



**Bachelor of Education
in
Technology**

Student Handbook

**Faculty of Training Technology
University of Vocational Technology**

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Rationale for the Bachelor of Education in Technology Degree:

In recent years a good deal of attention has been paid to technical & vocational teacher education programmes which would keep pace with our changing society and its requirements. The programmes tend to be designed in such a way as to encourage a longer-term productive change and a more context-sensitive approach catering for trainees' current or future teaching contexts.

It is undeniable that technical teaching is a dynamic process which calls for systematic theoretical and practical preparation, both of which should be given to prospective teachers before they face their first teaching experience. Teacher-preparation programmes should be comprised of a concise inventory of goals in teacher preparation and the means of implementing them, and, understandably, re-assessed and brought into line with the latest developments in the related disciplines and technological advances. The responsibility of initial technical teacher training institutions or departments is to set the standard for the development of professionally useful and pedagogically potent programmes of technical teacher education.

As a result, student teachers have to be able to identify and clarify acceptable standards of initial teacher preparation. To that end, they should develop in the trainees (or student-teachers) an understanding of the principles of education and technological advancements of the respective technology areas. The educators should foster in the trainees the general intellectual capacities commensurate with the developing or changing role of the technology teacher which the "Digital/Information Age" has imposed upon him/her. The rationale of the teacher-preparation programme should stipulate the educator's task to provide the trainees with an opportunity to practice the teaching of technology in a controlled way, so that they could emerge as **confident and competent** classroom teachers one day; student-teachers should be trained to develop powers of self-evaluation linked with an orientation towards autonomous learning which will enable them to improve their teaching abilities once their initial (pre-service) training is over.

The B.Ed.Tech course is a curriculum with both theoretical and practical training for teacher students. It includes ten hours of theoretical lectures as well as eight hours of practice sessions per week. At the first and half years of the course, students are offered the technology modules related to their respective technology area through the technology departments. At the second first and half years, the teacher students have to follow the educational modules offered by the Department of Education and Training. Final semester, it means the sixth semester of the course, is reserved for industrial training and final project work. Within the first three months of the final semester, the students are placed in an industry where they could gain industrial exposure in relation to their respective technology area. The rest of the three months are allocated for the final year project. These two components are very closely supervised by two faculties with the support of the industry experts and faculty members.

B.Ed.Tech. degree programme aims at producing quality technology teachers/ instructors with the power of effectively handling the challenges emerged in the modern classrooms. As far as the technology is concerned, technology advances aren't standstill; it takes changes in each and every second. Hence, the technology teacher/instructors should

possess knowledge as well as the skills of managing the new technology before he/she disseminates the knowledge and skills in the classrooms.

To put it simply, teacher students must be theoretically and practically prepared for what awaits them one day when they take up the teaching profession, and most of them are willing. Having this fact in mind and also the ever increasing need for highly qualified teachers who would meet the standards of a changing society, due attention should be paid to the practical component, for therein lies a rich mine of expertise which should be drawn upon during the initial professional education of each new generation of technical teachers.

In order to familiarize teacher students with the qualities of good teachers possess, and teach them to conduct their classroom teaching as well as practical sessions with flexibility and effectiveness, the B.Ed. Tech. Programme should be based on the innovations in the field of teaching-learning Methodology and on the needs of the students, thus covering a broad range of activities and tasks arising from personal and vicarious experience in teaching. These issues assume even greater importance today due to the ongoing process of technical educational reforms and the necessity to promote high standards in education in general.

Admission Requirements:

- a. NDTVE/NDVTT/NDTTE offered by NITESL/UNIVOTEC
OR
- b. National Diploma in Teaching (Technology subject) offered by NIE at Colleges of Education
OR
- c. Higher National Diploma in Engineering offered by SLIATE
OR
- d. NVQ Level – 05 or 06 qualifications offered by VTA/NAITA/DTET or any other technical Institution in relation to a technology area
OR
- e. National Diploma in Technology offered by University of Moratuwa
AND
Two years of teaching experience in a government school or recognized Institute
OR
Any other qualifications acceptable to the Academic Council of the University

Exemptions may be granted in relevant modules after a proper evaluation for those who have NVQ level 6 or equivalent qualifications. Preference will be given to those applicants having post diploma industrial experience of at least one year.

Student Selection:

Eligible candidates are required to sit for aptitude test. Selection is done based on the marks obtain by the candidates.

Registration:

Registration is the acceptance of the selected applicant as a student in the University. Prior to registration the applicant is issued with an offer letter for a particular academic programme along with a voucher to pay the relevant course fee, of which following may be the constituents:

- a) Registration fee – To be paid at the first registration and subsequently at re-registrations
- b) Tuition fee
- c) Facility fee
- d) Library deposit (Refundable)
- e) Library fees (nonrefundable)
- f) Laboratory fee if applicable (nonrefundable)

The letter calling for registration will request the applicant to produce the original documents of the following:

- a) School leaving certificate
- b) National Identity Card or Passport
- c) Birth Certificate
- d) Certificates of all educational qualifications
- e) Documents requested to be obtained from the employer
- f) Any other documents depending on the study programme
- g) Documentary evidence for the payment of the Registration fees, course fees, Library fees, etc.

