning about database management, networking, and web

development.

In general, BCA is a suitable program for students who wish to pursue a career in the field of software development, computer programming, database management, web development, and other related fields without the additional emphasis on Physics, Chemistry as in B.Tech. Additionally, students who wish to pursue higher education in computer science or technology can also benefit from

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System Administration	Linux Administration	
	Database Administration	
	Network Administration	
Application Design	Computer Graphics	
	2D/ 3D Animation	

- ⦿ Computer Networks: Learn about computer networks and network security.
- ⦿ Operating Systems: Study operating systems and learn how they function.
- ⦿ Mathematics: Learn mathematical concepts such as linear algebra, calculus, and statistics.
- ⦿ Business Management: Trained in business management concepts such as accounting, finance, and marketing.



EXTRA-CURRICULAR/ CO-CURRICULAR ACTIVITIES

- ⦿ Inter and Intra college Hackathons.
- ⦿ Inter and intra college Ideathons
- ⦿ Research
- ⦿ Studythons
- ⦿ Hands-on skill building workshops
- ⦿ Seminars and

Gaming (AR)	
Software Testing	Debugging and Testing
	Automation Testing
	Robotic Process Automation

***Note:** All students may have specialization in any of the above streams by choosing 3 courses offered in each specialization stream.

Skill Enhancement Electives	Human Computer Interaction
	Web Content Management
	E-Commerce Application Development (Shopify)
	Accounting and Financial Management

Conferences

Presentations

- ◎ Cultural Events and Fests

MOOC's as a part of the program and many more...

Data Visualization

PEDAGOGY METHOD —

An overview of the methods and techniques used to disseminate knowledge among our BCA students are as follows...



- ◎ **Lectures:** The traditional lecture format is often used to deliver course material, provide context, and introduce new topics.

Lectures are also supplemented with multimedia resources, such as videos and slides.

- ◎ **Practical Classes Through Labs:**

Labs that provide hands-on experience with computer programming, software development, and database management. These practical

CURRICULUM STRUCTURE

+ SEMESTER 1

+ SEMESTER 2

+ SEMESTER 3

+ SEMESTER 4

+ SEMESTER 5

+ SEMESTER 6

Note: All students may have specialization in any of the streams by choosing 3 courses out of 4 courses offered in each specialization stream

classes are designed to help our students apply what they have learned in theory.

- ◎ **Projects:** Projects which are both individual and group projects. This approach allows students to apply their learning to real-world problems and gain experience working on complex software development projects.
- ◎ **Group Discussions:** This facilitates peer-to-peer learning amongst our students and foster collaborative problem-solving.
- ◎ **Online Learning Through PESU Academy:** Online learning through our in-house build ERP system – PESU Academy, is encouraged amongst our students. PESU Academy consists of full stack of professionally prepared videos, PPT slides, notes, question bank, reference materials etc...This approach provides greater flexibility for our students to learn at their own pace and access course material at any time.

+

ELECTIVE I

+

ELECTIVE II

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ELECTIVE III

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ELECTIVE IV

FUTURE CAREER PROSPECTS AFTER COMPLETING THE PROGRAM

There are diverse career options for Graduates in Computer Applications. Some of them are as listed below...

- ◎ **Full Stack Developer:** A lot of students have a great opportunity in shaping their career as Full-Stack Developer. The opportunities are available in both Service and Product based companies. Currently the technology stack used in such profiles are MEAN and MERN Stack.
- ◎ **Web Design & Development:** A lot of Web-Development companies hire Computer Applications students for designing Websites for E-commerce, Finance, Hospitality, Transportation, and various other domains.
- ◎ **Network Management:** Companies relying on network infrastructure also hire freshers and train them in Infrastructure Management. They are trained on SNMP tools to constantly monitor the critical network components. They also work on automation of various networking operations
- ◎ **CRM & ERP:** A good number of students are absorbed by companies building CRM and ERP applications. They train the freshers on SAP technologies, Oracle, or proprietary software.
- ◎ **Network Security:** A few organizations provide opportunities for freshers to work on identifying vulnerabilities in their system and identify security measures. A new dimension is now open in Blockchain technology.
- ◎ **IoT and Data Science:** Abundant scope is open for Graduate freshers who have hands-on Internet of Things to work on various Industrial projects, Security, Home Automation etc. The huge amount of data collected is also further considered for Data Analytics and Data Science projects. Most of these projects also demand skills of Cloud Computing.
- ◎ **Mobile App and UI / UX:**

which otherwise is time consuming.

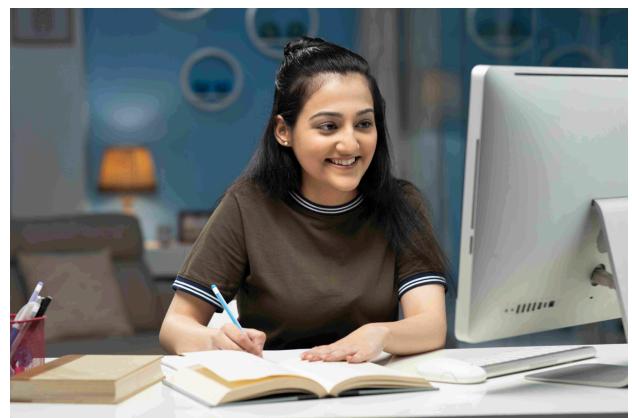
- ◎ **Software Testing:** Computer Applications students are also in demand for Software testing both for manual and automated divisions. The students are exposed to Testing tools like Java Script, Selenium etc.

Graduates are also preferred in developing Mobile Applications, front-end design - User Interface / User Experience, in customizing the first-hand experience of customers/users in handling any user interface. Companies building Android / IOS apps for Games, AR/VR applications etc prefer freshers in this domain as well.

PES UNIVERSITY PROVIDES PLACEMENT ASSISTANCE IN VARIOUS FORMATS/ EVENTS

Placement Orientation: An orientation is organised by the University and at the Department level to make the students aware of the Placement policies. The policies are framed such that every student gets fair opportunity in making their career.

Pre-Placement Training: The University has a unique campus-wide program called Pre-Placement Training, a unit of PESU I/O. A team of final year students conduct a series of tests, both aptitude and technical



Industry Interactions: Students are taken to various technology summits to understand the industry potentials and its future trends.

twice a week.

Alumni Interaction: The Department organizes Alumni interactions with the students to assist them in preparing for Placements right from Resume writing to facing interviews.

Invited Guest Lectures: Sessions are conducted by inviting industrial trainers to help the freshers crack the aptitude tests.

Placement Coordinator: There is a dedicated coordinator who deal with the Placement Activities at the departmental level to assist the students in getting more exposure to the industry expectations and real-world applications.

PLACEMENT OPPORTUNITIES & CAREER ASSISTANCE

The number of companies that visit our campus to hire Graduates of Computer Applications cross the century mark. A bunch of new companies get enrolled in to list of companies visiting the campus year on year. Some of the prominent companies that hire our students are:





accenture



Deloitte.



Rakuten

J.P.Morgan

DRONGO AI

EPSILON'

Vymo

BOSCH

Infosys®



ivanti



Morgan Stanley



Info Session

We hold regular events aimed at providing information to parents and prospective students.

Interested in becoming an PESU student?

You can apply through PESSAT.

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