

**HKBK**  
College of Engineering  
Approved by AICTE & Affiliated to VTU

<http://hkbk.edu.in/>

**2015 - 16**



**PROSPECTUS**



## **C.M. Ibrahim**

### **Founder Chairman**

“The Future of our country depends on outlook and behaviour of our students. The graduates emerging from the portals of an educational institution should possess at least minimal moral values. A college is a platform to be model acceptable by the society. They should not only excel in subject matter, they should develop their traits and add value to life and should become a role model!”



## **C.M. Faiz Mohammed**

### **Director**

At HKBK college of engineering, our vision is based on hard work, dedication, discipline and determination with a strong emphasis on teamwork & shouldering high level of responsibility. This culture allows out students not only adopt themselves to the present day challenge but also accept individual responsibility to the family, society and nation.

The institute has set specific objectives and activity plans for achieving excellence in all areas of quality technical education. We strongly believe in achieving academic excellence through high standards in teaching, career guidance and moulding team players. At HKBK college of Engineering, we emphasise on creating technical competence and readily employable technocrats and managers for the corporate organizations.

The testimony is that the institution has emerged as a one stop destination for meeting the technical man power need of corporate of repute and the country's prestigious defense forces.



## **Dr. Chaitanya Kumar**

### **Principal**

“Every Student has hidden traits and in most of the cases it will be in a dormant state. It is the responsibility of the college to create an atmosphere wherein the students realizes their potential and exploit it to achieve excellence. It is here that we provide opportunities to develop technical skills and help students to achieve desired level of competencies, apart from their scholastic achievements and add new dimensions of substantive impact on their future career”



WELCOME TO THE  
WORLD OF TOMORROW





HKBK College of Engineering, the most sought-after institution for technical education is located at Nagawara, about 7km from the heart of the Bangalore city. Acclaimed as one of the best-equipped institutions in the country. HKBKCE offers a range of degree courses in engineering for the young minds who desire to achieve technical knowledge, industry insights and soft skills. The institution has the curriculum as required by the University which includes well equipped labs, spacious classrooms, extensive library and separate hostel for boys and girls.

Our focus is to provide the best possible education that translates into a lifetime of learning. Each student is neither a face in the crowd nor a passive learner, individuality is recognized and groomed. We completely understand the purpose of providing quality education. At HKBKCE, this challenge is supported by a highly personalized approach to your education, your goals, your dreams and your needs take on new meaning and each one of us will be there to support you.

HKBKCE provides effective learning opportunities through its well qualified and committed staff. The conducive teaching and resources are enhanced by frequently upgrading our facilities towards a wider range of learning resources. The programs are designed to prepare students for an increasingly competitive job market. Besides, high-interaction with the relevant industries at all levels to ensure our graduates acquire skills for a great career and a successful life. These factors assure every HKBKCE graduate not only a degree but also an impressive resume.

### **HISTORY**

HKBK College of Engineering was established in 1997 under the aegis of Karnataka State Muslim Federation (KSMF) by Mr. C.M. Ibrahim a Former Union Minister (Ministry of civil aviation) & President KSMF.

### **CAMPUS PROFILE**

Campus Area : 14 Acres existing  
Instructional Space : 2 Lakh + Square Feet  
Observed Holiday : As per Government/University Notification

## UG Programs

# Bachelor of Engineering

- Computer Science & Engineering
- Information Science & Engineering
- Electronics & Communication Engineering
- Mechanical Engineering
- Electrical & Electronics Engineering
- Civil Engineering

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Course Duration : 4 Years/8 Semesters

Eligibility : PUC-45% aggregate

Subjects : Physics, Mathematics, Chemistry/Biology or its Equivalent course with English as one of the subject.

The candidate should have cleared K-CET/CET/KRLM/COMED-K/AIEEE Test.

