



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

2024/2025

SCIENCE PROGRAMMES

Code	Programme Name	Duration (Years)	A-Level Combination	Direct Entry Qualifications (Form VI)	Equivalent Entry Qualifications
1. COLLEGE OF ENGINEERING AND TECHNOLOGY (CoET)					
UD013	Bachelor of Science in Chemical and Processing Engineering	4	PCM, PGM, PMC	Principal passes in Advanced Mathematics and Physics. Those without at least a subsidiary pass in Chemistry must have a Credit at O- Level	Diploma or Full Technician Certificate (FTC) in Sciences or Laboratory Technology recognized by UDSM Senate with GPA not less than 3.5 or B+ grade. In addition, an applicant must have a minimum of "C" grade in Mathematics at O-Level.
UD015	Bachelor of Science in Electrical Engineering	4	PCM, PGM, PMC	Principal passes in Advanced 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 at O-Level with GPA not less than 3.5 or B+ or distinction or B average for FTC
UD017	Bachelor of Science in Textile Engineering	4	PCM, PGM, PMC	Principal passes in Advanced 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 recognized by UDSM Senate with GPA not less than 3.5 or average of B+ or distinction or B average for FTC and a Credit Pass in Mathematics at O-Level
UD018	Bachelor of Science in Textile Design and Technology	4	PCM, PCB, PGM, EGM, CBG, CBA, CBN, HGL, ECA HGL, HKL, KLF, HGE, KFC	Any two Principal passes in Science or Arts subjects including Fine Arts. Candidates must have credit pass (at least 'C' grade) in Chemistry and Mathematics at O-Level or Basic Applied Mathematics at A-Level	Diploma/FTC in Sciences, Laboratory Technology or Architecture, recognized by UDSM Senate with GPA not less than 3.5 or average of B+ or distinction or B average for FTC and a Credit Pass in Mathematics at O-Level

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UD076	Bachelor of Science in Agricultural Engineering and Mechanization	4	PCM, PGM, PMC	Principal passes in Advanced Mathematics and Physics. An applicant without at least a subsidiary pass in Chemistry must have a minimum of "C" at O' Level. In addition an applicant must have a minimum of D grade in Biology at O-Level	Diploma or Full Technician Certificate (FTC) in Agricultural Engineering, Civil Engineering, Mechanical Engineering, Agro- mechanization, Electrical Engineering, Water Resources Engineering, Mining Engineering and General Agricultural recognized by UDSM Senate with GPA not less than 3.5 or B+ grade. In addition, an applicant must have a minimum of "D" grade in either Mathematics, Biology, or Chemistry at O- Level.
UD078	Bachelor of Science in Agricultural and Natural Resources Economics and Business	3	ECA, EGM, HGE	Two Principal passes in Commerce, Agriculture, Geography and Advanced Mathematics	Diploma in Beekeeping, Agribusiness, Economics, Agriculture, Fisheries, Wildlife Management or Forestry recognized by UDSM Senate with GPA not less than 3.5 or B+ grade.
UD083	Bachelor of Science in Crop Science and Technology	3	PCB, CBG, CBA, CBN	Two principal passes in Agriculture, Biology, Chemistry, Geography, Physics, or Nutrition	Diploma in Agriculture, Crop Production, Horticulture, Home Economics and Nutrition recognized by UDSM Senate with a GPA not less than 3.5 or B+ grade.
5. MBEYA COLLEGE OF HEALTH AND ALLIED SCIENCES (UDSM-MCHAS)					
UD080	Doctor of Medicine	5	PCB	Three principal passes in Physics, Chemistry, and Biology with a minimum of D grade	Diploma in Clinical Medicine recognized by UDSM Senate with GPA not less than 3.5 or B+ grade.
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 recognized by UDSM Senate with GPA not less than 3.5 or B+ grade.
6. INSTITUTE OF MARINE SCIENCES (IMS)					
UD087	Bachelor of Science in Marine Sciences	3	PCB, CBG, CBN, CBA	Two principal passes, one in Biology and another in any of the following subjects: Chemistry, Agriculture, Physics, Geography and Advanced Mathematics	Diploma in Fisheries, Aquaculture, Agriculture, Education (with science subjects), Maritime, and Forestry recognized by UDSM Senate with GPA not less than 3.5 or B+ grade.
7. SCHOOL OF MINES AND GEOSCIENCES (SoMG)					
UD026	Bachelor of Science in Engineering Geology	4	PCM, PGM, PMC	Principal passes in Advanced Mathematics and Physics. Those without at least a Subsidiary Pass in Chemistry must have a Credit at O- Level. Specific Requirements: Physical fitness	Diploma or Full Technician Certificate (FTC) in Geological Sciences, recognized by UDSM Senate with GPA not less than 3.5 or B+. In addition, one must have a credit pass in Physics, Chemistry and Mathematics at O' Level. Special Requirements: Physical fitness.
UD028	Bachelor of Science in Geology	3	PCM	Principal passes in Advanced Mathematics, Physics and chemistry. Specific Requirements: Physical fitness	Diploma in Geological Sciences recognized by UDSM Senate with GPA not less than 3.5 or B+ grade or distinction. Specific Requirements: Physical fitness

