B.Sc. /BCA
Cyber Forensic, Data Analytics & Cyber Security with IBM

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NAAC A GRADE

NABH ACCREDITED HOSPITAL

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AHA CERTIFIED TRAINING CENTRE

25% SCHOLARSHIP IN YEARLY TUITION FEES FOR STUDENTS WHO SCORE ABOVE 90% IN PUC

RABBI ZIDNI 'ILMA

YENEPOYA UNIVERSITY
(Deemed to be University)

University Road, Deralakatte,
Mangalore, Karnataka 575018
www.yenepoya.edu.in

Recognized under sec 3(A) of the UGC Act 1956 | Accredited by NAAC with 'A' Grade

Job placement support from the University and IBM

All the passed out candidate's name will be listed in the IBM website

Secure this degree from NAAC 'A' Grade Accredited University and IBM which will ensure your jobs in Abroad and MNC'S.

Career options include:

» **Ethical Hacker**

» **Network and Security Specialist**

» **IT Security and Risk Analyst/Consultant**

» **Cyber Security Analyst**

» **Cyber Forensic Investigator**

Roles can be within forensic and security teams, legal practices or the police and related organisations.

» What B.Sc. Cyber Security and Forensic is all about?

The global economy is increasingly dependent on a secure digital environment that protects its users. Are you interested in using your analytical, technical and creative problem solving skills to fight against cyber-crime and help to secure our digital age?

In this degree, you'll gain a solid foundation of the theoretical and practical aspects of different dimensions of cyber security, such as network security, software security, system security measures and models, information security, computer forensics, penetration testing and vulnerability assessment.

You'll learn how forensically to examine digital evidence, identify and respond to threats and information security incidents, and develop the digital forensic and critical thinking skills to solve computer crime.

≫ Your future career in B.Sc. Cyber Security and Forensic?

Graduating with a major Cyber Security and Forensic will equip you with the skills you need for professional IT roles aimed at securing our digital future.

≫ Career Prospects and scope of Data Analytics in India?

It has been estimated that data is expected to grow up to 50 times by 2020. Organizations have to stay updated with the demands of massive volumes of data so that they do not become obsolete. Hence, professionals who are well-versed with advanced analytics are considered to be essential for organizations to adapt their business models and stay ahead of the competition.

The scope of data analytics in India includes organizations in banking, policing, fraud detection, healthcare, telecommunications, e-commerce, energy and risk management.

Based on the remarkable findings from this year's Analytics and Data Science, Jobs study, by Analytics India Mag here are the top trends in the scope of data analytics in India:

There are about 78,000 job openings for data analyst available in India.
JPMorgan, Accenture, Microsoft, Adobe, Flipkart, AIG, Ernst & Young, Wipro, Vodafone & Deloitte are the organizations that had the greatest number of openings for data analyst last year.

Bengaluru is home to 27% of analytics jobs in India.

Career Opportunity in Cyber Security

Are you a tech-pro and look forward to something exciting every day in your job? If yes, then this is a great time to consider a new career opportunity, the cyber security professional. According to CIO magazine, the cyber security experts are among the most sought after professionals in the technical sector; with demand for workers in that field out spacing other IT jobs by a good margin

In today's world, there is a high demand for cyber security professionals. It is estimated that the demand of a cyber-security professional is supposed to cross 6 million globally by 2019. This industry has too many reasons to choose it as a profession some of

Top Jobs in Market	In Diverse Industries like
• Network Security Analyst	• E commerce
• Security Analyst	• Medical Healthcare
• Information Security Analyst	• Banking Finance
• Information Technology Security	• Energy & Utilities
• Information Security Manager	• Government bodies and Associations
• Senior IT Auditor	• Manufacturing
• Security Administrator	• Wholesale & Retail Trading
• Security Architect	• IT and Software
• Security software Developer	• Telecommunications, Mobile & Media
• Cryptographer/ cryptologist	
• Cryptanalyst	
• Chief information Security officer	
• Security consultant/ specialist	
• Analyst	
• Information Assurance Analyst	

Biggest Ransomware attack in history

The attack began on Friday, 12 may 2017, and within a day was reported to have infected more than 23,000 computers in over 150 countries.

• According to forbes magazine, the cyber security job market is expected to grow to more than $170 billion in just four years, making it not only one of the fastest growing employment segments in IT, but one that also comes with six-figure salaries, security and plenty of room for upward.

Last Year, U.S. News & Report
Ranked cyber security eighth on a list of the 100 best jobs.

Cyber crime damage costs to hit $6 trillion annually by 2021.
The ponemon institute reported that the average cost of cyber breach has reached $3.8 million.