## PG Programs

# Master of Technology

- Computer Science & Engineering
- Electronics
- Machine Design\*

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Course Duration : 2 Years/4 Semesters

Eligibility : Admission to the Master of Technology Course shall be open to all the candidates who have passed B.E. / B.Tech. Examinations (in relevant field) of VTU or any other University/ institution or any other examination recognised as equivalent thereto.

The candidate should have cleared GATE or PG CET.

- MBA- Masters of Business Administration (VTU)
- MB A- Masters of Business Administration (BU)

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Course Duration : 2 Years/4 Semesters

Eligibility : Bachelor's Degree in any discipline with an aggregate of 50% inclusive of languages.

The candidate should have cleared K-Mat/COMED-K/Mat/CAT/PGCET Test.

## Research Programs

ECE, ME, EEE, MBA,  
CSE\*, ISE\*, Physics\*, Mathematics\*





# COMPUTER SCIENCE & ENGINEERING

The Department of Computer Science and Engineering at HKBK College of Engineering (HKIBKCE) is recognized for its facilities and eminent faculty. The department works towards empowering students for professional and personal excellence. It has created a vibrant knowledge based environment which motivates students to explore new ideas and excel in academics.

The Department boasts of lab facilities that any student of this field might require. The well networked labs include internet facilities, the best computing hardware and peripherals and the latest software available in the market. The department regularly invites eminent personalities of various industries to conduct seminars and lectures. This helps students gain a better understanding of the current situation of the industry as well as gain information on varied topics ranging from latest trends to developments in the automation field.

The department also provides EDUSAT facility for students to keep abreast to the latest technologies via live sessions. With the best infrastructure available, the department motivates its students to think of innovative and unending possibilities in the field of Computer Science and transform these ideas into technological requirements of the industry. The department is committed to preparing graduates who are capable of contributing to development of computing technology.



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## Laboratories

Basic Computer/ Network Programming laboratory  
Data Structure/ Object oriented Programming lab  
Microprocessor laboratory  
Algorithms/Shell Script Computer Design laboratory  
Web Programming/Project laboratory  
Data Base Management System/  
Computer Graphics and Visual Programming laboratory

## COMPUTER SCIENCE SYLLABUS

Engineering Maths-I  
Engineering Physics  
Elements of Civil Engg. & Mechanics  
Elements of Mechanical Engg.  
Basic Electrical Engg.  
Workshop Practice  
Engg. Physics Lab  
Constitution of India, Professional Ethics and  
Human Rights (CPH)  
Language (Kan.)  
Engineering Maths-II  
Engineering Physics  
Elements of Mechanical Engg.  
Basic Electrical Engg.  
Workshop Practice  
Engg. Physics Lab  
Constitution of India, Professional Ethics and  
Human Rights  
Language (Kan.)  
Engineering Maths-I  
Engineering Chemistry  
Programming in C & Data Structures  
Computer Aided Engineering Drawing  
Basic Electronics  
Computer Programming Lab  
Engg. Chemistry Lab  
Environmental Studies  
Language (Eng.)  
Engineering Maths-II  
Engineering Chemistry  
Programming in C & Data Structures  
Computer Aided Engineering Drawing  
Basic Electronics  
Computer Programming Lab  
Engg. Chemistry Lab  
Environmental Studies  
Language (Eng.)  
Engineering Mathematics – III  
Analog and Digital Electronics  
Data Structures and Applications  
Computer Organization  
Unix and Shell Programming  
Discrete Mathematical Structures  
Analog and Digital Electronics Laboratory  
Data Structures Laboratory  
Kannada/Constitution of India, Professional Ethics  
and Human Rights  
Engineering Mathematics - IV  
Object Oriented Concepts  
Design and Analysis of Algorithms  
Microprocessors and Microcontrollers  
Software Engineering  
Data Communication  
Design and Analysis of Algorithm Laboratory  
Microprocessors Laboratory  
Software Engineering  
Systems Software  
Operating Systems  
Database Management Systems  
Computer Networks - I  
Formal Languages and Automata  
Theory  
Database Applications Laboratory  
Systems Software & Operating  
Systems Laboratory  
Management and Entrepreneurship  
Unix System Programming  
Compiler Design