University has no obligations to refund the above fees in case of a disqualification of an applicant for reasons due to lapse/s from the part of the applicant at the registration stage. The applicant who is duly registered for an academic programme shall become a student of the University and will receive a Student number and a Student Identification Card.

The selected candidate shall personally appear before the registration desk for registration, unless the provision is available for online registration.

Credit system and the Duration:

The course structure is based on module system. Each module has been assigned a Credit Value, depending upon the number of notional hours required to achieve the outcome of the module. Notional hours include directed learning as well as self-directed learning. One credit is equivalent of 25 notional hours of learning. This system is bench marked with the European Credit Transfer and Accumulation System (ETCS).

Duration of the degree program is 3 years. One academic year consists of two semesters. One semester may consist of 15 weeks for full time and 22 weeks for part time programmes. Total notional hours per semester, is 750. A total of 25 notional hours is equal to 01 credit. Total number of credits per semester is 30.

Bachelor of Education in Technology degree is a 3 year full time course.

Course Structure:

Module Code:

XX10501	-	XX	-	Department offering the module
		1	-	Semester
		05	-	Number of Credits
		01	-	Serial number of the module

Module Type:

The degree consists of Compulsory (C) modules, Elective (E) modules and Optional (O) modules. Core compulsory modules and Elective modules designated as GPA modules will be used to calculate the grade point averages.

C	-	Compulsory
E	-	Elective
O	-	Optional
G	-	GPA
NG	-	Non GPA

Bachelor of Education in Technology (B.Ed. Tech.) - Technology Component

Bachelor of Education in Technology Degree is conducted in collaboration with all other technology departments in the university as this degree course consists of 50% of technology component. Technology component is delivered by the respective departments on the request of the Department of Education and Training. At the registration, B.Ed.Tech. students should select their technology area with reference to the technology areas available in the university.

Once the technology area is selected, students are asked to join the technology students those who are following the respective technology degree in the parallel batch. B.Ed.Tech. students should follow the technology modules, as specified in the technology degree curricula, during the first and half years of the degree course.

The following Technology areas are available in the university

- Information and communication Technology
 - Software Technology
 - Network Technology
 - Multimedia & Web Technology
- Education in English Language Teaching
- Industrial Management Technology
- Manufacturing Technology
- Mechatronics Technology
- Building Services Technology
- Quantity Surveying Technology
- Food Process Technology
- Film & Television Technology
- Construction Technology & Resource Management

B.Ed.Tech. students should earn 90 credits through the technology modules before they come to the educational modules in the final one and half years of the degree course. The following educational modules are offered to the B.Ed.Tech students including the Internship, Industrial Training and Final year project.

Educational Component

Module Code	Module Title	Type	Credits	Year I		Year II		Year III	
				S-I	S-II	S-I	S-II	S-I	S-II
ET40601	Philosophical & Social Foundations in Education	C/G	06				√		
ET40802	Instructional Media	C/G	08				√		
ET40803	Teaching - Learning Methods I	C/G	08				√		
ET40804	Assessment of Learning	C/G	08				√		
ET40605	Educational Psychology	C/G	06				√		
ET50801	Teaching - Learning Methods II	C/G	08					√	
ET50602	Curriculum Development, Implementation & Evaluation	C/G	06					√	
ET50803	Research Methods in Education	C/G	08					√	
ET50404	Theme Papers	C/G	04					√	
ET60401	Professional Development	C/G	04						√
ET60602	Educational Management	C/G	06						√
ET60803	Internship	C/G	08						√
ET61004	Final Project	C/G	10						√

Work Based / Industrial Training:

Sixth semester of the study programme is dedicated to this component of the degree. Propose of this module is to enable students to apply competencies required through the academic programme to workplace experiences.

Students studying the degree in full time mode will be placed in various industrial establishments/worksites related to their fields of studying for a period of six months through National Apprentice and Industrial Training Authority (NAITA) under undergraduate in plant training scheme.

Those who are studying in the part time mode are required to undertake work based training in their places of work, under supervise of a senior officer. Work undertaken during this period should be different from the part time work which he/she is suppose to the in his/her job.

Final Year Project:

This module is given in the sixth semester. This is a group project, which provides opportunity for the students to enhance their ability in problem solving, team working and leadership using the competencies acquired throughout the undergraduate career through the implementation of a group project.

To successfully complete this module, students are expected to design and implement a challenging engineering project applying realistic constraints and engineering standards within a given timeframe and present technical ideas in written and oral form effectively.

Course Assessment System:

The performance of each student in each module will be evaluated by continuous assessments and a semester-end examination.