Cyber security spending to exceed $1 trillion from 2017 to 2021.
The rising tide of cyber crime has pushed cyber security spending on products and services to more than $80 billion in 2016, according to gartner.
Unfilled cyber security jobs will reach 1.5 million by 2019-2020.
This year, analysts and the media concluded there is a severe shortage of cyber security talent globally. There were 1 million cyber security job openings in 2016, and that is expected to reach human attack surface to reach 4 billion people by 2020.

As the world goes digital, humans have moved ahead of machines as the top target for cyber criminals. Microsoft estimates that by 2020, 4 billion people will be online twice the number that are online now. The hackers smell blood now, not silicon.
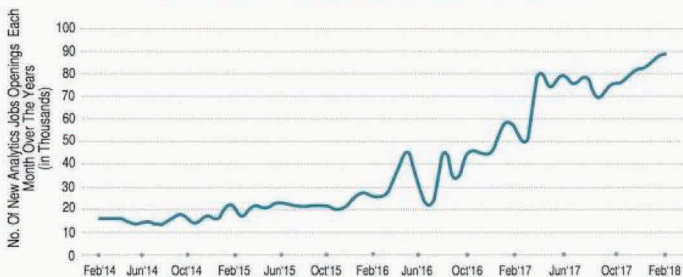
Up to 200 billion IoT devices will need securing by 2020.

Intel claims that the number of connected devices could surge to 200 billion by 2020, up from 15 billion in 2015. Cisco and microsoft have both predicted 50 billion devices will be connected to the internet by 2020. Regardless of which estimate proves right, the bottom line is that the digital attack surface will grow massively over the next five years.

" CISCO REPORTED THAT CURRENTLY MORE THAN 1,000,000 AVAILABLE CYBER SECURITY JOBS IN THE U.S ALONE AND 6,000,000 GLOBALLY "

GRAPH: **NEW ANALYTICS JOBS ADVERTISED PER MONTH**

Size of the cybersecurity market worldwide, from 2017 to 2023

(in billion U.S. dollars)

	Market in billion U.S. dollars
2023*	248.26
2022*	223.68
2021*	202.97
2020*	184.19
2019*	167.14
2018*	151.67
2017	137.63

The Advantages of
Securing Your **Degree**
at Yenepoya University

01 **Is Yenepoya University NAAC accredited?**
Yes. Yenepoya University is accredited by NAAC with 'A' Grade.

National Assessment & Accreditation Council

02 **What is the benefit of studying in NAAC 'A' Grade Accredited Institute?**
The National Assessment and Accreditation Council (NAAC) is an organisation that assesses and accredits higher education Institutions (HEIs) in India. It is an autonomous body funded by University Grants Commission of Government of India.

Many companies visiting different campuses in India prefer to hire students studying in higher NAAC accredited colleges with 'A' grades. This increases the student's chance to be hired by different companies increasing the diversity of career opportunities available to students on campus. This same grading system is considered by international universities when they consider the applicants from India.

Many companies, as part of their campus recruiting programs, only look at 'A' graded colleges. An accreditation, consequently, increases the number of companies coming on campus. While applying abroad, colleges often look at the grading of your college to gain a better understanding of your performance as a student relative to your peer group. The higher the accreditation, the better it increases your chances for a favourable reply.

03 **Does your college have add-on programs?**
Yes. One or two add-on courses are possible with the degree program. Two add-on programs along with the degree is an exclusive feature of Yenepoya.

04 **Is add-on program a diploma or a Degree?**
It is a degree Program. For instance, B.Sc. / BCA along with Cyber Forensic, Data Analytics and Cyber security is a combined certified degree program. This is also an exclusive feature.

04 **What is the benefit of two add-on courses with degree program?**

Employability and placement is possible in various field. Add-on courses are beneficial as it gives vocational education and certificate also. Rather doing simple degree, students prefer opting for add-on courses along with it. Along with three years of bachelor's degree, students complete their add-on courses as well, and it gives weightage to their degree too.

05 **Are your courses associated with Multinational Companies?**

Yes, it is. IBM, Microsoft, Red Hat, Cambridge Business English, Safe Express are the multinational companies that are associated with Yenepoya.

06 **Are the above listed companies giving classes in the campus?**

Yes, IBM, Microsoft, Cambridge Business English, Safe express is giving classes in the campus.

07 **What is the benefit of "Cambridge business English certificate" along with the degree certificates?**

BEC (Business English Communication) provide students work focused with English language skills.

Business certification which is accepted for business studies programs in abroad and jobs in MNC's.

BEC Exam is produced by Cambridge English. The Test Includes 3 levels BEC preliminary, BEC Vantage and BEC higher. This exam gives students lots of confidence. The exams are accepted by universities, business schools and multinational corporations both in India and Abroad.

So the Yenepoya Institute is providing free BEC Training in the campus with the IRS Group.