Computer Networks - II  
Computer Graphics and Visualization  
Elective I (Group-A)  
Computer Graphics and Visualization  
Laboratory  
Unix System Programming and Compiler  
Design Laboratory  
Operations Research  
Signals and Systems  
Data Compression  
Pattern Recognition  
Stochastic Models and Applications  
Programming Languages  
Object-Oriented Modeling and  
Design  
Embedded Computing Systems

Programming the Web  
Advanced Computer Architectures  
Elective II (Group-B)  
Elective III(Group-C)  
Networks Laboratory  
Web Programming Laboratory  
Advanced DBMS  
Digital Signal Processing  
Java and J2EE  
Multimedia Computing  
Data Warehousing and Data  
Neural Networks  
Advanced DBMS  
Digital Signal Processing  
Java and J2EE  
Multimedia Computing  
Data Warehousing and Data  
Neural Networks  
Software Architectures  
System Modeling and Simulation  
Elective IV(Group-D)  
Elective V(Group-E)  
Project Work  
Seminar  
Wireless Networks and Mobile Computing  
Web 2.0 and Rich Internet Applications  
VLSI Design and Algorithms  
Network Management Systems  
Information and Network Security  
Microcontroller-Based Systems  
Ad-hoc Networks  
Software Testing  
ARM Based System Design  
Services Oriented Architecture  
Clouds, Grids and Clusters  
Multi-core Architecture and



# INFORMATION SCIENCE & ENGINEERING



The lifestyle changes every day. These changes are one or other way made by the IT professionals. The Information Science and Engineering branch is thriving to provide such changes to make the life much easier today than yesterday. The faculty members of this department work together to achieve this goal to become reality. ISE department has got dedicated, motivated faculty members to produce their best efforts be transferred to the students. The knowledge and talent transformation process should be effective in this competitive world. The department achieve this goal through the faculty. Students are monitored and provided special training till the placements.



Faculty members closely monitor the progress of students and provides them additional coaching whenever required. One-to-one project guidance is provided to students by the faculty and continuous guidance is given to the students till the completion of the project. Apart from academics, students have been trained on soft skills to face the changing requirement of Industry. Experts from the industry are called to conduct various programs. Department conducts regular seminars and workshops in association with the industry to equip the students with practical insight into the corporate world and help the students to incorporate these technologies in their specialization.

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## Laboratories

- Project Lab
- Programming Lab
- Web Programming Lab
- Database Application Lab
- Network Lab
- Microprocessor Lab



# INFORMATION SCIENCE SYLLABUS

Engineering Physics  
Elements of Civil Engineering and Mechanics  
Elements of Mechanical Engineering  
Basic Electrical Engineering  
Workshop Practice  
Engineering Physics Laboratory  
Language – English  
Engineering Mathematics -II  
Engineering Chemistry  
Programming in C and Data Structures  
Computer Aided Engineering Drawing  
Basic Electronics  
Computer Programming Laboratory  
Engineering Chemistry Laboratory  
Environmental Studies  
Engineering Mathematics  
Analog and Digital Electronics  
Data Structures and Applications  
Computer Organization  
Unix and Shell Programming  
Discrete Mathematical structures  
Analog and Digital Electronics Laboratory  
Data Structures Laboratory  
Engineering Mathematics  
Software Engineering  
Design and Analysis of Algorithms  
Microprocessors and microcontrollers  
Object Oriented Programming with JAVA  
Data communications  
Design and Analysis of Algorithm Laboratory  
Microprocessors Laboratory  
Advanced DBMS  
Advanced Software Engineering  
Artificial Intelligence  
C Programming and .Net  
Data Warehousing and Data Mining  
Digital Image Processing  
Embedded Computing Systems  
Fuzzy Logic  
Game Theory  
Information Systems  
JAVA and J2EE  
Multimedia Computing  
Networks Laboratory  
Neural Networks  
Object Oriented Modeling and Design  
Programming the Web  
Storage Area Networks  
Web Programming Laboratory  
Ad-hoc Networks  
Clouds, Grids and Clusters  
Decision Support Systems  
Information Retrieval  
Information and Network Security  
Microcontroller-Based Systems  
Network Management Systems  
Project Work  
Seminar  
Services Oriented Architecture  
Software Architectures  
Supply Chain Management  
System Modeling and Simulation  
User Interface Design  
Web 2.0 and Rich Internet Applications  
Wireless Networks and Mobile Computing



