

Code	Programme Name	Duration (Years)	A-Level Combination	Direct Entry Qualifications (Form VI)	Equivalent Entry Qualifications
UD076	Bachelor of Science in Agricultural Engineering and Mechanization	4	PCM, PGM	Principal level passes in Mathematics and Physics	Diploma in relevant fields of technical education (NTA6) such as Diploma in Civil Engineering, Mechanical Engineering, Electrical Engineering, Water Resources and Mining Engineering with GPA not less than 3.5 or B grade or distinction or B grade for FTC
UD078	Bachelor of Science in Agricultural and Natural Resources Economics and Business	3	ECA, EGM, HGE	Two Principal level passes in Economics and either Commerce, Agriculture, Geography and Mathematics	Diploma in relevant fields with GPA not less than 3.5 or B grade or distinction
UD083	Bachelor of Science in Crop Science and Technology	3	PCB, CBG, CBA, CBN	Two principal level passes in Agriculture and Biology, Chemistry, Geography, Physics, or Nutrition	Diploma in Crop Production, Horticulture, Home Economics and Nutrition with a GPA of not less than 3.5 approved by the UDSM Senate.
<b>5. MBEYA COLLEGE OF HEALTH AND ALLIED SCIENCES (UDSM-MCHAS)</b>					
UD080	Doctor of Medicine	5	PCB	Three principal passes in Physics, Chemistry, and Biology with a minimum of D grade	Diploma in Clinical Medicine with Second Class OR Credit OR B Average. Principal passes at any grade in Physics/Mathematics, Chemistry or Biology at "A" level will be an added advantage
UD098	Doctor of Dental Surgery	5	PCB	Three principal passes in Physics, Chemistry, and Biology with a minimum of D grade	Diploma in Dental Health Sciences with a GPA not less than 3.5 from an Institution approved by UDSM Senate
<b>6. INSTITUTE OF MARINE SCIENCES (IMS)</b>					
UD087	Bachelor of Science in Marine Sciences	3	PCB, CBG, CBN, CBA	Two principal level passes in Biology and Chemistry, Agriculture, Physics, Geography and Mathematics	Diploma in Fisheries, Aquaculture, Agriculture, Education (with science subjects), Maritime, and Forestry with a GPA of not less than 3.5 approved by the UDSM Senate.
<b>7. SCHOOL OF MINES AND GEOSCIENCES (SoMG)</b>					
UD026	Bachelor of Science in Engineering Geology	4	PCM, PGM	Principal level passes in Mathematics and Physics. Those without at least a Subsidiary Pass in Chemistry must have a Credit at O-Level. Requirements: Physical fitness	Diploma in Geological Sciences with GPA not less than 3.5 or B grade or distinction. Specific Requirements: Physical fitness
UD028	Bachelor of Science in Geology	3	PCM	Principal level passes in Mathematics, Physics and chemistry. Specific Requirements: Physical fitness	Diploma in Geological Sciences with GPA not less than 3.5 or B grade or distinction. Specific Requirements: Physical fitness

