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# BENAWA INSTITUTE OF HIGHER EDUCATION

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Where Your Future Begins!



THE CONTENTS OF THIS PROSPECTUS HAVE BEEN PRESENTED AS CLEARLY AS POSSIBLE, BUT IN CASE OF ANY AMBIGUITY  
THE INTERPRETATION OF BIHE WILL BE FINAL.

BIHE RESERVES THE RIGHT TO MODIFY ANY STATEMENT OR CONDITION IN ANY SECTION OR PART IN THIS PROSPECTUS AS  
IT DEEMS FIT IN THE INTEREST OF GOOD MANAGEMENT OF THE INSTITUTION, AND ACCEPTS NO RESPONSIBILITY FOR ANY  
CONSEQUENCES OF SUCH MODIFICATION AND/OR CANCELLATION.



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**Muhammad Nadir Noorzai**

Benawa Institute of Higher Education (BIHE) was established by Chairman Muhammad Nadir Noorzai son of Haji Abdul Wahid in 2013.

A befitting acknowledgement to him and his family and a valuable gift to nation, the Benawa Institute of Higher Education upholds the noble mission of service above self in furthering the cause of higher education.

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# *Chancellor's Message*



**Engr. Abdul Hadi Muzzammil**

After over 4 years of building a solid foundation of high quality engineering and computer science education and research, at the Undergraduate level, Benawa Institute of Higher Education (BIHE) is embarking on a journey to reach the next level of excellence. It aims to not just produce high class engineers and computer scientists but professionals and change agents. These agents of change other than being better human beings and better citizens of our beloved country Afghanistan, would be ready to tackle the problems that beset our country with leadership, ingenuity and the highest level of moral and ethical values.

I would like to welcome the students' of 2017 intake to the BIHE family. I am sure that the four years that they spend at this institute will be professionally enriching and enjoyable and they would remember these years throughout their life.



# Why BIHE?

Benawa Institute of Higher Education (BIHE) remains the hub of Engineering and Computer Sciences Education in Kandahar, ever since its inception in 2013. Offering a truly transformative and evolved learning experience, it is an institution that truly redefines higher education in the country and its nearby regions.

After 4 years of proven excellence, Benawa institute is now embarking on the journey to reach the next level of excellence. Some key features of BIHE are highlighted below:

- High Quality Technical Education: Electrical Engineering and Computer Science Education at Bachelors Level with qualified and experienced Faculty
- Benawa Institute is proud of its faculty who are well qualified and experienced in their relevant fields. They play a very important role in the life of a student as teachers, mentors, counselors and advisors.
- These dedicated teachers involve students in decision making at all levels with respect to academic, extra and co-curricular activities, help them in their projects and groom them to pursue their academic journey smoothly.



## Vision:

To be a center of excellence for creating new and useful knowledge and produce professional leaders who could compete with the best in the world and who would bring in a paradigm shift in the quality of life of the people of Afghanistan.

## Mission:

Benawa Institute's mission is to create new and useful knowledge for solving Afghanistan's and international problems and produce leaders who are technically excellent, socially and environmentally responsible, innovators, professionals and entrepreneurs who would act as change agents for the betterment of society and Afghanistan.

## Objectives:

In pursuit of this mission, Benawa Institute endeavors to create new and useful knowledge that can be used to solve problems that are faced by Afghanistan's and world at large and train a community of engineers, technologists, computer scientists, both men and women who:

- are better human beings
- are better citizens
- are lifelong learners
- are application oriented
- are capable of independent and critical thinking
- are innovative and resourceful in solving complex problems
- have the entrepreneurial spirit
- are rational human beings
- have strong interpersonal and managerial skills
- show tolerance to others' views
- treat humanity, nature, environment with respect and affection
- undertake endeavors to up-grading Brand "Afghanistan" on an International map

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# Students

Students, undoubtedly, are the most enterprising and valued members of any educational institution. BIHE is a firm believer in that and holds its students in high esteem.



Students, both females and males, are equal members of BIHE family with faculty and staff. As respectable members of this educational fraternity and future hope of the nation, every effort is made to ensure their security on campus and to preserve their dignity, self-respect and aspirations.