The weightings assigned for the continuous assessment component and the semester - end examination of a module will be as follows.

- * Continuous Assessment 40% - 70%
- * Semester - End Examination 60% - 30%

- The continuous assessment may consist of assignments, quizzes, laboratory work, practical, tutorials, demonstrations, presentations, projects, oral tests and mid semester tests. Weightings of each of these components used in the determination of the final grade for each module should be clearly conveyed in writing to the students at the commencement of each module along with the outline of the module.

- The fulltime and part-time students should maintain 80% and 60% of attendance respectively and satisfy the requirements specified in each module descriptor to be eligible to sit for the semester-end examination.

- All Candidates should obtain at least 30% of the marks allocated for continuous assessment to get qualified to sit for the semester - end examination.

Grading System and Computation of Grade Point Average (GPA):

A letter grade shall be awarded to each module. The cut-off marks for each grade and the corresponding grade points are given below.

Grades	Marks	Grade Point
A+	90 or above	4.00
A	80 – 89	3.70
B+	70 – 79	3.30
B	60 – 69	3.00
C+	50 – 59	2.70
C	40 – 49	2.00
D	30 – 39	1.00
E	01 – 29	0.00
F	0	0.00

1. Grade D or above is required to earn credits for a module.
2. A minimum 30% should be obtained from continuous assessment for eligibility to sit for the end semester exam.
3. A minimum requirement of 30% should be obtained from the semester - end Examination in order to obtain a grade D or above for a module.
4. A student satisfying continuous assessment requirements and getting between 1 – 29 marks for the semester end examination receives a symbol as E(ET) while a student getting 0 for the semester end examination receives symbol F(ET). A student satisfying semester end examination requirements and getting between 1 and 29 marks for the continuous assessment receives a symbol as E(CA) a student getting 0 for the continuous assessment receives symbol as F(ET). A student getting between 1 and 29 marks for both the semester end examination & the continuous assessment receives the Grade E while a student getting 0 for both the semester end examination & continuous assessment receives the Grade F. A student must repeat the part of the module examination/complete module examination having Grade E or F & must improve up to Grade D or C. The modules having Grade D are allowed to repeat only when the Semester Grade Point Average (SGPA) of a particular semester is less than 2.00. By repeating only the semester end examination/continuous assessment or both, the Grades F, E or D can be improved only up to a C grade and considered for calculating Grade Point Average (GPA). Repeating continuous assessment or semester end examination is considered as repeating the whole module.

Academic Concession:

Academic Concession may be granted to a student with the approval of the Faculty Board, in the event that a student is unable to sit for the semester-end examination due to illness or other compelling reason. In such instances the student must notify the Dean of the faculty within 48 hours of the cause. Further, the student should make an appeal with supporting documents to the Dean for an Academic Concession within one week from the date of the examination. The continuous assessment component can be carried forward to the next examination as the first attempt.

Semester Grade Point Average (SGPA):

The calculation of the Semester Grade Point Average will be based on the Grade Points earned for all modules registered in a semester (except those awarded with academic concession) weighted according to number of credits. The SGPA is rounded to the nearest second decimal place. The SGPA is reported on transcripts and Statement of Results that may be issued for each semester.

The formula for calculating SGPA is given below.

$$\text{Semester GPA (SGPA)} = \frac{\sum (\text{Number of Credits for a semester module} \times \text{Grade point obtained for the module})}{\text{Total number of credits for the Semester}}$$

Total number of credits for the Semester

Final Grade Point Average (FGPA):

The Final Grade Point Average is the absolute academic standing of the student calculated on the basis of SGPA. The FGPA will be calculated using the following formula.

$$\text{Final GPA (FGPA)} = \frac{\Sigma (\text{Semester GPA})}{\text{Number of Semesters}}$$

Unsatisfactory Standing on Academic Performance:

If the student's SGPA falls between 1.99 and 1.50 the student will be placed on Academic Warning.

A student who falls into one of the following categories of the SGPA will not be permitted to register for a new module until the SGPA is upgraded to 2.00 or more.

- i. SGPA < 1.50 in any two semesters
- ii. SGPA < 1.50 in any semester and $1.50 \leq \text{SGPA} < 2.00$ in any two semesters
- iii. $1.50 \leq \text{SGPA} < 2.00$ in any three semesters

Graduation Requirements:

Credit Requirements:

A student should satisfy the following requirements in order to be admitted to the Bachelor of Education in Technology.

- (i) A minimum total of 180 credits from modules specified
- (ii) A minimum Final Grade Point Average (FGPA) of 2.00
- (iii) Any other mandatory requirement specified by the Academic Council

Key to Final Results (FGPA – Final Grade Point Average):

FGPA

3.7 or Above
3.30 – 3.69
2.70 – 3.29
2.00 – 2.69
Below 2.00

Final Results

First Class
Second Upper
Second Lower
Ordinary Pass
Incomplete