UD033	Bachelor of Science with Geology	4	PCB, PCM, PGM, EGM, CBG, CBA, CBN	Two Principal level passes from the following subjects: Physics, Chemistry, Biology, Geography and Mathematics. Candidates without at least a Subsidiary pass in Chemistry must have a Credit pass at O-Level. Specific Requirements: Physical fitness	Diploma in Geological Sciences with GPA not less than 3.5 or B grade or distinction. Specific Requirements: Physical fitness
UD059	Bachelor of Science in Petroleum Geology	4	PCM, PCB, PGM	Principal level passes in Mathematics, Physics and Chemistry. Specific Requirements: Physical fitness	Diploma in Geological sciences with GPA not less than 3.5 or B grade or distinction. Specific Requirements: Physical fitness
UD092	Bachelor of Science in Geophysics	4	PCM, PGM	Principal level passes in Mathematics and Physics	Diploma in Physical Sciences, Mineral and Water Resources, and related fields with a GPA NOT less than 3.5 from recognised Colleges as approved by the UDSM senate
UD093	Bachelor of Science in Geology and Geothermal Resources	4	PCM	Principal level passes in Physics Chemistry and Mathematics	Diploma in Geological sciences of at least an upper second class award (GPA of at least 3.5 out of 5) from a recognized colleges as approved by the UDSM Senate
UD016	Bachelor of Science in Mining Engineering	4	PCM, PGM, PGM	Principal level passes in Mathematics and Physics. Those without at least a Subsidiary pass in Chemistry must have a Credit at O-Level	Diploma/FTC in Sciences or Mining Engineering, with a Credit Pass in Mathematics and an overall average of B with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD057	Bachelor of Science in Metallurgy and Mineral Processing Engineering	4	PCM, PGM, PGM	Principal level passes in Mathematics and Physics. Those without at least a subsidiary in Chemistry must have a credit pass in Chemistry at O-Level	Diploma or FTC in Mineral Processing, with a Credit Pass in Mathematics and with GPA not less than 3.5 or B grade or distinction or B grade for FTC
UD060	Bachelor of Science in Petroleum Engineering	4	PCM, PGM, PGM	Principal level passes in Mathematics and Physics and at least a Subsidiary level pass in Chemistry	Diploma/FTC in Petroleum Engineering and Credit pass in Mathematics with a Credit pass in Mathematics and with GPA not less than 3.5 or B grade or distinction or B grade for FTC
<b>SCHOOL OF AQUATIC SCIENCES AND FISHERIES (SoAF)</b>					
UD065	Bachelor of Science in Aquatic Sciences and Fisheries	3	PCB, CBG, CBA, CBN	Two Principal level passes in Science subjects one of which must be in Biological sciences	Diploma in Biological Sciences with GPA not less than 3.5 or B grade or distinction or B grade for FTC

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## Specific Entry Requirements for Undergraduate Degree Programmes with A-Level Combinations and Equivalent Entry Qualifications

# 2022/2023

## SCIENCE PROGRAMMES

Code	Programme Name	Duration (Years)	A-Level Combination	Direct Entry Qualifications (Form VI)	Equivalent Entry Qualifications
<b>1. COLLEGE OF ENGINEERING AND TECHNOLOGY (CoET)</b>					
UD013	Bachelor of Science in Chemical and Processing Engineering	4	PCM, PGM,	Principal level passes in Mathematics and Physics. Those without at least a subsidiary pass in Chemistry must have a Credit at O-Level	Diploma/FTC in Sciences or Laboratory Technology, with a Credit Pass in Mathematics and an overall average of B with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD015	Bachelor of Science in Electrical Engineering	4	PCM, PGM,	Principal level passes in Mathematics and Physics. Those without at least a Subsidiary pass in Chemistry must have a Credit at O-Level	Diploma in Sciences/FTC in Electrical Engineering or Electronics, with a Credit Pass in Mathematics and an overall average of B with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD017	Bachelor of Science in Textile Engineering	4	PCM, PGM,	Principal level passes in Mathematics and Physics. Those without at least a Subsidiary pass in Chemistry must have a Credit at O-Level	Diploma/FTC in Sciences, Laboratory Technology, with a Credit Pass in Mathematics and an overall average of B with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD018	Bachelor of Science in Textile Design and Technology	4	PCM, PGM, PCB	Any two Principal level passes in Science or Arts subjects including Fine Arts. Candidates must have Passes in Chemistry at O-Level and Mathematics at O-Level or Basic Applied Mathematics at A-Level	Diploma/FTC in Sciences, Laboratory Technology or Architecture, with a Credit Pass in Mathematics and an overall average of B (Upper Second Class) with GPA of not less than 3.5 or B grade or distinction or B grade for FTC
UD055	Bachelor of Science in Mechanical Engineering	4	PCM, PGM,	Principal level Passes in Mathematics and Physics. Those without a Principal in Chemistry must have a Credit at O-Level	Diploma or FTC in Mechanical Engineering, Agro-mechanics, Automotive, Industrial Automations or Marine Engineering, with a Credit Pass in Mathematics and with GPA not less than 3.5 or B grade or distinction or B grade for FTC