BIHE believes in a holistic development of students. Students are encouraged to take initiative and participate in a variety of committees, events, sports and upgrade their skills. These opportunities are listed and described under “Student Affairs.”



# Student Affairs

Student Affairs Office is an integral component of student life on campus. It is a division of service and support to enhance student growth and development. In other words, it is a helpful friend of students even before they are admitted to BIHE as freshmen and sustains that relationship even after graduation as alumni of BIHE.

Its service areas include, amongst, others:

- Admissions, all relevant information and advice.
- Student financial aid and scholarships
- Academic advising and counseling (in coordination with faculty advisors)
- Sports and other enrichment activities
- Alumni services (in coordination with Director, Industrial Liaison & Placement Bureau)

## Student Advisors

Students joining degree courses are assigned 'Advisors' who are members of the faculty. Normally, these appointments/meetings take place throughout the entire period of student's stay at BIHE unless a change becomes necessary due to departure of the faculty member or for balancing the Advisor's load.



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# Academic Programmes & Degree

## Engineering

- 1- Bachelor of Electrical Engineering
- 2- Bachelor of Civil Engineering

## Computer Science

- 1- Bachelor of Computer Science (Software Engineering)
- 2- Bachelor of Computer Science (Networking)



Academic programmes are designed keeping in view the standards of internationally recognized universities. The courses are structured in such a way that students acquire sufficient analytical understanding and application skills to enable themselves for adaptation to changing technology.

The outlines of each course indicate the minimum coverage of the course. Advancements taking place in different areas of technology are reflected in the course contents as a regular addition.

A lecture breakup will be prepared by each course teacher and will be distributed to every student at the beginning of the session to help students plan their studies effectively.

Presently the following programmes of study leading to Bachelor degrees are offered at BIHE.

- Bachelor of Electrical Engineering
- Bachelor of Civil Engineering
- Bachelor of Computer Science (Software Engineering)
- Bachelor of Computer Science (Database)
- Bachelor of Computer Science (Networking)

**Course Numbering System** In a course number AB XYZ, AB are the alphabet and XYZ are the digits. AB denotes the academic discipline.

- EL Electrical Engineering
- CE Civil Engineering
- MA Mathematical Subjects
- IS Islamic Subjects
- EN English Literature / Language
- CS Computer Science

# Bachelor of Civil Engineering

## Semester 1

| Course No.               | Course Title                             | Credits Hours |
|--------------------------|--|---------------|
| EN101                    | English communication & study skills     | 3             |
| MA101                    | Calculus 1                               | 4             |
| CE101                    | Engineering Drawing                      | 4             |
| CE102                    | Introduction to Engineering and computer | 3             |
| PH101                    | Physics 1(Mechanics)                     | 3             |
| IS101                    | Islamic studies                          | 1             |
| HI101                    | Modern History of Afghanistan            | 1             |
| <b>Total Credits: 19</b> |  |               |

## Semester 2

| Course No.               | Course Title                         | Credits Hours |
|--------------------------|--------------------------------------|---------------|
| EN201                    | English Writing Skills               | 3             |
| MA201                    | Calculus 2                           | 4             |
| CE201                    | Auto CAD                             | 4             |
| CE202                    | Engineering Chemistry                | 3             |
| PH201                    | Physics 2 (Electromagnetism & Optic) | 3             |
| IS201                    | Islamic studies                      | 1             |
| <b>Total Credits: 18</b> |                                      |               |

## Semester 3

| Course No.               | Course Title                              | Credits Hours |
|--------------------------|---|---------------|
| EN301                    | English( Civil Engineering Terminologies) | 3             |
| MA301                    | Calculus 3                                | 4             |
| CE301                    | Architecture 1(Residential Building)      | 2             |
| CE302                    | Static                                    | 3             |
| PH301                    | Electrical physics                        | 3             |
| IS301                    | Islamic studies                           | 1             |
| CE303                    | Environmental Studies                     | 2             |
| <b>Total Credits: 18</b> |   |               |

## Semester 4

| Course No.               | Course Title                    | Credits Hours |
|--------------------------|---------------------------------|---------------|
| MA402                    | Calculus 4                      | 4             |
| EL401                    | Circuit analysis                | 3             |
| CE401                    | Strength of Materials           | 3             |
| CE402                    | Engineering Surveying 1         | 2             |
| CE403                    | Architecture 2(Public Building) | 2             |
| IS401                    | Islamic studies                 | 1             |
| CE404                    | Thermodynamics                  | 3             |
| <b>Total Credits: 18</b> |                                 |               |