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UD033	Bachelor of Science with Geology	4	PCB, PCM, PGM, EGM, CBG, CBA, CBN, PMC	Two principal level passes in any of the following subjects: Physics, Chemistry, Biology, Geography, Advanced Mathematics or Computer. An applicant without at least a subsidiary pass in Chemistry, Mathematics and Physics must have a minimum of "D" grade at O-Level.	Diploma in Geological Sciences recognized by UDSM Senate with an average of "B+" or a minimum GPA of 3.5. In addition, one must have a credit pass in Physics, Chemistry and Mathematics at O-Level.
UD059	Bachelor of Science in Petroleum Geology	4	PCM	Principal passes in Advanced Mathematics, Physics and Chemistry. Specific Requirements: Physical fitness	Diploma in Petroleum Geology or Geological sciences or related field recognized by UDSM Senate with GPA not less than 3.5 or B+ grade or distinction. In addition, one must have a credit pass in Physics, Chemistry and Mathematics at O-Level.
UD091	Bachelor of Science in Geophysics	4	PCM, PGM, PMC	Two Principal passes in Advanced Mathematics and Physics	Diploma in Geophysics or Hydrogeology or in geological related field recognized by UDSM Senate with GPA not less than 3.5 or B+ grade. In addition, one must have a credit pass in Physics, Chemistry and Mathematics at O-Level.
UD092	Bachelor of Science in Geology and Geothermal Resources	4	PCM	Principal passes in Physics Chemistry and Advanced Mathematics	Diploma in Geological Sciences recognized by UDSM Senate with an average of "B+" or a minimum GPA of 3.5. In addition, one must have a credit pass in Physics, Chemistry and Mathematics at O-Level.
UD016	Bachelor of Science in Mining Engineering	4	PCM, PGM, PMC	Two Principal passes in Advanced 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 recognized by UDSM Senate with GPA not less than 3.5 or B+ or distinction or B average for FTC. In addition one must have credit pass in Mathematics at O' level.
UD057	Bachelor of Science in Metallurgy and Mineral Processing Engineering	4	PCM, PGM, PMC	Two Principal passes in Advanced 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, recognized by UDSM Senate with a Credit Pass in Mathematics at O-Level 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	Two Principal passes in Advanced Mathematics and Physics and at least a Subsidiary pass in Chemistry	Diploma/FTC in Petroleum Engineering recognised by UDSM Senate with a GPA not less than 3.5 or B+ or distinction or B grade for FTC. In addition one must have a credit pass in mathematics at O' Level
8. SCHOOL OF AQUATIC SCIENCES AND FISHERIES (SoAF)					
UD065	Bachelor of Science in Aquatic Sciences and Fisheries	3	PCB, CBG, CBA, CBN	Two principal passes, one in Biology and one from the following subjects: Chemistry, Geography, Agriculture, Physics or Advanced Mathematics.	Diploma in Biological Sciences recognized by UDSM Senate with GPA not less than 3.5 or an average of B+

