

**Students’ Attributes**

**(Revised)**

**November 2018**

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**(Autonomous)**

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**Students’ Attributes**

The institution strives through its curricular, co-curricular and extracurricular activities delivering generic attributes to students enabling them to achieve success in their studies beyond :

* Attitude
* Academic skills
* Interpersonal skills
* Self-motivation and self-discipline
* Time-management
* Perceptiveness

**Specific attributes that enable the students for successful engineering professions are**

|  |  |
| --- | --- |
| Image result for Engineering knowledge clipart | **Engineering knowledge:**  Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems. |
| Related image | **Problem analysis**:  Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences. |
| Image result for Design/development of solutions clipart | **Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations. |
| Related image | **Conduct investigations of complex problems**:  Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions. |
| Image result for 3d printer clip art | **Modern tool usage**:  Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. |
|  | **The engineer and society**:  Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. |
| Image result for Environment and sustainability IMAGE CLIPART | **Environment and sustainability:**  Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge and need for sustainable development |
| Image result for ETHICS IMAGE CLIPART | **Ethics**:  Apply ethical principles and commitment towards professional ethics and responsibilities and norms of the engineering practice. |
| **C:\Users\SITAMS\Desktop\download.jpg** | **Individual and teamwork**:  Function effectively as an individual, and as a member or leader in diverse teams, and multidisciplinary settings. |
| Image result for Communication IMAGE CLIPART | **Communication**:  Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, by giving and receiving clear instructions. |
| Related image | **Project management and finance**:  Demonstrate knowledge and understanding the engineering and management principles and apply these to one's work, as a member and leader in a team, to manage projects and in multidisciplinary environments. |
|  | **Life-long learning**:  Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change |

***Student Outcomes***

|  |  |
| --- | --- |
| Image result for Progress to Higher Studies Ug PG Phd clipart | Image result for happy job images clip art |
| **Progression to Higher Studies** | **Securing Career** |
| Image result for Opportunities for entrepreneur |  |
| **Opportunities for Entrepreneurship** | **Attitude for Continuous Learning** |