BEC
THREE LEVELS OF CAMBRIDGE BUSINESS ENGLISH CERTIFICATION

08 **What is the Credit Score of the Degree Program?**

Compared to other Universities and Colleges the total credits of each courses are between 120 and 140 which is the highest offered. All courses are designed on the basis of Choice Based Credit System (CBCS). Each course of study will have core and elective subjects, which allows students to choose an area of interest. SWAYAM courses are encouraged. CBCS allows students to choose inter-disciplinary, intra-disciplinary courses, skill oriented papers (even from other disciplines according to their learning needs, interests and aptitude) and more flexibility for students.

09 **What is a choice based credit system (CBCS)? What are its advantages?**

University Grants Commission has come up with the Choice Based Credit System (CBCS) programme in which the students have a choice to choose from the prescribed courses, which are referred as core, elective or minor or soft skill courses and they can learn at their own pace and the entire assessment is graded-based on a credit system. The basic idea is to look into the needs of the students as to keep up-to-date with development of higher education in India and Abroad. CBCS allows students an easy mode of mobility to various educational institutions spread across the world along with the facility of transfer of credits earned by students.

10 **Advantages of Choice Based Credit System:**

- The students have more scope to enhance their skills and more scope of taking up projects and assignments, vocational training, including entrepreneurship.

- The system improves the job opportunities of students.

- The system will help in enabling potential employers assess the performance of students on a scientific scale.

- The CBCS offers a 'cafeteria' approach in which the students can choose courses of their own choice.

- The credit system allows a student to study what he/she prefers in his/her own sequence as per his/her interests.

- They can opt for additional courses and can achieve more than the required credits.

- Inter college/university migration within the country and outside becomes easy with the transfer of Credits. This means that it will be easier for foreign universities to come and offer courses in India.

11 **Is your lab and Skill training centres NABL and AHA Certified?**
Yes, our lab is accredited by NABL and AHA. Laboratory accreditation activities are administered under the direction of the National Accreditation Board for Testing and Calibration Laboratories (NABL), involving Assessment Team and Accreditation Committee as recommending bodies.

12 **How are the classes conducted for the students?**
Digitalised learning and teaching are encouraged. The learning resources are available at "The Yenepoya" (Deemed to be University) digital platform titled YENGAGE. This enhances reinforcement of classroom teaching that is accessible at home and anywhere in the country. Each student is assigned to a mentor. The mentor will help to resolve and overcome academic and personal challenges.

Teaching and learning will be addressed to overcome the uncertainty of COVID- 19 pandemic through online and offline classes.Dynamic methods of engaging students in activities that help to develop their personalities and professionalism is a part of the academic structure.

13 **What are the skills provided to the students?**
Throughout the time of study, professional communication and grooming will be held through training from experts and specialists. Human values and life skills are also provided.

14 **Features of YENEPOYA UNIVERSITY**

- Established in 1991.
- Yenepoya University shared 3rd place among Indian University in the Times Higher Education impact rankings from India.
- Well-furnished Air conditioned class rooms & seminar Hall.
- Dual specialisation degree.
- Advanced syllabus.
- Placement associated with Multinational Companies.
- Soft skill training.
- 10000 student's admission.
- 150 Acres of Green campus.
- 5000 faculty and staff on Rolls.
- International Standard Soccer ground and Hostel.
- Keeping pace with the needs of modern education system.
- State of art, central kitchen (Food Craft) and Laundry.
- Common wealth grade indoor sports complex and Gymnasium.
- Best NSS unit of the state and best programme officer.
- Environment award winner of Karnataka.
- Ragging free campus.
- Substance free campus

First Deemed to be University in Dakshina Kannada	NAAC A Grade	Largest Simulation Lab in India	150 Acres of Green campus
First Anatomage Table in the Country	NABH Accredited Medical College Hospital	5000 Faculty & Staff on Rolls	10000 Student Admissions
Commonwealth grade Indoor sports complex and Gymnasium	International Standard Soccer Ground and Hostels	State of the Art, Central kitchen (Food Craft) and Laundry	First Robotic Surgery Facility in South Karnataka
First Robotic Kidney Transplantation Facility in the Region	Environment award winner for Karnataka	NABL Accredited Lab	AHA Certified Skills Training Centre
Ranked in 95th by NIRF-2019 by MHRD Government of India	4th in K-SURF-2019	University with Private Football Club (Registered under ALL INDIA FOOTBALL FEDERATION) FC Mangalore	University with Health Care Incubation Centre with facilities for Rapid Prototyping, 3D Printing, Medtech Design and development
University with state of the Art Research and Innovation Centre with GLP Certification and ISO 17025	Advanced Surgical Skill Enhacement Division (ASSEND) a Unique Centre for training in Robotics Surgery using cadaver and Animals in association with Da Vinci USA (first time in the country).	Best NSS unit of the state and best programme officer	

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DEGREE @ YENEPOYA UNIVERSITY