## Semester 5

| Course No.               | Course Title            | Credits Hours |
|--------------------------|-------------------------|---------------|
| CE501                    | Structure Analysis 1    | 3             |
| CE502                    | Fluid Mechanics         | 3             |
| CE503                    | Hydrology               | 2             |
| CE504                    | Engineering Surveying 2 | 2             |
| CE505                    | Structure economy       | 3             |
| IS501                    | Islamic studies         | 1             |
| CE506                    | Dynamics                | 3             |
| <b>Total Credits: 17</b> |                         |               |

## Semester 6

| Course No.               | Course Title           | Credits Hours |
|--------------------------|------------------------|---------------|
| CE601                    | Structure Analysis 2   | 3             |
| CE602                    | Hydraulics             | 3             |
| CE603                    | Concrete 1             | 3             |
| CE604                    | Steel Design           | 3             |
| CE605                    | Engineering geology    | 2             |
| IS601                    | Islamic studies        | 1             |
| CE606                    | Construction Materials | 3             |
| <b>Total Credits: 18</b> |                        |               |

## Semester 7

| Course No.               | Course Title               | Credits Hours |
|--------------------------|----------------------------|---------------|
| CE701                    | Earthquake Engineering     | 3             |
| CE702                    | Engineering transportation | 3             |
| CE703                    | Concrete 2                 | 3             |
| CE704                    | Water supply Engineering   | 2             |
| CE705                    | Soil Mechanic              | 3             |
| IS701                    | Islamic studies            | 1             |
| CE706                    | Technology of concrete     | 2             |
| <b>Total Credits: 17</b> |                            |               |

## Semester 8

| Course No.               | Course Title               | Credits Hours |
|--------------------------|----------------------------|---------------|
| CE801                    | Foundation Design          | 3             |
| CE802                    | Road Design                | 3             |
| CE803                    | Waste water Engineering    | 3             |
| CE804                    | Project Design             | 4             |
| CE805                    | Elective1(Professional )   | 3             |
| CE806                    | Elective(un Professional ) | 3             |
| IS108                    | Islamic studies            | 1             |
| <b>Total Credits: 20</b> |                            |               |

# Bachelor of Computer Science

## Semester 1

| Course No. | Course Title                | Credits Hours |
|------------|-----------------------------|---------------|
| CS101      | IT Concepts                 | 3             |
| CS102      | Programming Concepts        | 4             |
| CS103      | Practical – IT -1           | 2             |
| MA101      | Calculus-I                  | 4             |
| EN101      | English I ( IELTS Reading ) | 3             |
| HI101      | History                     | 1             |
| IS101      | Islamic Studies             | 1             |

**Total Credits: 18**

## Semester 2

| Course No. | Course Title                 | Credits Hours |
|------------|------------------------------|---------------|
| CS201      | Programming Language-I (C++) | 4             |
| CS202      | Digital Logic Design(DLD)    | 3             |
| CS203      | Practical IT -2              | 2             |
| MA201      | Calculus-II                  | 4             |
| EN201      | English II(IELTS Writing )   | 3             |
| IS201      | Islamic Studies              | 1             |

**Total Credits: 17**

## Semester 3

| Course No. | Course Title         | Credits Hours |
|------------|----------------------|---------------|
| CS301      | OOP in C++           | 3             |
| CS302      | Discrete Mathematics | 3             |
| CS303      | Data Structure       | 3             |
| CS304      | Web Designing        | 3             |
| PH301      | Physics              | 3             |
| IS301      | Islamic Studies      | 1             |
| CS305      | Practical – IT –III  | 2             |

**Total Credits: 18**

## Semester 4

| Course No. | Course Title              | Credits Hours |
|------------|---------------------------|---------------|
| CS401      | Data Base-I               | 3             |
| CS402      | Operating System Concepts | 3             |
| MA401      | Numerical Analysis        | 3             |
| CS403      | Web Programming           | 3             |
| CS404      | Java-I                    | 4             |
| IS401      | Islamic Studies           | 1             |