Code	Programme Name	Duration (Years)	A-Level Combination	Direct Entry Qualifications (Form VI)	Equivalent Entry Qualifications
UD056	Bachelor of Science in Industrial Engineering	4	PCM, PGM,	Principal level Passes in Mathematics and Physics. Those without Principal in Chemistry must have a Credit at O-Level	Diploma or FTC in Mechanical Engineering, Agro-Mechanics, Automotive, Industrial Automations, Marine Engineering, with a Credit Pass in Mathematics and with GPA not less than 3.5 or B grade or distinction or B grade for FTC
UD058	Bachelor of Science in Civil Engineering	4	PCM, PGM,	Principal level passes in Mathematics and Physics. Those without at least a Subsidiary in Chemistry must have a Credit pass in Chemistry at O-Level	Diploma or FTC in Civil, Transportation, Highway or Water Resources Engineering, with a Credit Pass in Mathematics and with GPA not less than 3.5 or B grade or distinction or B grade for FTC
UD063	Bachelor of Architecture	5	PCM, PGM, CBN, CBA, CBG	Two Principal level passes in any of the following subjects: Physics, Chemistry, Biology, Mathematics, Geography or Fine Arts	Diploma in Architecture recognised by UDSM Senate with GPA not less than 3.5 or B grade or distinction or B grade for FTC
UD077	Bachelor of Science in Quantity Surveying	4	PCM, PGM	Principal level passes in Mathematics and Physics	Diploma in relevant fields of technical education (NTA 6) such as Diploma in any Engineering programme with GPA not less than 3.5 or B grade or distinction or B grade for FTC
UD079	Bachelor of Science in Geomatics	4	PCM, PGM, EGM	Principal level passes in Mathematics and either Physics, Geography, Chemistry or Computer Science. If the second Principal pass is not Physics, the candidate must have at least a Subsidiary pass in Physics	Diplomas in relevant fields including Water resources, Geomatics and Civil Engineering with GPA not less than 3.5 or B grade or distinction or B grade for FTC and at least C grade in Mathematics
<b>2. COLLEGE OF NATURAL AND APPLIED SCIENCES (CoNAS)</b>					
UD021	Bachelor of Science in Actuarial Sciences	3	PCM, PGM, EGM	Two Principal Level Passes, one of which must be in Mathematics	Diploma in Mathematical Sciences, Statistics, recognised by UDSM Senate with GPA not less than 3.5 or B grade or distinction. Must have at least a Credit in Mathematics or Statistics
UD022	Bachelor of Science in Applied Zoology	3	PCB, CBG, CBA, CBN	Two Principal level passes in Science subjects, one of which must be in Biological sciences	Diploma in Biological Sciences with at least second class with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD024	Bachelor of Science in Botanical Sciences	3	PCB, CBG, CBA, CBN	Two Principal level passes in Science subjects, one of which must be in Biological sciences	Diploma in Biological Sciences, Forestry, Agriculture, Wildlife with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD025	Bachelor of Science in Chemistry	3	PCB, CBG, CBA, CBN, PCM	Two Principal level passes in Chemistry and Biology, Physics, Mathematics or Geography	Diploma in Chemistry, Chemical Laboratory Technology, with GPA not less than 3.5 or B grade or distinction or B average for FTC

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UD029	Bachelor of Science in Microbiology	3	PCB, CBG, CBA, CBN	Two Principal level passes in Science subjects one of which must be in Biological sciences	Diploma in Biological sciences, Health and Allied Sciences with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD030	Bachelor of Science in Molecular Biology and Biotechnology	3	PCB, CBG, CBA, CBN	Two Principal level passes in Science subjects one of which must be in Biological sciences	Diploma in Biological sciences, Health and Allied Sciences with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD031	Bachelor of Science of Wildlife Science and Conservation	3	PCB, CBG, CBA, CBN	Two Principal level passes in Science subjects one of which must be in Biological sciences	Diploma in Biological Sciences, Beekeeping, Wildlife with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD032	Bachelor of Science with Education	3	PCB, PCM, PGM, EGM, CBG, CBA, CBN	Two Principal level passes in any of the following subjects: Physics, Chemistry, Mathematics, Biology, Economics and Geography	Diploma in Science subjects, Science Education, FTC, with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD061	Bachelor of Science in Petroleum Chemistry	3	CBG, CBN, CBA, PCM, PCB	Principal level passes in Chemistry and either Mathematics, Physics, Biology or Geography	Diploma in Chemistry and related fields with GPA not less than 3.5 or B grade or distinction or B grade for FTC and at least a Credit in Chemistry at O-Level
UD062	Bachelor of Science in Meteorology	3	PCM, PGM	Principal level passes in Mathematics and Physics	Diploma in Meteorology recognised by UDSM Senate with GPA not less than 3.5 or B grade or distinction
UD089	Bachelor of Science in Mathematics and Statistics	3	PCM, PGM, EGM	Two principal level passes, one of which must be in Mathematics	Diploma in Mathematics, Statistics, Economics or other relevant discipline of not less than second-class with GPA not below 3.5 and a grade in Statistics or Mathematics or Quantitative Methods of C or better, to be approved by the Senate
UD094	Bachelor of Science in Chemistry and Physics	3	PCM	Principal level passes in Chemistry and Physics in addition an applicant MUST have passes in chemistry physics and mathematics at O' Level	Diploma in Chemistry Physics and related fields of at least an upper second class award (GPA of at least 3.5 out of 5) from a recognized colleges as approved by the UDSM Senate
UD096	Bachelor of Science in Applied Microbiology and Chemistry	3	PCB, CBG, CBN	Two principal passes in Chemistry and Biology	Diploma in Biological Sciences, Nursing, Public Health, Clinical Medicine, Pharmaceutical Studies or Medical Laboratory Sciences with an average of B+ or minimum GPA of 3.5
<b>3. COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGIES (CoICT)</b>					
UD034	Bachelor of Science in Computer Science	3	PCM, PGM	Principal Level Passes in Mathematics and Physics	Diploma in Sciences, Computer Science, IT, ICT, with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD035	Bachelor of Science in Electronic Science and Communication	3	PCM, PGM	Principal level passes in Mathematics and Physics	Diploma in Sciences, Computer Science, IT, ICT, with GPA not less than 3.5 or B grade or distinction or B average for FTC