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UD055	Bachelor of Science in Mechanical Engineering	4	PCM, PGM, PMC	Principal Passes in Advanced 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 recognized by UDSM Senate with GPA not less than 3.5 or average of B+ or distinction or B average for FTC and a Credit Pass in Mathematics at O-Level
UD056	Bachelor of Science in Industrial Engineering	4	PCM, PGM, PMC	Principal Passes in Advanced 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, recognized by UDSM Senate with GPA not less than 3.5 or average of B+ or distinction or B average for FTC and a Credit Pass in Mathematics at O-Level
UD058	Bachelor of Science in Civil Engineering	4	PCM, PGM, PMC	Principal passes in Advanced 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 recognized by UDSM Senate with GPA not less than 3.5 or average of B+ or distinction or B average for FTC and a Credit Pass in Mathematics at O-Level
UD063	Bachelor of Architecture	5	PCM, PGM, CBA, CBN, CMC	Two Principal passes in any of the following subjects: Physics, Chemistry, Biology, Advanced Mathematics, Geography or Fine Arts	Diploma in Architecture recognized by UDSM Senate with GPA not less than 3.5 or average of B+ or distinction or B average for FTC
UD077	Bachelor of Science in Quantity Surveying	4	PCM, PGM, PMC	Principal passes in Advanced Mathematics and Physics	Diploma in relevant fields of technical education (NTA 6) such as Diploma in any Engineering programme recognized by UDSM Senate with GPA not less than 3.5 or B+ or distinction or B average for FTC
UD079	Bachelor of Science in Geomatics	4	PCM, PGM, EGM	Principal passes in Advanced 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 recognised by UDSM Senate with an average of "B+" or a minimum GPA of 3.5 or B grade for FTC. The grade in Mathematics in the diploma must be "C" or better.
2. COLLEGE OF NATURAL AND APPLIED SCIENCES (CoNAS)					
UD021	Bachelor of Science in Actuarial Sciences	3	PCM, PGM, EGM, PMC	Two Principal Passes, one of which must be in Advanced Mathematics	Diploma in Mathematical Sciences, Statistics, recognized 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 passes, one in Biology and another in any of the following subjects: Physics, Chemistry, Geography, or Advanced Mathematics	Diploma in Biological Sciences recognized by UDSM Senate 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 passes, one in Biology and another in any of the following subjects: Physics, Chemistry, Geography, or Advanced Mathematics	Diploma in Biological Sciences, Forestry, Agriculture, Wildlife recognized by UDSM Senate 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 passes one in Chemistry and another in any of the following subjects: Biology, Physics, Advanced Mathematics, Nutrition or Geography	Diploma in Chemistry, Chemical Laboratory Technology, recognized by UDSM Senate with GPA not less than 3.5 or B+ grade or distinction or B average for FTC
UD029	Bachelor of Science in Microbiology	3	PCB, CBG, CBA, CBN	Two principal passes, one in Biology and another in any of the following subjects: Physics, Chemistry, Geography, or Advanced Mathematics	Diploma in Biological sciences, Health and Allied Sciences recognized by UDSM Senate with GPA not less than 3.5 or B + grade or distinction or B average for FTC

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UD030	Bachelor of Science in Molecular Biology and Biotechnology	3	PCB, CBG, CBA, CBN	Two principal passes, one in Biology and another in any of the following subjects: Physics, Chemistry, Geography, or Advanced Mathematics	Diploma in Biological sciences, Nursing, Public Health, Clinical Medicine, Pharmaceutical Studies or Medical Laboratory Sciences recognized by UDSM Senate with GPA not less than 3.5 or B+ grade or distinction or B average for FTC
UD031	Bachelor of Science in Wildlife Science and Conservation	3	PCB, CBG, CBA, CBN	Two principal passes, one in Biology and another in any of the following subjects: Physics, Chemistry, Geography, or Advanced Mathematics	Diploma in Biological Sciences, Beekeeping, Wildlife recognized by UDSM Senate 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 passes in any of the following subjects: Physics, Chemistry, Advanced Mathematics, Biology, Economics and Geography	Diploma in Science subjects, Science Education recognized by UDSM Senate 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 passes in Chemistry and either Advanced Mathematics, Physics, Biology or Geography	Diploma in Chemistry and related fields recognized by UDSM Senate 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, PMC	Principal passes in Advanced Mathematics and Physics	Diploma in Meteorology recognized 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, PMC	Two principal passes one in Advanced Mathematics and another in any of the following: Economics, Geography, Commerce, Accountancy, Physics, Chemistry, Biology or Computer Science	Diploma in Mathematics, Statistics, Economics or other relevant discipline recognized by UDSM Senate with GPA not less than 3.5 or B+ and a grade of C or better in Statistics or Mathematics or Quantitative Methods
UD095	Bachelor of Science in Chemistry and Physics	3	PCM	Principal 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 recognized by UDSM Senate with GPA not less than 3.5 or B+ grade.
UD096	Bachelor of Science in Applied Microbiology and Chemistry	3	PCB, CBG, CBN, CBA	Two principal passes in Chemistry and Biology	Diploma in Biological Sciences, Nursing, Public Health, Clinical Medicine, Pharmaceutical Studies or Medical Laboratory Sciences recognized by UDSM Senate with GPA not less than 3.5 or B+ grade.
3. COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGIES (CoICT)					
UD034	Bachelor of Science in Computer Science	3	PCM, PGM, PMC	Two principal passes in Advanced Mathematics and Physics.	Diploma or NTA Level 6 or higher in Computer Science, Information Technology, Information Communication Technology or Electronic Science and Communication recognized by UDSM Senate with an average of "B+" or a minimum GPA of 3.5. In addition, an applicant must have a minimum of "C" grade in Mathematics at O-Level.