# ELECTRONICS & COMMUNICATION ENGINEERING

Electronics and Communication Engineering is one of the most sought after branches of Engineering and Technology in the modern day. The department has an efficient and dedicated team of staff. The staff members meticulously plan, train and guide the students in their academic activities. We conduct counseling to identify the below average students and motivate them to achieve higher academic levels by conducting tutorial and additional coaching classes.

The department of E&C has 8 separate laboratories. We have Communication laboratory, Analog Circuits laboratory, Digital Circuits and Microprocessor laboratory and the Computer laboratory. The department encourages the students to take up innovative projects as a part of the VTU curriculum.

The department has technically equipped labs with the state of Art equipments and industry standard software tools. The digital library has an excellent collection of Books, Journals, Cds which is utilized by staff and students.



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## Laboratories

- Analog Lab
- Project Lab - Avemby's Incubation Centre
- Communication Lab
- Digital Lab
- Micro controller / Microprocessor Lab
- VLSI / HDL Lab
- Advance Communication Lab
- Power Electronics Lab

# ELECTRONICS & COMMUNICATION SYLLABUS

Engineering Maths-I  
Engineering Physics  
Elements of Civil Engg. & Mechanics  
Elements of Mechanical Engg.  
Basic Electrical Engg.  
Workshop Practice  
Engg. Physics Lab  
Constitution of India, Professional Ethics and Human Rights (CPH)  
Language (Kan.)  
Engineering Maths-II  
Engineering Physics  
Elements of Mechanical Engg.  
Basic Electrical Engg.  
Workshop Practice  
Engg. Physics Lab  
Constitution of India, Professional Ethics and Human Rights  
Language (Kan.)  
Engineering Maths-I  
Engineering Chemistry  
Programming in C & Data Structures  
Computer Aided Engineering Drawing  
Basic Electronics  
Computer Programming Lab  
Engg. Chemistry Lab  
Environmental Studies  
Language (Eng.)  
Engineering Maths-II  
Engineering Chemistry  
Programming in C & Data Structures  
Computer Aided Engineering Drawing  
Basic Electronics  
Computer Programming Lab  
Engg. Chemistry Lab  
Environmental Studies  
Language (Eng.)  
Engineering Mathematics –III\*  
Analog Electronics  
Digital Electronics  
Network Analysis  
Electronic Instrumentation  
Engineering Electromagnetics  
Analog Electronics Lab  
Digital Electronics Lab  
Additional Mathematics - I  
Engineering Mathematics –IV\*  
Microprocessor  
Control Systems  
Signals and Systems  
Principles of Communication Systems  
Linear Integrated Circuits  
Microprocessor Lab  
Linear ICs and Communication Lab  
Additional Mathematics - II  
Management and Entrepreneurship  
Digital Signal Processing  
Analog Communication  
Microwaves and Radar  
Information Theory and Coding  
Fundamentals of CMOS VLSI  
DSP Lab