Code	Programme Name	Duration (Years)	A-Level Combination	Direct Entry Qualifications (Form VI)	Equivalent Entry Qualifications
UD036	Bachelor of Science with Computer Science	3	PCM, PGM	Principal level passes in Mathematics and Physics	Diploma in Sciences, Computer Science, IT, ICT, with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD014	Bachelor of Science in Computer Engineering and Information Technology	4	PCM, PGM	Principal level passes in Mathematics and Physics. Those without at least a Subsidiary pass in Chemistry must have a Credit at O-Level	Diploma in Sciences, ICT, Computer Science, Electronics, Laboratory Technology, with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD019	Bachelor of Science in Telecommunications Engineering	4	PCM, PGM	Principal level passes in Mathematics and Physics. Those without at least a Subsidiary Pass in Chemistry must have a Credit at O-Level	Diploma in Telecommunications, Computer Science, with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD086	Bachelor of Science in Electronics Engineering	4	PCM, PGM	Principal level passes in Mathematics and Physics. Those without at least a Subsidiary Pass in Chemistry must have a Credit at O-Level	Diploma in Information Technology, Computer Engineering, Computer Science, Electronics, Laboratory Technology, Mechanical, Electrical, Automobile, Transport, Air Craft Maintenance, Biomedical Engineering, with GPA not less than 3.5 or B grade or distinction or B average for FTC
UD090	Bachelor of Science in Business Information Technology	3	PCM, PGM, EGM	Two principal passes in the following subjects: Advanced Mathematics, Physics, Chemistry, Biology, and Economics. In addition, for applicants without Advanced Mathematics in their principal subjects must have a minimum of "C" grade in Mathematics at O-level.	Diploma/Full Technician Certificate (FTC) in Mathematics, Statistics, Economics, Computer Science, Information Technology, Computer Engineering, Electronics or Telecommunication Engineering with G.P.A not less than 3.5 or B+ grade or distinction
<b>4. COLLEGE OF AGRICULTURAL AND FOOD SCIENCES AND TECHNOLOGY (CoAF)</b>					
UD074	Bachelor of Science in Food Science and Technology	4	PCB, CBG, CBA, CBN	Two Principal level passes from Biology and any of the following subjects: Chemistry, Physics and Nutrition. Must also have passes in Biology, Chemistry, Physics and Mathematics at O- Level	Diploma in Food Science and Technology, Agriculture, Nutrition, Engineering and Technology, and related fields with GPA not less than 3.5 or B grade or distinction or B grade for FTC
UD075	Bachelor of Science in Beekeeping Science and Technology	3	PCB, CBG, CBA, CBN	Two Principal level passes from Biology and any of the following fields: Chemistry, Nutrition, Agriculture, Physics and Geography	Diploma in an appropriate field of Biological Sciences such as Beekeeping, Agriculture, Fisheries, Wildlife Management and Forestry with GPA not less than 3.5 or B grade or distinction or B grade for FTC