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UD035	Bachelor of Science in Electronic Science and Communication	3	PCM, PGM, PMC	Principal passes in Advanced Mathematics and Physics	Diploma or NTA Level 6 or higher in Electronics Engineering, Telecommunications Engineering, Electronics Engineering, Electronics and Telecommunications Engineering recognized by UDSM Senate with GPA not less than 3.5 or B+ grade. In addition, an applicant must have a minimum of 'C' grade in Mathematics and Physics at O-Level.
UD014	Bachelor of Science in Computer Engineering and Information Technology	4	PCM, PGM, PMC	Two principal passes in Advanced Mathematics and Physics. An applicant without at least a subsidiary pass in Chemistry must have a minimum of "C" grade at O-Level.	Diploma or NTA Level 6 or higher in ICT, Computer Science, Electronics or Laboratory Technology recognized by UDSM Senate with GPA not less than 3.5 or B+-. In addition, an applicant must have a minimum of 'C' grade in Mathematics at O-Level.
UD019	Bachelor of Science in Telecommunications Engineering	4	PCM, PGM, PMC	Two principal passes in Advanced Mathematics and Physics. An applicant without at least a subsidiary pass in Chemistry must have a minimum of "C" grade at O-Level-Llevel.	Diploma or Full Technician Certificate (FTC) in Computer Engineering, Electronics Engineering or Telecommunications Engineering recognized by UDSM Senate with GPA not less than of 3.5 or B+-. In addition, an applicant must have a minimum of "C" grade in Mathematics at O-Level.
UD086	Bachelor of Science in Electronics Engineering	4	PCM, PGM, PMC	Principal passes in Advanced Mathematics and Physics. Those without at least a Subsidiary Pass in Chemistry must have a Credit at O-Level	Diploma or NTA Level 6 or higher in Electronics Engineering, Telecommunications Engineering, Electronics Science and Communication, or Electronics and Telecommunications Engineering recognized by UDSM Senate with GPA not less than 3.5 or B+ grade. In addition an applicant must have a minimum of 'C' grade in Mathematics and Physics at O-Level
UD090	Bachelor of Science in Business Information Technology	3	PCM, PGM, EGM, PMC	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 or NTA Level 6 or higher in Mathematics, Statistics, Economics, Computer Science, Information Technology, Computer Engineering, Electronics or Telecommunication Engineering. OR Diploma in Medical field such as Assistant Medical Officer or Nursing Officer recognized by UDSM Senate with GPA not less than 3.5 or B+ grade. In addition, an applicant must have a minimum of 'D' grade in Mathematics at O-Level.
4. COLLEGE OF AGRICULTURE AND FOOD TECHNOLOGY (CoAF)					
UD074	Bachelor of Science in Food Science and Technology	4	PCB, CBG, CBA, CBN	Two Principal passes from Biology and any of the following subjects: Chemistry, Physics and Nutrition. An applicant without at least a subsidiary pass in Mathematics must have a minimum of "D" at O-Level	Diploma in Food Science and Technology, Agriculture, Nutrition, Engineering and Technology, and related fields recognized by UDSM Senate 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 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 recognized by UDSM Senate with GPA not less than 3.5 or B+ grade or distinction or B grade for FTC