Analog Communication +LIC Lab  
Digital Communication  
Microprocessors  
Microelectronic Circuits  
Antenna and Propagation  
Operating Systems  
Elective-1  
Analog Mixed Mode VLSI  
Satellite 10EC663, Communication  
Random Process  
Low power VLSI Design  
Data Structures using C++  
Digital System Design Using Verilog  
Virtual Instrumentation  
Advanced communication Lab  
Microprocessor Lab  
Computer Communication Networks  
Optical Fiber Communication  
Power Electronics  
Embedded System Design  
Elective2  
DSP algorithms and Architecture  
Micro and smart systems Technology  
Artificial Neural Network  
CAD for VLSI  
Applied Embedded System Design  
Speech Processing  
Elective 3:  
Programming in C++  
Real Time Systems  
Image Processing  
Radio Frequency Integrated Circuits  
Wavelet Transforms  
Modeling and Simulation of Data Networks  
VLSI Lab  
Power Electronics lab  
Wireless Communication  
Digital Switching System  
Elective IV  
Distributed Systems  
Network Security  
optical Networks  
High performance Computing Networks  
Internet Engineering  
Elective V  
Multimedia Communication  
Real time Operating systems  
GSM  
Ad- Hoc Wireless Networks  
Optical Computing  
Project  
Seminar





# ELECTRICAL & ELECTRONICS ENGINEERING



Department of Electrical & Electronics Engineering is focusing on training the students to face the new challenges in the field of Electrical Engineering.

Since its establishment in 2002, the Department of Electrical & Electronics Engineering is continuously involved in improving the quality of the students. The department has well equipped laboratories and well trained faculty members. Students draw on the expertise and knowledge of our faculty in laboratories and classrooms with challenging and interesting course work.



The department has seven well equipped Laboratories as per the requirement of VTU. The various Labs include Analog Electronics Lab, Micro controller Lab, DC Machines and Synchronous Machines Lab, Circuit Simulation Measurement Lab, Transformers and Induction Machines lab, Control systems Lab, Power system Simulation Lab, Relay & High Voltage Lab.

The department has a Project Lab of facilitate the student to do their project work during their course. The department has a mini library and a very spacious seminar

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## Laboratories

AC Machine Lab  
DC Machine Lab  
Transformer Lab  
Measurements Lab  
Power Systems Simulation Lab

# ELECTRICAL & ELECTRONICS SYLLABUS

Engineering Mathematics-1  
Engineering Physics  
Elements of Civil Engg. & Mechanics  
Computer aided engineering  
Elements of Mechanical Engineering  
Basic Electrical Engg.  
Workshop Practice  
Engg. Physics Lab  
Functional English  
Engineering Maths-II  
Engineering Chemistry  
Programming in C & Data Structures  
Computer Aided Engineering Drawing  
Basic Electronics  
Computer Programming Lab  
Engg. Chemistry Lab  
Environmental Studies  
Engineering Mathematics-III  
Electric Circuit Analysis  
Transformers and Generators  
Analog Electronic Circuits  
Digital System Design  
Electrical and Electronic Measurements  
Electrical Machines Laboratory-1  
Electronics Laboratory  
Engineering Mathematics-IV  
Power Generation and Economics  
Transmission and Distribution  
Electric Motors  
Electromagnetic Field Theory  
Operational Amplifiers and Linear Ics  
Electrical Machines Laboratory-1  
Op- amp and Linear ICs Laboratory  
Management and Entrepreneurship  
Signals and Systems  
Transmission and Distribution  
Field Theory  
Modern Control Theory  
DC Machines & Sync. Machines  
Instrumentation & Control System Lab  
D.C. Machines and Synchronous Machines Laboratory  
Power System  
Analysis and Stability  
Power Electronics  
Electrical Machine Design  
Digital Signal Processing  
Computer Aided Electrical Drawing  
Elective-I (Group A)  
Power Electronics Lab  
System Modeling & Control Lab  
Computer Techniques in Power System Analysis

Electrical Power Utilization  
High Voltage Engineering  
Industrial Drives and Applications  
Elective-II (Group B)  
Elective-III  
(Group C)  
Relay and High Voltage Laboratory  
Power System Simulation Laboratory  
Electrical Design, Estimating and Costing  
Power System Operation and Control  
Elective-IV (Group D)  
Elective-V (Group E)  
Project Work  
Seminar



# MECHANICAL ENGINEERING

Mechanical Engineering is the only universal branch of conventional engineering the mechanical engineering department of this college is equipped with the state of the art machines and equipments in all the laboratories. The Department has foundry equipments for melting of materials which is used in research development of new metals. The department is also equipped with high end CAD/CAM and Solid Edge software and CNC Machines in its CAD/CAM Lab, which caters to academics, research and analysis.