**Total Credits: 17**

## Semester 5

| Course No. | Course Title                           | Credits Hours |
|------------|--|---------------|
| CS501      | Data Base-II                           | 3             |
| CS502      | Software Engineering-I                 | 3             |
| CS503      | Computer Architecture and Organization | 3             |
| CS504      | Data & Computer Communication          | 3             |
| CS505      | Advance Programming in Java            | 4             |
| IS501      | Islamic Studies                        | 1             |
| CS501      | Data Base-II                           | 3             |

**Total Credits: 17**

## Semester 6

| Course No. | Course Title            | Credits Hours |
|------------|-------------------------|---------------|
| CS601      | Software Engineering-II | 3             |
| CS602      | Automata Theory         | 2             |
| CS603      | E-Commerce              | 3             |
| CS604      | Networking              | 4             |
| CS605      | Assembly                | 4             |
| IS601      | Islamic Studies         | 1             |
|            | Software Engineering-II |               |

**Total Credits: 17**

## Semester 7

| Course No. | Course Title                   | Credits Hours |
|------------|--------------------------------|---------------|
| CS701      | Artificial Intelligence        | 3             |
| CS702      | Compiler Construction          | 3             |
| CS703      | Visual Programming             | 3             |
| CS704      | Software Project management    | 3             |
| CS705      | Wireless& Mobile Communication | 3             |
| IS701      | Islamic Studies                | 1             |
| CS706      | Elective-I                     | 2             |

**Total Credits: 18**

## Semester 8

| Course No. | Course Title                          | Credits Hours |
|------------|---------------------------------------|---------------|
| CS801      | Analysis of Algorithms                | 3             |
| CS802      | Software Project Development & Thesis | 6             |
| CS803      | Technical Report Writing              | 3             |
| IS801      | Islamic Studies                       | 1             |

**Total Credits: 13**

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# Fee Structure

## Bachelor of Computer Science and Engineering

| Semester wise Registration                   | Fee         |
|--|-------------|
| Admission Fee (Non-Refundable) - (Only Once) | Af. 2000    |
| Tuition Fee - (Per Semester)                 | Af. 20000   |
| Security Deposit (Refundable) - (Only Once)  | Af. 2000    |
| ID Card Fee - (Only Once)                    | Af. 200     |
| Internet Fee - (Per Semester)                | Af. 500     |
| Transport Fee - (if any) - (Per Month)       | Af. 500-800 |
|  |             |

Note: Financial Assistance is available to all students. Eligible students will be payable of 75% of Tuition Fee.

| Course wise Registration                    | Fee      |
|---|----------|
| Complete Course Registration (Lab + Theory) | Af. 3000 |
| Lab only Registration                       | Af. 1000 |
| Theory only Registration                    | Af. 2000 |
| Exam Only Registration                      | Af. 200  |
|   |          |

## Financial Assistance

BIHE offers a limited program of Financial Assistance mainly to help genuinely needy students and to encourage high performance and merit. The responsibility to establish the financial 'need' rests with the students. Students are advised to explore alternate funding sources before applying to BIHE. An evidence of such an effort should form a part of application for financial assistance.

## Scholarship

BIHE offers a "Haji Nadir" Scholarship for female, which offers 150 scholarships of 80% tuition fee. BIHE also offers "Haji Nadir" scholarship for male students, which offers 250 scholarships of 50% tuition fee in each semester.



# Refund of Tuition Fee on Withdrawal

**Refund of Tuition Fee on Withdrawal** A student who registers and decides not to attend the semester / course for any reason whatsoever, or chooses to withdraw during the semester must inform the Academic Administration office in writing that he / she is discontinuing the studies.

**Students discontinuing their studies without written intimation are not eligible for financial adjustment.**

The date on which vice chancellor receives the written intimation & determines the amount of Tuition fee to be refunded. Fees other than the Tuition fee are not refundable. Students who are rusticated, suspended or expelled from BIHE on account of a disciplinary action against them are not eligible for any refund of fee at any time.

