

# Bachelor of Science (Applied Physics) with Honours

## A. UNIVERSITY

### 1. UTHM Vision

Towards a world class university in engineering, science and technology for sustainable development

### 2. UTHM Mission

UTHM is committed to generate and disseminate knowledge, to meet the needs of industry and community and nurturing creative and innovative human capital, based on tauhidic paradigm

### 3. UTHM Education Philosophy

The education and training in this university is a continuous effort to lead in the market oriented academic programmes. These programmes are student-focused and are conducted through experiential learning in order to produce well trained human resource and professionals who are catalysts for a sustainable development

## B. PROGRAMME

### 1. Programme Aims

To produce graduates who are competent and implement tauhidic approach in developing human attitude through training and a holistic multidisciplinary program to meet current market needs and be able to compete globally. This effort is realized with the energy deployment and the optimization of expertise. This objective is in line with the objectives of the university and faculty.

### 2. Programme Educational Objectives (PEO)

The programme educational objectives for Bachelor of Science (Applied Physics) with Honours programme (BWC) are to produce graduates who are able to:

PEO	Description	Key Performance Index (KPI)
PEO 1	Competent and innovative in providing sustainable solutions to fulfill the needs of organisation. (PLO 1, PLO 2, PLO 3, PLO 6, PLO 7)	70% working in industries 5% participated in research and development
PEO 2	Continuously self-updating and contributing to the betterment of community, society and nation. (PLO 1, PLO 5, PLO 9, PLO 10, PLO 11)	10% involvement in societal activities 10% continuous development 10% has owned or partnership in entrepreneurial activities
PEO 3	Key member in any organisation with high consideration to the environment and ethics. (PLO 4, PLO 8, PLO 11)	5% holding a senior position in the workplace 10% involvement in project management in the workplace

### 3. Programme Learning Outcomes (PLO)

The programme learning outcomes for Bachelor of Science (Applied Physics) with Honours programme (BWC) are to produce graduates who are able to:

<b>PLO 1</b>	Knowledge and Understanding	Apply knowledge and understanding in Applied Physics.
<b>PLO 2</b>	Cognitive Skills	Resolve any problems in Applied Physics with creative and innovative solutions.
<b>PLO 3</b>	Practical Skills	Apply a range of essential methods and procedures, using current tools to solve a broad range of scientific problems in Applied Physics.
<b>PLO 4</b>	Interpersonal Skills	Exhibit good relationship, interact with others and work effectively in fulfilling individual and group tasks when tackling issues related to Applied Physics.
<b>PLO 5</b>	Communication Skills	Communicate and deliver information effectively in both written and verbal forms.
<b>PLO 6</b>	Digital Skills	Use a broad range of information and media technologies to support the learning process.
<b>PLO 7</b>	Numerical Skills	Incorporate numerical and graphical techniques in Applied Physics.
<b>PLO 8</b>	Leadership, Autonomy and Responsibility	Demonstrate decision making professionally, autonomously and responsibly in managerial capacities.
<b>PLO 9</b>	Personal Skills	Engage in continuous enhancement of knowledge in the field of applied physics and related discipline.
<b>PLO 10</b>	Entrepreneur	Initiate a plan of self-driven entrepreneurship.
<b>PLO 11</b>	Ethics and Professionalism	Identify ethical issues, make decision ethically, and act professionally within the varied social and professional environment.