A wide range of the latest state-of-the-art testing equipments ranging from testing of Mechanical properties of materials to the heat transfer to testing of fuels and engines, to testing of turbines and pumps are available in the department. The classrooms in the department confirm with the AICTE norms and are equipped with audio/visual aids. Our students are exposed to the latest software related to Mechanical Engineering application. The department also has an ISTE student's chapter under which lectures, seminars, workshops have been organized on latest trends and developments in the field of Mechanical Engineering. Some of the projects carried out by our students have brought laurels to the dedication, sincere and hard work of the students and faculty members.



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## Laboratories

Measurement and Metrology Lab  
Foundry Lab  
Energy Lab  
Heat and Mass Transfer Lab  
Machine Shop  
Material Testing Lab

Metallographic Lab  
Auto CAD Lab  
Design Lab  
CAD/CAM Lab



# MECHANICAL ENGINEERING SYLLABUS

Engineering Mathematics-I  
Engineering Physics  
Elements of Civil Engineering and Mechanics  
Elements of Mechanical Engineering  
Basic Electrical Engineering  
Workshop Practice  
Engineering Physics Laboratory  
Language – English  
Engineering Mathematics -II  
Engineering Chemistry  
Programming in C and Data Structures  
Computer Aided Engineering Drawing  
Basic Electronics  
Computer Programming Laboratory  
Engineering Chemistry Laboratory  
Environmental Studies  
Engineering Mathematics – III  
Materials Science  
Basic Thermodynamics  
Mechanics of Materials  
Metal Casting and Welding  
Computer Aided Machine Drawing  
Materials Testing Lab  
Machine Shop Laboratory  
Engineering Mathematics-iv  
Mechanical Measurement And Metrology  
Applied Thermodynamics  
Kinematics Of Machines  
Machine Tools And Operations  
Fluid Mechanics  
Mechanical Measurements And  
Metrology Lab  
Foundry And Forging Lab  
Management And Entrepreneurship  
Design Of Machine Elements-i  
Energy Engineering  
Dynamics Of Machines  
Manufacturing Process – Iii  
(metal Forming Process)  
Turbo Machines  
Fluid Mechanics And Machines Laboratory  
Energy Conversion Engineering Laboratory  
Computer Integrated Manufacturing  
Design Of Machine Elements – Ii  
Heat And Mass Transfer  
Finite Element Methods  
Mechatronics & Microprocessor  
Heat & Mass Transfer Laboratory  
Computer Aided Modeling And Analysis Laboratory  
Theory Of Elasticity  
Mechanics Of Composite Materials  
Refrigeration And Air Conditioning  
Design Of Heat Exchanger  
Non-traditional Machining  
Knowledge Management  
Project Management  
Statistical Quality Control  
Engineering Economy  
Mechanical Vibrations  
Hydraulics And Pneumatics  
Operation Research  
Mechanism Design

Theory Of Plasticity  
Engineering Design  
Non-conventional Energy Sources  
Gas Dynamics  
Management Information System  
Automation In Manufacturing  
Total Quality Management  
Experimental Stress Analysis  
Tool Design  
Cryogenics  
Smart Materials  
Agile Manufacturing  
Robotics  
Finance Management  
Product Life Cycle Management  
Micro And Smart Systems Technology  
Design Laboratory  
Cim & Automation  
Operation Management  
Control Engineering  
Tribology  
Fracture Mechanics  
Power Plant Engineering  
Nanotechnology  
Organizational Behaviour & Professional  
Communication  
Computer Graphics  
Rapid Prototyping  
Foundry Technology  
Machine Tool Design  
Industrial Engineering And Ergonomics  
Biomass Energy Systems  
Automotive Engineering  
Database Management System  
Artificial Intelligence  
Design Of Experiments  
Design For Manufacturing And Assembly



## CIVIL ENGINEERING



Civil Department was established in the year 2012 in HKBK college of Engineering. The department has well established labs and research facility available and has achieved remarkable in academics and research, the students are groomed and made to develop skills in a jaunty atmosphere of the department.