## Tuition Fee Refund Schedule is as under:

Tuition Fee Refund Schedule is as under:

1. During 1st week ..... 80%
2. During 2nd week ..... 70%
3. During 3rd week ..... 60%
4. During 4th week ..... 50%

**No refund after 4th week of semester.**



# Admission Information

## Online Admission System:

For the first time BIHE provides a comprehensive online admission system ([admission.benawa.edu.af](http://admission.benawa.edu.af)), where student can apply for admission at any time and from anywhere.

## Eligibility:

- 1 - Student passed higher secondary school with a minimum of 60 percentage.
- 2- Student should clear all Medical Test prior to admission in BIHE.

## Documents Required with the Application Form:

- 1 - HSC Certificate
- 2 - HSC mark sheet
- 3 - Verification Letter from Board.
- 4 - National ID Card (Taskira)
- 5 - Admission Form
- 6 - 8 Photographs

## Photograph Specification

- the picture should be clearly visible.
- Background should be on plain white or off white.
- the contrast and lighting in the photo should be normal
- the picture should have a minimum resolution of 600 pixels x 450 pixels



## Entrance Test Scores:

Applicants are required to pass Institute's Entrance Test (Kankor) with score at least 50% in all sections.

## Merit Criteria:

Merit List is made on the basis of HSC and Entrance test as per following

Share of Marks obtained in the HSC Examination 20%

Share of Marks obtained in the Entrance Test 80%

## Rejection of Application

- The Chairman Admission Committee can cancel or withdraw admission of any candidate.
- The application shall be rejected summarily in case the applicant is found guilty of any suppression or misrepresentation of material facts at any stage.





# General Rules

A high standard of decency and discipline is expected from students. All who seek admission to BIHE must understand and be very clear in their minds that the Institute demands a high standard of behavior from them in their manners, demeanor, speech and action. They are expected to be pleasant, soft spoken, neatly and smartly dressed when they attend classes and at all other times when they interact with any person in or outside the campus.

Disorderly behavior during examinations as well as in other situations may result in irrevocable dismissal from the Institute. Disciplinary Committee consisting of senior faculty decides all discipline related issues and awards appropriate punishment including fine, suspension from classes, etc. apart from dismissal and rustication from the Institution.

- All students of the Institute shall conform to the Rules and Regulations of the Institute and are under overall disciplinary control of the Chancellor.
- Breach of rules, misconduct, irregularity in time keeping, idleness, lack or un-reasonable progress in studies etc., will render a student liable to disciplinary action including expulsion or rustication from the Institute. In this regard, the Chancellor is the sole and final authority.
- Students who abstain themselves (for seven days at a stretch without notice) either from lectures or from laboratory work will not be allowed to resume their study until satisfactory explanation is submitted and accepted.
- A student desirous of leaving the Institute must apply in writing and such application must be countersigned by the student's parent or guardian. Admission once cancelled shall not be restored.
- Students are strictly forbidden from forwarding applications, appeals or any other communication direct to any authority other than the Head. Any contravention of this rule shall make the student liable

For disciplinary action.

- Students may be permitted to form or carry on only such associations or clubs as are provided under the Rules. Such associations or clubs must be open for membership regardless of religion, community or political opinion. In no circumstances will any association, the object or membership of which is directly or indirectly sectarian, ethnic or political, be permitted. No member of the association or club can invite any outsider in Institute without prior permission in writing from the vice chancellor.
- No functions are permitted to be held by the students in the Institute without prior permission in writing from the Chancellor.
- The following among others, shall constitute acts of indiscipline for which action may be taken against the student or students:
  - Involvement in any political/ ethnic/religious disputes within Institute premises.
  - Creating law and order situation in the Institute premises.
  - Threatening /pressurizing faculty members and/or officers of the Institute inside or outside the Institute premises.
  - Damaging or destroying Institute property.
  - Teasing or harassing or molesting of students inside or outside Campus especially the opposite gender.
  - Creating disturbances in class rooms/ laboratories
  - Attempting to bring any external pressures for passing examinations, exemption from attendance or any other purpose.



# Leave of Absence

Under exceptional circumstances, students may apply for leave of absence to the Head of the Department who may sanction such leave for short periods but the grant of such leave will not be acceptable as a plea for not putting in 75% of the attendance which is a pre-requisite for being eligible to appear in the examinations.

- No student is eligible to sit for the Examination unless he/she has at least 75% attendance at the Theory, Laboratory and Practical classes.



# Contact US

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