The department has successfully completed a DST project in collaboration with the chemistry department and has published papers in Tier 1 journals and has gained strong hold on research capabilities. The department even has an Indian Patent to its credit. The department is continuously moving ahead with zeal of setting landmarks in innovation, service and research.

Seven batches of students have graduated from the portal leaving behind a trail of achievements, to summarize



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### Laboratories

Geology Lab  
Geotechnical Lab  
Concrete lab  
Environmental Lab  
Survey Lab

# CIVIL ENGINEERING SYLLABUS

Engineering Mathematics-1  
Engineering Physics  
Elements of Civil Engg. & Mechanics  
Computer aided engineering  
Elements of Mechanical Engineering  
Basic Electrical Engg.  
Workshop Practice  
Engg. Physics Lab  
Functional English  
Engineering Maths-II  
Engineering Chemistry  
Programming in C & Data Structures  
Computer Aided Engineering Drawing  
Basic Electronics  
Computer Programming Lab  
Engg. Chemistry Lab  
Environmental Studies  
Engineering Mathematics-III  
STRENGTH OF MATERIALS  
FLUIDS MECHANICS  
BASIC SURVEYING  
ENGINEERING GEOLOGY  
Building Materials and Construction  
BUILDING MATERIALS TESTING LABORATORY  
BASIC SURVEYING PRACTICE  
Engineering Mathematics-IV  
Analysis of Determinate Structures  
Applied Hydraulics  
Concrete Technology  
Basic Geotechnical Engineering  
Advanced Surveying  
Fluid Mechanics and Hydraulic Machines Laboratory  
Engineering Geology Laboratory  
management and entrepreneurship  
design of RCC structural elements  
structural analysis - II  
geotechnical engineering - I  
hydrology and irrigation engineering  
transportation engineering - I  
hydraulics and hydraulic machines lab  
computer aided design lab  
environmental engineering-I  
design and drawing of RC structures  
transportation engineering-II  
geotechnical engineering - II  
hydraulic structures and irrigation design -drawing  
Theory of Elasticity  
Alternative Building Materials and Technologies  
Ground Improvement Techniques  
advanced surveying  
Ground Water Hydrology  
rural water supply and sanitation  
traffic engineering  
Geotechnical Engineering Lab  
Extensive Survey Viva Voce  
environmental engineering-II  
design of steel structures  
estimation and valuation  
design of pre stressed concrete structures  
Matrix Method of Structural Analysis  
Advanced design of RC structures  
Design of masonry structures

Earth and Earth Retaining Structures  
Highway Geometric Design  
Open Channel Hydraulics  
Solid Waste Management  
Numerical methods in Civil Engineering  
Rock Mechanics  
Pavement Materials and Construction  
Photogrammetry and Remote Sensing  
Air Pollution and Control  
Design and Drawing of Bridges  
Structural Dynamics  
Environmental Engineering. Lab  
Concrete and Highway Materials Lab  
Advanced Concrete Technology  
Design and Drawing of Steel Structures  
Advanced Pre-stressed Concrete Structures  
Advanced Foundation Design  
Pavement Design  
Earthquake Resistant Design of Structures  
Industrial Waste Water Treatment  
Construction Management & Engineering Economics.  
Finite Element Analysis  
Reinforced Earth Structures  
Urban Transport Planning  
Geographic Information System  
Advanced Design of Steel Structures  
Water Resources Engineering  
Environmental Impact Assessment  
Project Work  
Seminar





## BASIC SCIENCES



Basic Sciences form a platform for the development of technology. The advancement in technology is a result of the intensive research & development in the different areas of basic sciences.

The department aims at imparting knowledge of different aspects of Basic Sciences useful in Engineering and Technology for the students of all engineering disciplines. In-depth knowledge of Basic-Science is of paramount importance in the learning of any branch of engineering and technology.

The Basic Science department staff always motivate the students towards greater attention and hard labour, which the subject demands. The upgrade of the department is an ongoing process in procuring the advanced apparatus and other necessary equipment as per VTU.

The Staff is constantly in touch with the latest developments in various fields of science & technology and imparts the same to the students. Most of our professors are associated with the research & development and have successfully published scientific papers. The department has successfully implemented week student support programs with excellent results. This has been a morale booster towards achieving academic excellence.

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### Laboratories

Chemistry Lab  
Physics Lab  
Basic Workshops  
CAED Lab  
CCP Lab  
English Lab



# MASTER OF BUSINESS ADMINISTRATION

HKBKCE identified the need for management education due to the convergence of economics & technology and started offering MBA course of VTU in the year 2006. That is the milestone in its journey towards providing quality education. The programme combines management education with Indian values and to uses real time interaction with corporate for value added learning. Today's workforce responds to leadership that follows a coaching or mentoring model.

Successful leaders work with the aim of reflecting their innovative methods and unique vision. Keeping in tune with the above change, the department derived a teaching pedagogy that creates leaders for the next generation corporate world. The watch words are discipline, dedication and determination. In confirming with the mission, the department of management studies is imparting, short term compulsory value added courses.

Studying management at HKBKCE would offer students the best In strategic knowledge, industry insight, life skills and successful adaptation to real time business situations. The college has qualified and experienced faculty members committed to help students achieve their professional goals and success in any work environment.

The educational pedagogy ensures that the students come out confident. Enthusiastic and competitive to face the challenges of the corporate World.

## MBA SYLLABUS

Management & Organizational Behavior  
Managerial Economics  
Accounting for Managers  
Quantitative Methods  
Marketing Management  
Managerial Communication  
Human Resource Management  
Financial Management  
Research Methodology  
Business Law and Policy  
Strategic Management  
Entrepreneurship Development  
Consumer Behavior  
Retail Management  
Services Marketing  
Principles & Practices of Banking  
Investment Banking & Financial Services  
Investment Management  
Industrial Relations & Legislations  
Recruitment & Selection  
Compensation & Benefits  
Sales Management  
Integrated Marketing Communication  
E-Marketing  
Public Relations  
Workplace Ethics & Value Systems  
International Human Resource Management  
Mergers, Acquisitions & Corporate Restructuring  
Risk Management and Insurance  
Tax Management



# CO-CURRICULAR ACTIVITY



# ACHIEVERS

**Shambhavi A (1HK09EC094) from 8th semester ECE, VTU III Rank ,  
13th Annual convocation, May 2014, Dept. of Electronics and Communication Engineering**



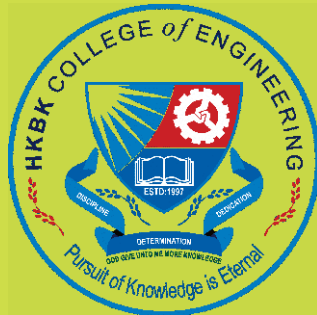
**Department of Electronics and Communication Engineering, Secured 1st Rank in  
M.Tech (Electronics), and was awarded a Gold Medal in the 14th Convocation Function, VTU**



**Ms. Sameeha Ameer (1HK09IS036) from ISE awarded VTU III Rank in  
13th Annual Convocation, May 2014, Dept. of Information Science & Engineering**



# CAMPUS RECRUITMENT



**HKBK**  
College of Engineering

Approved by AICTE & Affiliated to VTU

**HKBK College of Engineering**  
Off Manyata Tech Park, 22/1 Nagawara  
Bangaluru 560 045

+91 802 544 1722 / 3744 /3690 / 3698  
+91 802 544 3813 (fax)

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